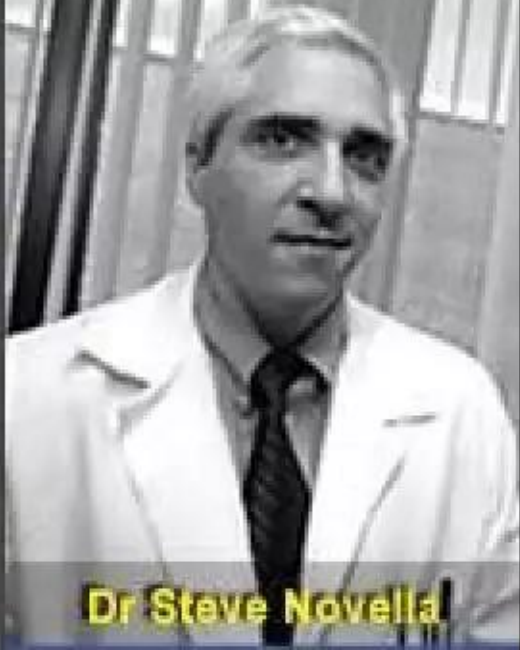


The Skeptic Zone

Show 231 - 23 Feb 2013



Dr Steve Novella

1
00:00:22,220 --> 00:00:09,100
welcome to the skeptic zone the podcast

2
00:00:30,120 --> 00:00:25,019
hello and welcome to the skeptic zone

3
00:00:32,700 --> 00:00:30,130
podcast 231 for the 23rd of March 2013

4
00:00:34,650 --> 00:00:32,710
I'm a simulated human voice standing

5
00:00:37,229 --> 00:00:34,660
inflation alright simulated human it's

6
00:00:39,390 --> 00:00:37,239
okay I'm feeling a lot better I can I

7
00:00:41,729 --> 00:00:39,400
can do the show this week are you sure

8
00:00:44,189 --> 00:00:41,739
yes I think I can manage that thank you

9
00:00:47,340 --> 00:00:44,199
thank you very much i'm almost better

10
00:00:50,069 --> 00:00:47,350
you know i'm nearly over the cold i see

11
00:00:52,590 --> 00:00:50,079
well i think you need to see a simulated

12
00:00:55,500 --> 00:00:52,600
doctor I know a homeopath that might

13
00:00:57,110 --> 00:00:55,510

help yes I know homeopaths the simulated

14

00:01:01,229 --> 00:00:57,120

doctors but it's alright I think I'll

15

00:01:03,090 --> 00:01:01,239

struggle on all right then oh thanks to

16

00:01:05,580 --> 00:01:03,100

all those own listeners who sent me fan

17

00:01:08,130 --> 00:01:05,590

mail from last week I'll just go away

18

00:01:09,960 --> 00:01:08,140

now yeah thanks thanks a lot yes it's

19

00:01:12,899 --> 00:01:09,970

the skeptic zone Richard Saunders here

20

00:01:14,550 --> 00:01:12,909

back with you again almost better almost

21

00:01:16,050 --> 00:01:14,560

been a bit of a rough week with the old

22

00:01:18,570 --> 00:01:16,060

coughs and the colds and all that sort

23

00:01:22,020 --> 00:01:18,580

of thing but never mind coming up on

24

00:01:23,940 --> 00:01:22,030

this week's show I interviewed dr. Steve

25

00:01:25,380 --> 00:01:23,950

novella from the skeptics guide to the

26
00:01:28,170 --> 00:01:25,390
universe Steve's going to tell us about

27
00:01:30,749 --> 00:01:28,180
reaching the great milestone of 400

28
00:01:33,030 --> 00:01:30,759
episodes and other background bits and

29
00:01:35,760 --> 00:01:33,040
pieces with the skeptics guide to the

30
00:01:37,440 --> 00:01:35,770
universe after that it's a week in

31
00:01:39,300 --> 00:01:37,450
science with our good friend dr. Paul

32
00:01:44,300 --> 00:01:39,310
Willis from the Royal Institution in

33
00:01:47,130 --> 00:01:44,310
Adelaide are I a u.s. org dot a you and

34
00:01:50,789 --> 00:01:47,140
then we have Brian Dunning with his

35
00:01:53,459 --> 00:01:50,799
latest episode of in fact the video

36
00:01:57,300 --> 00:01:53,469
series well the audio is quite good too

37
00:02:01,319 --> 00:01:57,310
and Brian looks at genetically modified

38
00:02:05,010 --> 00:02:01,329

food GM food frankenstein food it's been

39

00:02:06,660 --> 00:02:05,020

called coming up with Brian Dunning and

40

00:02:10,529 --> 00:02:06,670

then to wrap up the show we have a guest

41

00:02:13,860 --> 00:02:10,539

editorial from Benjamin Radford Benjamin

42

00:02:17,880 --> 00:02:13,870

Radford and his comments and thoughts on

43

00:02:20,910 --> 00:02:17,890

astral projection leaving the body

44

00:02:24,330 --> 00:02:20,920

floating around and coming back and well

45

00:02:26,039 --> 00:02:24,340

that's the claim anyway now thank you to

46

00:02:27,390 --> 00:02:26,049

all the listeners who wrote to me in the

47

00:02:30,060 --> 00:02:27,400

course of the week saying how much they

48

00:02:33,790 --> 00:02:30,070

enjoyed the last episode the on the spot

49

00:02:35,530 --> 00:02:33,800

the field reporting from the water

50

00:02:38,350 --> 00:02:35,540

lining tests with skeptics and water

51
00:02:39,760 --> 00:02:38,360
diviners I must admit I really enjoyed

52
00:02:43,240 --> 00:02:39,770
making the episode and certainly I

53
00:02:45,660 --> 00:02:43,250
enjoyed being there on the spot doing

54
00:02:49,120 --> 00:02:45,670
the interviews and a big shout out to

55
00:02:51,790 --> 00:02:49,130
ron Proctor who is the production

56
00:02:54,850 --> 00:02:51,800
coordinator at the odd planetarium Weber

57
00:02:56,500 --> 00:02:54,860
State University in Utah and runners

58
00:02:59,110 --> 00:02:56,510
kindly invited me to tour his

59
00:03:02,830 --> 00:02:59,120
planetarium if I ever get to Utah run if

60
00:03:05,470 --> 00:03:02,840
I ever do i will now those people in

61
00:03:08,440 --> 00:03:05,480
sydney still have time to grab your

62
00:03:11,020 --> 00:03:08,450
tickets to see Shawn Faircloth on the

63
00:03:15,070 --> 00:03:11,030

twenty-fourth of March at the Sydney

64

00:03:16,510 --> 00:03:15,080

Opera House now the best way to grab

65

00:03:18,760 --> 00:03:16,520

your tickets and find out more

66

00:03:20,620 --> 00:03:18,770

information is simply Google Shawn fair

67

00:03:23,860 --> 00:03:20,630

cloths in the Opera House or go to

68

00:03:25,660 --> 00:03:23,870

Sydney Opera House calm and right on the

69

00:03:30,220 --> 00:03:25,670

front page at the moment our details

70

00:03:33,070 --> 00:03:30,230

about that upcoming talk now full listen

71

00:03:35,710 --> 00:03:33,080

is in Norway in Oslo I'm delighted to

72

00:03:39,340 --> 00:03:35,720

say that I've been asked to appear at

73

00:03:42,610 --> 00:03:39,350

skeptics in the pub on the 6th of April

74

00:03:45,130 --> 00:03:42,620

the sixth of April Norway Oslo skeptics

75

00:03:48,010 --> 00:03:45,140

in the pub more details about that

76
00:03:49,750 --> 00:03:48,020
coming up in the next few weeks although

77
00:03:52,690 --> 00:03:49,760
if you are living in Oslo I'm sure you

78
00:03:54,900 --> 00:03:52,700
know how to get to the the various

79
00:03:57,370 --> 00:03:54,910
information about skeptics in the pub

80
00:03:59,740 --> 00:03:57,380
I'm also delighted to say that i'll be

81
00:04:02,830 --> 00:03:59,750
speaking in dublin a few days a few

82
00:04:05,920 --> 00:04:02,840
nights later on haven't quite nailed the

83
00:04:08,680 --> 00:04:05,930
date down just yet but keep your eyes

84
00:04:11,140 --> 00:04:08,690
open run to the internet if you're in

85
00:04:13,600 --> 00:04:11,150
Dublin ask your local skeptics I'm sure

86
00:04:17,890 --> 00:04:13,610
they'll be able to fill you in and after

87
00:04:19,630 --> 00:04:17,900
that i'll be at QED in Manchester let's

88
00:04:22,840 --> 00:04:19,640

see when do I get to sleep I'm not sure

89

00:04:25,090 --> 00:04:22,850

because after that after QED of course

90

00:04:27,700 --> 00:04:25,100

i'm off to the wonderful science

91

00:04:29,800 --> 00:04:27,710

festival in Alma look in the Czech

92

00:04:32,100 --> 00:04:29,810

Republic and that's going from the

93

00:04:36,340 --> 00:04:32,110

sixteenth to the twenty first of April a

94

00:04:39,610 --> 00:04:36,350

fo dot C Z is the website that i

95

00:04:42,540 --> 00:04:39,620

encourage you to visit oh there's even a

96

00:04:44,980 --> 00:04:42,550

picture of me science will meet myth

97

00:04:46,900 --> 00:04:44,990

richardsaunders will participate it says

98

00:04:47,679 --> 00:04:46,910

well I hope so I'm going to be

99

00:04:50,469 --> 00:04:47,689

introducing

100

00:04:52,239 --> 00:04:50,479

some of our Richard Dawkins videos the

101
00:04:54,459 --> 00:04:52,249
enemies of reasons I'm very much looking

102
00:04:56,379 --> 00:04:54,469
forward to that what an honor also very

103
00:05:00,069 --> 00:04:56,389
honored to be introducing here be

104
00:05:01,869 --> 00:05:00,079
dragons by Brian Dunning i'll also be

105
00:05:05,139 --> 00:05:01,879
judging some of the international films

106
00:05:07,809 --> 00:05:05,149
giving origami lessons and doing a water

107
00:05:11,199 --> 00:05:07,819
divining test as much as I can possibly

108
00:05:14,199 --> 00:05:11,209
pack in and very very happy to be a

109
00:05:17,319 --> 00:05:14,209
guest at this wonderful festival afo the

110
00:05:23,739 --> 00:05:17,329
48 International Festival of science

111
00:05:26,350 --> 00:05:23,749
documentary films please visit WWE for

112
00:05:28,479 --> 00:05:26,360
more information and if you're in the

113
00:05:30,579 --> 00:05:28,489

Czech Republic know if you're in Germany

114

00:05:33,029 --> 00:05:30,589

now let's just face it if you're

115

00:05:35,019 --> 00:05:33,039

anywhere in Europe try to come along

116

00:05:36,609 --> 00:05:35,029

well I don't think I've done so much

117

00:05:39,639 --> 00:05:36,619

talking in the last week and my voice is

118

00:05:41,379 --> 00:05:39,649

already beginning to um yeah it's just

119

00:05:44,079 --> 00:05:41,389

on the edge I better be careful i have

120

00:05:46,329 --> 00:05:44,089

to be nice and nice and wealth on my big

121

00:05:48,729 --> 00:05:46,339

trips coming up so I'm going to sit back

122

00:05:50,919 --> 00:05:48,739

Wow exhale run to the fridge no one run

123

00:05:54,069 --> 00:05:50,929

to the fridge i'll run to um I'll renter

124

00:05:56,709 --> 00:05:54,079

the the kettle mmm chicken soup that's

125

00:05:59,979 --> 00:05:56,719

the way not homeopathic just normal

126

00:06:18,190 --> 00:05:59,989

chicken soup sip some of that while we

127

00:06:24,500 --> 00:06:21,710

and joining me now on the line from the

128

00:06:26,570 --> 00:06:24,510

beautiful east coast of the United

129

00:06:28,940 --> 00:06:26,580

States up in New England dr. Steve

130

00:06:31,430 --> 00:06:28,950

novella hello Steve hey Richard how you

131

00:06:33,170 --> 00:06:31,440

doing not too bad Steve but you know

132

00:06:34,790 --> 00:06:33,180

sometimes I wish you were my next-door

133

00:06:37,130 --> 00:06:34,800

neighbor so I can knock on your door and

134

00:06:39,590 --> 00:06:37,140

say Steve I've got a slight cough and a

135

00:06:41,390 --> 00:06:39,600

cold and what can you recommend for me

136

00:06:43,850 --> 00:06:41,400

but but I'm on the mend I'm not doing so

137

00:06:46,520 --> 00:06:43,860

bad well you can always scape me if you

138

00:06:48,410 --> 00:06:46,530

have any medical questions I wish I'd

139

00:06:50,270 --> 00:06:48,420

known that a week ago and all right

140

00:06:52,610 --> 00:06:50,280

we'll talk offline we'll talk of life

141

00:06:54,350 --> 00:06:52,620

Steve look let me congratulate you on

142

00:06:57,800 --> 00:06:54,360

behalf of all the skeptics on listeners

143

00:06:59,060 --> 00:06:57,810

who I know many of whom are great fans

144

00:07:02,780 --> 00:06:59,070

of the skeptics guide to the universe

145

00:07:05,000 --> 00:07:02,790

for 400 episodes now that's thank you

146

00:07:09,590 --> 00:07:05,010

that's quite an achievement in anybody's

147

00:07:11,810 --> 00:07:09,600

book yeah it's we're pretty happy that

148

00:07:14,060 --> 00:07:11,820

we survived for this long you know would

149

00:07:16,240 --> 00:07:14,070

have been unbelievable eight years ago

150

00:07:18,740 --> 00:07:16,250

to think that we would have cranked out

151

00:07:21,440 --> 00:07:18,750

400 episodes just seems completely

152

00:07:24,380 --> 00:07:21,450

daunting but I guess it's just a matter

153

00:07:27,050 --> 00:07:24,390

of our perseverance and consistency you

154

00:07:29,060 --> 00:07:27,060

know I think you've hit the two key

155

00:07:32,480 --> 00:07:29,070

aspects of doing a podcast and certainly

156

00:07:34,310 --> 00:07:32,490

crosses my mind and we're in the same

157

00:07:36,130 --> 00:07:34,320

situation I guess we both produce the

158

00:07:38,690 --> 00:07:36,140

show and we both know that every week

159

00:07:40,610 --> 00:07:38,700

there needs to be a show come out and I

160

00:07:43,700 --> 00:07:40,620

guess it really does teach you some

161

00:07:46,490 --> 00:07:43,710

discipline yeah it's you know absolutely

162

00:07:48,890 --> 00:07:46,500

it's it's a job unto itself and you have

163

00:07:50,690 --> 00:07:48,900

to you have to as you say be disciplined

164

00:07:52,310 --> 00:07:50,700

you have to pitch but gotta be part of

165

00:07:54,080 --> 00:07:52,320

your schedule you can't just do it when

166

00:07:57,520 --> 00:07:54,090

you have time somewhere it's got to be

167

00:07:59,900 --> 00:07:57,530

absolutely built into your schedule and

168

00:08:03,080 --> 00:07:59,910

our shows are very different of course

169

00:08:05,240 --> 00:08:03,090

we're miners varies from interviews to

170

00:08:07,700 --> 00:08:05,250

field reports to do items and things

171

00:08:09,280 --> 00:08:07,710

yours is really based on the fact that

172

00:08:12,440 --> 00:08:09,290

the five of you can get together

173

00:08:14,360 --> 00:08:12,450

wherever possible sometimes one or two

174

00:08:17,420 --> 00:08:14,370

of you have to duck out for whatever

175

00:08:19,400 --> 00:08:17,430

reason and discuss skeptical and

176

00:08:21,350 --> 00:08:19,410

scientific issues of the day which also

177

00:08:23,330 --> 00:08:21,360

means that your team have to be somewhat

178

00:08:25,010 --> 00:08:23,340

disciplined to

179

00:08:27,950 --> 00:08:25,020

yeah I mean sometimes takes a little

180

00:08:29,330 --> 00:08:27,960

cracking of the whip to keep keep

181

00:08:31,159 --> 00:08:29,340

pushing it forward there's always that

182

00:08:32,719 --> 00:08:31,169

there always has to be for any project

183

00:08:35,180 --> 00:08:32,729

I've come to believe there's got to be

184

00:08:38,659 --> 00:08:35,190

one person that's totally uncompromising

185

00:08:40,579 --> 00:08:38,669

and makes it happen no matter what but I

186

00:08:42,350 --> 00:08:40,589

have a good crew they work really hard

187

00:08:45,410 --> 00:08:42,360

they're there every week they there they

188

00:08:48,920 --> 00:08:45,420

prep their items they always come with a

189

00:08:50,600 --> 00:08:48,930

good attitude and the the we enjoy being

190

00:08:52,970 --> 00:08:50,610

together on the show you know it's a lot

191

00:08:54,800 --> 00:08:52,980

of fun the best stuff of course is the

192

00:08:56,990 --> 00:08:54,810

stuff that happens offline this the

193

00:08:59,570 --> 00:08:57,000

things that when we're chatting or we go

194

00:09:01,370 --> 00:08:59,580

off script to the to a little bit too

195

00:09:03,890 --> 00:09:01,380

much and it's stuff that really can't

196

00:09:06,920 --> 00:09:03,900

make it into the show itself but it's

197

00:09:08,630 --> 00:09:06,930

those tend to be the funniest moments

198

00:09:10,400 --> 00:09:08,640

but that's what you know that's what

199

00:09:13,370 --> 00:09:10,410

keeps our spirits up and keeps it keeps

200

00:09:14,960 --> 00:09:13,380

us going oh I think that's that's a

201

00:09:17,630 --> 00:09:14,970

great attitude to have it and I know

202

00:09:19,579 --> 00:09:17,640

because I've been of course very lucky

203

00:09:21,380 --> 00:09:19,589

and honored to be a guest wrote from

204

00:09:23,060 --> 00:09:21,390

time to time I know that when we're

205

00:09:25,070 --> 00:09:23,070

recording some episodes there's a lot of

206

00:09:26,810 --> 00:09:25,080

laughter and chatting and things that

207

00:09:29,210 --> 00:09:26,820

you can't use the go on behind the

208

00:09:31,640 --> 00:09:29,220

scenes yeah you've seen how the sausage

209

00:09:33,980 --> 00:09:31,650

is made it rain I have and I've also

210

00:09:36,350 --> 00:09:33,990

been privy to a skeptic's guide to the

211

00:09:39,769 --> 00:09:36,360

universe meeting at I think this is the

212

00:09:42,019 --> 00:09:39,779

last time where we were in a room trying

213

00:09:43,070 --> 00:09:42,029

to nut out the the live show and and

214

00:09:45,079 --> 00:09:43,080

that could be quite an interesting

215

00:09:47,030 --> 00:09:45,089

experience I think listeners of your

216

00:09:49,370 --> 00:09:47,040

show would probably pay tickets to be in

217

00:09:52,790 --> 00:09:49,380

that room yeah we're just brainstorming

218

00:09:54,250 --> 00:09:52,800

what to talk about yeah yeah yeah it's

219

00:09:56,510 --> 00:09:54,260

interesting you know it's a process

220

00:10:00,110 --> 00:09:56,520

obviously we've done it quite a few

221

00:10:01,990 --> 00:10:00,120

times so we've got it down pretty well

222

00:10:05,090 --> 00:10:02,000

again everybody sort of knows their role

223

00:10:06,769 --> 00:10:05,100

on the show but it's all it's pretty

224

00:10:10,250 --> 00:10:06,779

even I mean anybody could do anything

225

00:10:12,470 --> 00:10:10,260

really is the interesting thing the you

226

00:10:14,960 --> 00:10:12,480

know Jay and Bob and Rebecca and Evan

227

00:10:17,300 --> 00:10:14,970

have the things that they're that their

228

00:10:19,250 --> 00:10:17,310

specialties that they're specialists in

229

00:10:22,310 --> 00:10:19,260

in terms of the kind of content they

230

00:10:23,990 --> 00:10:22,320

like to produce but really anybody any

231

00:10:26,210 --> 00:10:24,000

of them could talk about anything and I

232

00:10:27,980 --> 00:10:26,220

particularly enjoy the topics that I

233

00:10:29,360 --> 00:10:27,990

assigned to everybody where it's okay

234

00:10:31,400 --> 00:10:29,370

everyone's got to read up on this guy

235

00:10:34,490 --> 00:10:31,410

wanted I want this to be a five-way

236

00:10:36,809 --> 00:10:34,500

discussion now not one person necessary

237

00:10:39,329 --> 00:10:36,819

to necessarily taking the lead

238

00:10:41,929 --> 00:10:39,339

right and I certainly remember that when

239

00:10:44,039 --> 00:10:41,939

I was involved that you gave me little

240

00:10:45,989 --> 00:10:44,049

tasks and things that you wanted me to

241

00:10:47,729 --> 00:10:45,999

cover on the live show and I'll just

242

00:10:49,679 --> 00:10:47,739

just reaching back into my memory now I

243

00:10:54,389 --> 00:10:49,689

think it was partly to do with the the

244

00:10:56,099 --> 00:10:54,399

the fake bomb detector kits yeah yeah at

245

00:10:58,710 --> 00:10:56,109

the time which is a terrible story and

246

00:11:00,689 --> 00:10:58,720

also the moon's the number of moons in

247

00:11:03,299 --> 00:11:00,699

the solar system for some reason i

248

00:11:05,669 --> 00:11:03,309

remember well we blew toe had two and

249

00:11:08,669 --> 00:11:05,679

new moons and we've sort of chatting

250

00:11:10,169 --> 00:11:08,679

about moons in general yeah right so it

251
00:11:12,029 --> 00:11:10,179
really is a mixed bag any and everything

252
00:11:13,079 --> 00:11:12,039
and anything can come up on the skeptics

253
00:11:15,539 --> 00:11:13,089
guide to the universe and I suppose

254
00:11:17,519 --> 00:11:15,549
that's part of the appeal part of the

255
00:11:19,019 --> 00:11:17,529
success of the show us from week to week

256
00:11:20,849 --> 00:11:19,029
listeners are never quite sure what

257
00:11:22,919 --> 00:11:20,859
they're going to get but in the way of

258
00:11:25,259 --> 00:11:22,929
topics yeah there's really only one

259
00:11:28,619 --> 00:11:25,269
criterion and that is I have to find it

260
00:11:30,389 --> 00:11:28,629
interesting that's if I if I think I

261
00:11:31,769 --> 00:11:30,399
would enjoy hearing about it or talking

262
00:11:34,319 --> 00:11:31,779
about it and I think it would be fun

263
00:11:37,169 --> 00:11:34,329

then that that's the absolute minimum

264

00:11:39,749 --> 00:11:37,179

you know criterion then on top of that

265

00:11:41,779 --> 00:11:39,759

you know there is there are parameters

266

00:11:44,969 --> 00:11:41,789

in terms of what topics we will cover

267

00:11:46,679 --> 00:11:44,979

you know we try to stay away from things

268

00:11:48,689 --> 00:11:46,689

that are like purely political for

269

00:11:50,249 --> 00:11:48,699

example there has to be I guess the

270

00:11:53,579 --> 00:11:50,259

other the other criterion to be there's

271

00:11:57,359 --> 00:11:53,589

got to just be some angle that is

272

00:11:59,099 --> 00:11:57,369

science or critical thinking and that's

273

00:12:01,289 --> 00:11:59,109

it and sometimes like Bob or somebody

274

00:12:02,969 --> 00:12:01,299

will pitch a story to me I'm like okay

275

00:12:05,969 --> 00:12:02,979

so what's the scientific angle there

276

00:12:07,319 --> 00:12:05,979

what yr elicitors interested in that you

277

00:12:09,239 --> 00:12:07,329

know what are we going to talk about

278

00:12:11,639 --> 00:12:09,249

what you know how are we going to delve

279

00:12:13,439 --> 00:12:11,649

deep into that and if they can't answer

280

00:12:15,539 --> 00:12:13,449

that question or I can't think of what

281

00:12:16,739 --> 00:12:15,549

the answer is then we don't talk about

282

00:12:19,739 --> 00:12:16,749

it you know even though it might be

283

00:12:22,649 --> 00:12:19,749

something that may be interesting for

284

00:12:25,309 --> 00:12:22,659

other reasons I think that you and I

285

00:12:27,419 --> 00:12:25,319

have the same mind here I also have my

286

00:12:28,979 --> 00:12:27,429

friends and reporters will come to me

287

00:12:30,239 --> 00:12:28,989

when sometimes I'll say well why don't

288

00:12:32,699 --> 00:12:30,249

we do this that or the other and I say

289

00:12:35,609 --> 00:12:32,709

that's great where's the angle you know

290

00:12:37,349 --> 00:12:35,619

where is the skeptical low or the you

291

00:12:40,169 --> 00:12:37,359

know interesting scientific angle we can

292

00:12:41,460 --> 00:12:40,179

exploit here because otherwise I guess

293

00:12:45,239 --> 00:12:41,470

we could have a show about just about

294

00:12:49,049 --> 00:12:45,249

any topic under the Sun yeah no yeah

295

00:12:50,519 --> 00:12:49,059

absolutely you know we do even we branch

296

00:12:52,170 --> 00:12:50,529

out we experiment

297

00:12:54,809 --> 00:12:52,180

some of our experiments fail that's okay

298

00:12:56,400 --> 00:12:54,819

thank you know you have a and we have

299

00:12:57,929 --> 00:12:56,410

enough of a long enough for Matt we've

300

00:13:01,259 --> 00:12:57,939

done enough shows that we can afford to

301
00:13:02,939 --> 00:13:01,269
experiment and not be afraid if if a bit

302
00:13:05,150 --> 00:13:02,949
doesn't go well but you know like we

303
00:13:08,369 --> 00:13:05,160
reviewed a movie you know we did

304
00:13:09,900 --> 00:13:08,379
Prometheus Ryan that was different but

305
00:13:11,400 --> 00:13:09,910
that our listeners loved it they're

306
00:13:12,780 --> 00:13:11,410
asking us to do more movies and we're

307
00:13:14,100 --> 00:13:12,790
going to do it because it worked out

308
00:13:15,629 --> 00:13:14,110
what it worked out really well we had a

309
00:13:17,819 --> 00:13:15,639
lot of fun and I think when we have fun

310
00:13:20,309 --> 00:13:17,829
or listeners have fun now why would

311
00:13:22,410 --> 00:13:20,319
chatting about the the team let me give

312
00:13:23,939 --> 00:13:22,420
a special shout-out well say hello to

313
00:13:25,379 --> 00:13:23,949

all the team of the skeptic guide to the

314

00:13:28,019 --> 00:13:25,389

University of your all my dear friends

315

00:13:31,259 --> 00:13:28,029

but I just want to have a quick shout

316

00:13:35,129 --> 00:13:31,269

out to Jay of course being a first-time

317

00:13:37,439 --> 00:13:35,139

recent father that's right there he has

318

00:13:41,939 --> 00:13:37,449

a son Dylan with his wife Courtney just

319

00:13:44,369 --> 00:13:41,949

a five weeks old now six weeks old cute

320

00:13:46,049 --> 00:13:44,379

as a button of course you know beef you

321

00:13:48,540 --> 00:13:46,059

listen to the show you've heard his

322

00:13:50,970 --> 00:13:48,550

squeaky voice yes I couldn't reserves

323

00:13:53,129 --> 00:13:50,980

resist playing it a proud new debt and

324

00:13:55,049 --> 00:13:53,139

yeah Jay is loving it he's having a

325

00:13:57,869 --> 00:13:55,059

great time he's totally sleep deprived

326

00:14:00,329 --> 00:13:57,879

and which is interesting because he's

327

00:14:06,960 --> 00:14:00,339

you know Jays mental faculties

328

00:14:09,150 --> 00:14:06,970

definitely show the wear but he's uh you

329

00:14:11,249 --> 00:14:09,160

know when he shows up for the show he's

330

00:14:14,040 --> 00:14:11,259

still Jay but I could tell that he's

331

00:14:16,860 --> 00:14:14,050

like just completely completely

332

00:14:22,530 --> 00:14:16,870

sleep-deprived you know well no shock

333

00:14:23,939 --> 00:14:22,540

though yeah but but he and Courtney are

334

00:14:26,189 --> 00:14:23,949

really having a good time with their new

335

00:14:27,269 --> 00:14:26,199

with their new son and it's fun for me

336

00:14:29,639 --> 00:14:27,279

because I've been through it all a

337

00:14:31,829 --> 00:14:29,649

couple of times so I get to you know

338

00:14:34,829 --> 00:14:31,839

watch him go through it and you know

339

00:14:37,049 --> 00:14:34,839

give him some of the benefit of my

340

00:14:40,139 --> 00:14:37,059

experience just giving them a heads up

341

00:14:42,030 --> 00:14:40,149

as to what to expect but it's it's fun

342

00:14:43,619 --> 00:14:42,040

also just watching him sort of discover

343

00:14:45,840 --> 00:14:43,629

all the emotions and everything for

344

00:14:47,519 --> 00:14:45,850

himself you know oh yeah I'm sure I'm

345

00:14:49,499 --> 00:14:47,529

sure it is well then you can sort of

346

00:14:51,119 --> 00:14:49,509

look at it that it's it's the next

347

00:14:53,009 --> 00:14:51,129

generation of the skeptics guide to the

348

00:14:57,150 --> 00:14:53,019

universe podcast is already sort of

349

00:14:59,249 --> 00:14:57,160

there waiting you know then okay the

350

00:15:00,929 --> 00:14:59,259

replacements are on their way in in due

351

00:15:03,449 --> 00:15:00,939

time now Steve you've got a very

352

00:15:04,800 --> 00:15:03,459

interesting thing coming up in april i

353

00:15:07,410 --> 00:15:04,810

believe which is the huge

354

00:15:08,820 --> 00:15:07,420

eating in New York Nexus yeah the

355

00:15:10,769 --> 00:15:08,830

Northeast Conference on science and

356

00:15:13,050 --> 00:15:10,779

skepticism Nexus as we call it april

357

00:15:15,420 --> 00:15:13,060

fifth to seventh we really do have a

358

00:15:18,510 --> 00:15:15,430

great lineup this year Leonard Malone

359

00:15:22,530 --> 00:15:18,520

now is our keynote speaker he wrote the

360

00:15:26,360 --> 00:15:22,540

drunkards walk he wrote a book the the

361

00:15:28,530 --> 00:15:26,370

follow-up book with Stephen Hawking a

362

00:15:32,370 --> 00:15:28,540

brief hit a briefer history a time I

363

00:15:35,250 --> 00:15:32,380

think was called and Jon Ronson Simon

364

00:15:38,280 --> 00:15:35,260

Singh Marietta Christina who's editor of

365

00:15:40,019 --> 00:15:38,290

Scientific American Michael Shermer we

366

00:15:41,400 --> 00:15:40,029

have a great lineup and friday night

367

00:15:43,920 --> 00:15:41,410

were doing something new again we're

368

00:15:47,490 --> 00:15:43,930

experimenting but we're doing a show

369

00:15:50,630 --> 00:15:47,500

called stimulus response it's a

370

00:15:53,220 --> 00:15:50,640

brainchild of brian Wecht and George Rob

371

00:15:57,210 --> 00:15:53,230

so they're going to George and his

372

00:15:59,340 --> 00:15:57,220

cousin are going to create art on stage

373

00:16:01,680 --> 00:15:59,350

in real time you know he'll sort of

374

00:16:04,290 --> 00:16:01,690

watch watch the creative process George

375

00:16:05,430 --> 00:16:04,300

is going to write a song and his cousin

376

00:16:08,810 --> 00:16:05,440

is a painter is going to paint a

377

00:16:10,920 --> 00:16:08,820

painting and 45 minutes on stage and

378

00:16:14,520 --> 00:16:10,930

then we're going to talk about the

379

00:16:16,320 --> 00:16:14,530

neuroscience of creativity and then they

380

00:16:18,480 --> 00:16:16,330

have some comedians lined up who are

381

00:16:21,890 --> 00:16:18,490

going to do some improv and they're

382

00:16:25,500 --> 00:16:21,900

going to incorporate one of the speakers

383

00:16:29,310 --> 00:16:25,510

who last I heard was going to be Jon

384

00:16:31,470 --> 00:16:29,320

Ronson which is should be great as jon

385

00:16:33,360 --> 00:16:31,480

is he's a sport you know he's really

386

00:16:35,940 --> 00:16:33,370

game for this kind of thing and I think

387

00:16:38,010 --> 00:16:35,950

the guy's hilarious I love his he has

388

00:16:41,310 --> 00:16:38,020

this dry self-deprecating humor that I

389

00:16:43,079 --> 00:16:41,320

that I think is fantastic what a lineup

390

00:16:44,820 --> 00:16:43,089

and what an interesting session that

391

00:16:47,220 --> 00:16:44,830

sounds like now do you know if the

392

00:16:48,390 --> 00:16:47,230

tickets are still available oh yeah yeah

393

00:16:52,170 --> 00:16:48,400

absolutely tickets are still available

394

00:16:54,690 --> 00:16:52,180

for everything and of course the SU does

395

00:16:56,310 --> 00:16:54,700

a live show on stage where Ashley

396

00:17:00,360 --> 00:16:56,320

speaking podcasts also doing the live

397

00:17:04,069 --> 00:17:00,370

show and we're the we do a private

398

00:17:06,540 --> 00:17:04,079

recording Saturday night there there

399

00:17:08,069 --> 00:17:06,550

we're still working out the details but

400

00:17:12,720 --> 00:17:08,079

a couple of tickets opened up for that

401

00:17:15,000 --> 00:17:12,730

we're figuring out how to how to sell

402

00:17:16,980 --> 00:17:15,010

those off because because so many people

403

00:17:18,630 --> 00:17:16,990

will you know we're requesting tickets

404

00:17:22,920 --> 00:17:18,640

we sold that that sold out almost

405

00:17:24,750 --> 00:17:22,930

immediately and you know the private SG

406

00:17:27,569 --> 00:17:24,760

recording on Saturday night but now we

407

00:17:29,970 --> 00:17:27,579

have a few spaces open up so there'll be

408

00:17:33,000 --> 00:17:29,980

some opportunities maybe 10 to nab one

409

00:17:34,650 --> 00:17:33,010

of those that sounds fantastic how can

410

00:17:38,100 --> 00:17:34,660

people find out more what's the address

411

00:17:41,100 --> 00:17:38,110

they should go so just go to any CSS org

412

00:17:44,490 --> 00:17:41,110

all the information is there now you and

413

00:17:46,650 --> 00:17:44,500

I both Steve we really like the public

414

00:17:48,740 --> 00:17:46,660

events the big events like Tam and so on

415

00:17:52,320 --> 00:17:48,750

and it's a great opportunity to meet

416

00:17:54,750 --> 00:17:52,330

fans of the show you must have over the

417

00:17:57,780 --> 00:17:54,760

years met some great skeptics guide to

418

00:17:59,640 --> 00:17:57,790

the universe fans yeah we really love

419

00:18:01,170 --> 00:17:59,650

going to the live event not only because

420

00:18:03,210 --> 00:18:01,180

we get to see all of our skeptical

421

00:18:05,790 --> 00:18:03,220

friends that otherwise we only get to

422

00:18:07,860 --> 00:18:05,800

you know talk with over Skype or emails

423

00:18:09,930 --> 00:18:07,870

oh it's you know the few opportunities

424

00:18:12,390 --> 00:18:09,940

we have to hang out with with our

425

00:18:14,490 --> 00:18:12,400

colleagues once or twice a year but we

426

00:18:17,910 --> 00:18:14,500

loved meeting with our listeners you

427

00:18:19,560 --> 00:18:17,920

know we always have tables and try to

428

00:18:22,340 --> 00:18:19,570

spend as much time as we can there

429

00:18:25,020 --> 00:18:22,350

although we're busy at events you know

430

00:18:27,630 --> 00:18:25,030

right either running them we run the

431

00:18:28,830 --> 00:18:27,640

events and do recording interviews and

432

00:18:31,140 --> 00:18:28,840

prepping for our shows and everything

433

00:18:33,570 --> 00:18:31,150

but as much time as we can get away just

434

00:18:35,820 --> 00:18:33,580

you sitting behind the table talking

435

00:18:37,980 --> 00:18:35,830

with our listeners we usually hold some

436

00:18:39,810 --> 00:18:37,990

events like dinners or whatever where we

437

00:18:41,700 --> 00:18:39,820

spend a lot of time with people who

438

00:18:42,780 --> 00:18:41,710

listen to the show and that's always

439

00:18:44,720 --> 00:18:42,790

great i mean i'd love to hear their

440

00:18:46,830 --> 00:18:44,730

stories love to get their feedback

441

00:18:48,660 --> 00:18:46,840

it's it's that's one of the things that

442

00:18:51,090 --> 00:18:48,670

really recharges our batteries and and

443

00:18:52,410 --> 00:18:51,100

you know makes it be a Briggs at home so

444

00:18:54,570 --> 00:18:52,420

otherwise you know you're sitting in

445

00:18:56,160 --> 00:18:54,580

your in your house producing this

446

00:18:58,830 --> 00:18:56,170

content you send it off into the ether

447

00:19:01,350 --> 00:18:58,840

and it you could still feel pretty

448

00:19:03,360 --> 00:19:01,360

isolated you know the online

449

00:19:04,710 --> 00:19:03,370

interactions great but it's not the same

450

00:19:06,060 --> 00:19:04,720

thing as having somebody come up to you

451
00:19:07,200 --> 00:19:06,070
and say oh I really appreciate all the

452
00:19:10,320 --> 00:19:07,210
work you're doing and the show that you

453
00:19:12,690 --> 00:19:10,330
put on so it really is very nice yeah I

454
00:19:16,410 --> 00:19:12,700
have to agree it's it's very nice and

455
00:19:18,840 --> 00:19:16,420
date and I I guess again we have a very

456
00:19:21,120 --> 00:19:18,850
similar situation we're very very kind

457
00:19:22,380 --> 00:19:21,130
people come up and say how much they

458
00:19:24,390 --> 00:19:22,390
enjoy the show and it's part of their

459
00:19:26,040 --> 00:19:24,400
life you know every week they they'll

460
00:19:27,900 --> 00:19:26,050
download the show and off they'll go to

461
00:19:29,910 --> 00:19:27,910
work and I'll go jogging I mean there

462
00:19:31,260 --> 00:19:29,920
are people listening to us now doing all

463
00:19:32,970 --> 00:19:31,270

sorts of things

464

00:19:36,000 --> 00:19:32,980

as part of their their weekly routine

465

00:19:40,200 --> 00:19:36,010

and that's that's very nice to know yeah

466

00:19:43,460 --> 00:19:40,210

it really is now let me talk with you

467

00:19:46,410 --> 00:19:43,470

just for a short while about a recent

468

00:19:48,390 --> 00:19:46,420

interesting adventure you had well

469

00:19:51,510 --> 00:19:48,400

recent I guess it was a little while ago

470

00:19:55,500 --> 00:19:51,520

were you appeared on the dr. Oz Show now

471

00:19:58,440 --> 00:19:55,510

I must tell you that dr. oz is played

472

00:20:00,660 --> 00:19:58,450

here in Australia five at least five

473

00:20:02,400 --> 00:20:00,670

days a week and it's quite popular now

474

00:20:05,070 --> 00:20:02,410

you you would have appeared here on

475

00:20:07,860 --> 00:20:05,080

Australian TV I'm not exactly sure when

476
00:20:09,570 --> 00:20:07,870
that would have been broadcast but what

477
00:20:13,320 --> 00:20:09,580
can you tell our listeners about your

478
00:20:16,440 --> 00:20:13,330
experience being on the dr. Oz Show yeah

479
00:20:20,220 --> 00:20:16,450
so I was contacted by a producer of the

480
00:20:22,860 --> 00:20:20,230
show and at first I file they do they

481
00:20:25,020 --> 00:20:22,870
know who I am I mean did they are they

482
00:20:27,720 --> 00:20:25,030
sure they were they just fishing for

483
00:20:30,210 --> 00:20:27,730
some random you know neurologist no but

484
00:20:32,070 --> 00:20:30,220
they wanted they had read some of the

485
00:20:33,540 --> 00:20:32,080
articles that we wrote about dr. oz on

486
00:20:37,710 --> 00:20:33,550
my blog it on science-based medicine

487
00:20:39,810 --> 00:20:37,720
where we're pretty critical of him you

488
00:20:41,850 --> 00:20:39,820

know he dispenses a lot of information

489

00:20:43,860 --> 00:20:41,860

and a lot of what he talks about on his

490

00:20:48,180 --> 00:20:43,870

show is fine it's pretty straightforward

491

00:20:50,820 --> 00:20:48,190

medical knowledge but he also will delve

492

00:20:52,680 --> 00:20:50,830

into pseudoscience and I think he's been

493

00:20:54,750 --> 00:20:52,690

doing that increasingly promoting all

494

00:20:57,720 --> 00:20:54,760

kinds of nonsense like homeopathy and

495

00:21:00,030 --> 00:20:57,730

acupuncture and now the latest fad diet

496

00:21:03,030 --> 00:21:00,040

pill it seems the latest supplement or

497

00:21:06,690 --> 00:21:03,040

anything so we've criticized him when he

498

00:21:08,880 --> 00:21:06,700

strays into the pseudoscience but they

499

00:21:10,170 --> 00:21:08,890

wanted to bring me on the show to talk

500

00:21:13,080 --> 00:21:10,180

about it to talk about that our

501
00:21:16,700 --> 00:21:13,090
criticisms of all you know his promotion

502
00:21:19,170 --> 00:21:16,710
of alternative medicine so I actually

503
00:21:21,360 --> 00:21:19,180
emailed my science-based medicine

504
00:21:23,130 --> 00:21:21,370
colleagues you know David Gorski and

505
00:21:26,430 --> 00:21:23,140
kimball and mark and Harry and those

506
00:21:28,350 --> 00:21:26,440
guys and in some way what do you guys

507
00:21:30,690 --> 00:21:28,360
think about this I mean this is it's a

508
00:21:33,300 --> 00:21:30,700
great opportunity but it's also a huge

509
00:21:35,070 --> 00:21:33,310
potential for failure here because he's

510
00:21:37,650 --> 00:21:35,080
going to completely control the content

511
00:21:38,880 --> 00:21:37,660
and you know how much power you have in

512
00:21:40,290 --> 00:21:38,890
the editing room you know you can make

513
00:21:43,080 --> 00:21:40,300

anybody sound like anything you want

514

00:21:44,720 --> 00:21:43,090

sure there's a there's a certain amount

515

00:21:46,880 --> 00:21:44,730

of trust you give

516

00:21:49,070 --> 00:21:46,890

when when you allow yourself to be

517

00:21:50,510 --> 00:21:49,080

interviewed by somebody else and they're

518

00:21:53,900 --> 00:21:50,520

going to completely control the content

519

00:21:56,570 --> 00:21:53,910

and you know we weren't sure that that

520

00:21:58,100 --> 00:21:56,580

we should do that but in the end I

521

00:22:01,340 --> 00:21:58,110

decided that it was too big an

522

00:22:04,340 --> 00:22:01,350

opportunity to pass up and that it was

523

00:22:07,190 --> 00:22:04,350

worth the chance plus I know I've been

524

00:22:09,380 --> 00:22:07,200

in these situations before so I sort of

525

00:22:12,860 --> 00:22:09,390

trusted myself to to handle it you know

526
00:22:15,320 --> 00:22:12,870
to not say something stupid or get you

527
00:22:19,310 --> 00:22:15,330
know lured into lying something that I

528
00:22:21,980 --> 00:22:19,320
shouldn't you have to do you disciplined

529
00:22:24,130 --> 00:22:21,990
enough to speak in sound bites that I'm

530
00:22:26,659 --> 00:22:24,140
happy that they will stand on their own

531
00:22:29,900 --> 00:22:26,669
they can always of course alter the

532
00:22:36,440 --> 00:22:29,910
context of what you're saying but so

533
00:22:38,450 --> 00:22:36,450
anyway so I went on the show dr. oz did

534
00:22:41,060 --> 00:22:38,460
not say two words to me except when I

535
00:22:42,620 --> 00:22:41,070
was on stage with him there was no he

536
00:22:44,510 --> 00:22:42,630
didn't visit me in the greenroom never

537
00:22:45,799 --> 00:22:44,520
said hi to me it was just saw it my

538
00:22:48,890 --> 00:22:45,809

interaction with him was a hundred

539

00:22:53,390 --> 00:22:48,900

percent on stage Oh which was which I

540

00:22:55,460 --> 00:22:53,400

thought was a little cold but the it

541

00:22:59,890 --> 00:22:55,470

actually went fairly well he did give me

542

00:23:03,830 --> 00:22:59,900

an opportunity to say my piece obviously

543

00:23:06,470 --> 00:23:03,840

not as much as i would have liked and I

544

00:23:07,940 --> 00:23:06,480

thought the the audience responded well

545

00:23:11,210 --> 00:23:07,950

to the points that I made you know

546

00:23:12,710 --> 00:23:11,220

obviously I I couldn't be too I couldn't

547

00:23:14,450 --> 00:23:12,720

be int agonistic I had to come off as

548

00:23:17,180 --> 00:23:14,460

the nice guy you know that was I think

549

00:23:19,130 --> 00:23:17,190

the whole point of him my guess is he

550

00:23:21,140 --> 00:23:19,140

wanted somebody on the show so that he

551
00:23:23,180 --> 00:23:21,150
could talk at them to make the points he

552
00:23:24,620 --> 00:23:23,190
wanted to make and if he could get us to

553
00:23:27,919 --> 00:23:24,630
be like sort of the bad guy that would

554
00:23:29,750 --> 00:23:27,929
be a bonus but i think i managed to come

555
00:23:32,180 --> 00:23:29,760
off as a likable person I knew that it's

556
00:23:34,880 --> 00:23:32,190
really my only goal was to just be us

557
00:23:39,770 --> 00:23:34,890
just to be likable and I you know God

558
00:23:42,890 --> 00:23:39,780
got a few points in and but oz reserved

559
00:23:45,650 --> 00:23:42,900
sort of the closing statement for

560
00:23:47,690 --> 00:23:45,660
himself you know made his little brief

561
00:23:50,169 --> 00:23:47,700
rant you know stating his position and

562
00:23:52,990 --> 00:23:50,179
gave me no opportunity to respond and

563
00:23:57,260 --> 00:23:53,000

the one thing he said to me off camera

564

00:23:57,750 --> 00:23:57,270

what was I guess he realized that it's

565

00:23:59,160 --> 00:23:57,760

pretty

566

00:24:01,080 --> 00:23:59,170

rude to you know have a guest on your

567

00:24:02,550 --> 00:24:01,090

show and then to talk at them for a

568

00:24:05,040 --> 00:24:02,560

minute and then cut them off and end the

569

00:24:06,300 --> 00:24:05,050

segment so we did say oh sorry I had to

570

00:24:08,220 --> 00:24:06,310

do that we were running late you know I

571

00:24:11,460 --> 00:24:08,230

sort of this sort of ride lame lame

572

00:24:15,510 --> 00:24:11,470

apology for doing that but other than

573

00:24:16,770 --> 00:24:15,520

that you know it that was that was the

574

00:24:18,780 --> 00:24:16,780

only thing he said to me that wasn't on

575

00:24:19,920 --> 00:24:18,790

camera and then we do we had to wait and

576

00:24:21,660 --> 00:24:19,930

see how they were going to edit it and

577

00:24:24,480 --> 00:24:21,670

the editing actually was not bad you

578

00:24:27,930 --> 00:24:24,490

know it they kept most of the segment

579

00:24:29,880 --> 00:24:27,940

they didn't they didn't chop it up so in

580

00:24:32,360 --> 00:24:29,890

the end I was glad that I went that I

581

00:24:34,860 --> 00:24:32,370

went on the show I think it probably

582

00:24:36,900 --> 00:24:34,870

helped us more than anything else did

583

00:24:40,050 --> 00:24:36,910

you get much feedback ol fallout from

584

00:24:42,810 --> 00:24:40,060

that yeah lots of feedback you know um

585

00:24:44,910 --> 00:24:42,820

so a lot of people saw me on the show

586

00:24:46,680 --> 00:24:44,920

even people who are not regular

587

00:24:50,700 --> 00:24:46,690

consumers of science-based medicine or

588

00:24:52,620 --> 00:24:50,710

the SGU so I think it was overall it was

589

00:24:54,300 --> 00:24:52,630

a skeptical win it was it was good for

590

00:24:56,820 --> 00:24:54,310

the science-based medicine brand you

591

00:24:58,620 --> 00:24:56,830

know to get it out there I had a lot of

592

00:25:01,470 --> 00:24:58,630

my own patients said hey I saw you on

593

00:25:03,120 --> 00:25:01,480

the dr. Oz Show and so these are just

594

00:25:06,120 --> 00:25:03,130

regular people they're not skeptics or

595

00:25:08,250 --> 00:25:06,130

in the community and that the the

596

00:25:11,100 --> 00:25:08,260

feedback was mostly that the people

597

00:25:16,380 --> 00:25:11,110

thought that the by appearance was good

598

00:25:18,000 --> 00:25:16,390

and that a lot of people noted that they

599

00:25:20,910 --> 00:25:18,010

thought odds was a little rude to me at

600

00:25:22,560 --> 00:25:20,920

the end which to me means that it

601
00:25:24,540 --> 00:25:22,570
probably backfired on him a little bit

602
00:25:26,370 --> 00:25:24,550
and another thing that was interesting I

603
00:25:30,690 --> 00:25:26,380
a lot of people said to me that they

604
00:25:32,910 --> 00:25:30,700
really liked dr. oz but he does go off

605
00:25:34,110 --> 00:25:32,920
the deep end on the alternative medicine

606
00:25:35,370 --> 00:25:34,120
thing and then they just ignore him when

607
00:25:37,170 --> 00:25:35,380
he starts talking about stuff like that

608
00:25:40,050 --> 00:25:37,180
which I thought was interesting so

609
00:25:42,060 --> 00:25:40,060
people some of his fans will separate

610
00:25:43,980 --> 00:25:42,070
that out like they take the real

611
00:25:47,120 --> 00:25:43,990
information and they just ignore the

612
00:25:49,170 --> 00:25:47,130
nonsense which was heartening to hear

613
00:25:51,480 --> 00:25:49,180

that there that there is still

614

00:25:53,340 --> 00:25:51,490

distinguishing the kind of information

615

00:25:55,320 --> 00:25:53,350

is giving not that he's not doing damage

616

00:25:56,520 --> 00:25:55,330

by promoting nonsense but at least some

617

00:25:58,710 --> 00:25:56,530

people out there can tell the difference

618

00:26:02,160 --> 00:25:58,720

oh well we look forward to the day when

619

00:26:03,570 --> 00:26:02,170

it's the dr steve TV show yeah that

620

00:26:05,490 --> 00:26:03,580

would be nice oh you'll be the first one

621

00:26:07,710 --> 00:26:05,500

in our richard i would appreciate that

622

00:26:09,789 --> 00:26:07,720

then you can have dr. oz on your TV show

623

00:26:12,460 --> 00:26:09,799

and took her here for five minutes

624

00:26:14,710 --> 00:26:12,470

hey I invited him on the st you never

625

00:26:16,509 --> 00:26:14,720

never never got back to me well there

626

00:26:19,180 --> 00:26:16,519

you go I guess he is a very very busy

627

00:26:21,369 --> 00:26:19,190

man indeed I guess so now Steve I think

628

00:26:22,930 --> 00:26:21,379

the next opportunity we will have to see

629

00:26:27,669 --> 00:26:22,940

each other in person and have a drink

630

00:26:30,070 --> 00:26:27,679

will be probably tam 2013 tam in july i

631

00:26:31,779 --> 00:26:30,080

think it is in Las Vegas this year yeah

632

00:26:33,669 --> 00:26:31,789

I looking forward to it yeah I can't

633

00:26:35,109 --> 00:26:33,679

wait to see you again that's always here

634

00:26:37,269 --> 00:26:35,119

again the highlight of these conferences

635

00:26:38,470 --> 00:26:37,279

is getting to see our friends but yeah

636

00:26:41,229 --> 00:26:38,480

we're really looking forward to Tam Tam

637

00:26:43,389 --> 00:26:41,239

is a one of the you know that I think

638

00:26:45,789 --> 00:26:43,399

it's still the biggest annual skeptical

639

00:26:47,979 --> 00:26:45,799

conference that we have by the J ref

640

00:26:52,119 --> 00:26:47,989

James Randi of course is always there

641

00:26:54,970 --> 00:26:52,129

hosting and you know the SGU is always a

642

00:26:58,149 --> 00:26:54,980

big part of it we put on a good to live

643

00:27:00,070 --> 00:26:58,159

shows actually end a dinner and I do a

644

00:27:01,629 --> 00:27:00,080

science-based medicine workshop and a

645

00:27:03,970 --> 00:27:01,639

panel it's always really busy but we

646

00:27:06,190 --> 00:27:03,980

love it it's a full full weekend it

647

00:27:08,200 --> 00:27:06,200

certainly is it's it's a of course on

648

00:27:10,749 --> 00:27:08,210

its a one of the highlights of my my

649

00:27:12,789 --> 00:27:10,759

calendar every years is not only seeing

650

00:27:14,049 --> 00:27:12,799

old friends like my friends at the

651
00:27:16,389 --> 00:27:14,059
skeptics guide to the universe but

652
00:27:19,330 --> 00:27:16,399
meeting so many people and having a chat

653
00:27:20,919 --> 00:27:19,340
to Randy being in las vegas there's

654
00:27:25,239 --> 00:27:20,929
always a lot of fun so i think we can

655
00:27:27,009 --> 00:27:25,249
always always look forward to a tam yeah

656
00:27:28,930 --> 00:27:27,019
it's great networking to me we meet new

657
00:27:30,310 --> 00:27:28,940
people that you know we should know but

658
00:27:32,259 --> 00:27:30,320
we just for whatever reason never came

659
00:27:33,759 --> 00:27:32,269
across them until we run into them at

660
00:27:35,769 --> 00:27:33,769
these conferences and we get great

661
00:27:37,930 --> 00:27:35,779
interviews for the show it's really we

662
00:27:41,950 --> 00:27:37,940
got it so much content it's awesome oh

663
00:27:44,229 --> 00:27:41,960

yeah I hear you me too it's a golden

664

00:27:47,049 --> 00:27:44,239

opportunity for me to to especially with

665

00:27:48,820 --> 00:27:47,059

my people like my reporter may not to

666

00:27:52,570 --> 00:27:48,830

grab lots of interviews which helps me

667

00:27:55,509 --> 00:27:52,580

and helps you produce more your podcasts

668

00:27:57,159 --> 00:27:55,519

and sometimes it's it's gold to have a

669

00:27:59,109 --> 00:27:57,169

nice 30-minute interview or something

670

00:28:01,149 --> 00:27:59,119

like that yeah and the live interviews

671

00:28:02,590 --> 00:28:01,159

are just there's a different energy you

672

00:28:04,720 --> 00:28:02,600

know when the persons in the room with

673

00:28:07,539 --> 00:28:04,730

you as opposed to just a voice over the

674

00:28:10,090 --> 00:28:07,549

phone so I enjoy the live interviews a

675

00:28:11,859 --> 00:28:10,100

lot the visual feedback is what's

676

00:28:13,840 --> 00:28:11,869

missing when we're recording over the

677

00:28:16,029 --> 00:28:13,850

internet you know yeah you're i'm

678

00:28:17,529 --> 00:28:16,039

looking at a funny cartoon character of

679

00:28:20,080 --> 00:28:17,539

you right now on my screen but it'll

680

00:28:23,410 --> 00:28:20,090

just have to do a wreck ray my skype

681

00:28:27,160 --> 00:28:23,420

payment here yeah well Steve up

682

00:28:28,810 --> 00:28:27,170

400 episodes again it's it's just a mind

683

00:28:31,060 --> 00:28:28,820

stepping achievement and when you say

684

00:28:33,520 --> 00:28:31,070

it's what over eight years it sounds

685

00:28:34,720 --> 00:28:33,530

even more incredible people are growing

686

00:28:36,280 --> 00:28:34,730

up with the skeptics guide to the

687

00:28:40,090 --> 00:28:36,290

universe which is an interesting thought

688

00:28:42,250 --> 00:28:40,100

and all I can say is I hope you keep

689

00:28:44,710 --> 00:28:42,260

doing it for as long as you can possibly

690

00:28:47,140 --> 00:28:44,720

keep doing it and to be together with

691

00:28:50,290 --> 00:28:47,150

the same team and of course we remember

692

00:28:52,270 --> 00:28:50,300

a Perry at this time who sadly is always

693

00:28:54,820 --> 00:28:52,280

always a remember Perry who isn't part

694

00:28:56,440 --> 00:28:54,830

of the team now of course and i'm very

695

00:28:58,180 --> 00:28:56,450

sad i never got the opportunity to meet

696

00:28:59,860 --> 00:28:58,190

him but still with it basically the same

697

00:29:02,890 --> 00:28:59,870

team after all these years it's it's

698

00:29:05,530 --> 00:29:02,900

quite an achievement yeah i have to say

699

00:29:06,940 --> 00:29:05,540

and this is you know not to be sappy or

700

00:29:09,400 --> 00:29:06,950

anything but it really is because of our

701
00:29:10,990 --> 00:29:09,410
listeners i mean early on we had

702
00:29:13,840 --> 00:29:11,000
conversations all the week you know we

703
00:29:15,490 --> 00:29:13,850
increased pretty steadily but you know

704
00:29:16,990 --> 00:29:15,500
we we talked to each other like what are

705
00:29:20,440 --> 00:29:17,000
we going to do how long are we going to

706
00:29:22,090 --> 00:29:20,450
do this if we don't get a reasonable

707
00:29:24,100 --> 00:29:22,100
listener base if it doesn't take off

708
00:29:26,100 --> 00:29:24,110
luckily we never had to face that

709
00:29:28,870 --> 00:29:26,110
question because you know our listeners

710
00:29:30,640 --> 00:29:28,880
increased steadily over the years but

711
00:29:32,320 --> 00:29:30,650
it's our listeners that keep us going

712
00:29:34,030 --> 00:29:32,330
it's it's the feedback that we get the

713
00:29:36,760 --> 00:29:34,040

interaction that we have with them if it

714

00:29:38,890 --> 00:29:36,770

weren't for that you know there's no way

715

00:29:41,560 --> 00:29:38,900

that we would have the energy to keep

716

00:29:44,440 --> 00:29:41,570

doing this week after week Thank You

717

00:29:47,080 --> 00:29:44,450

listeners I you're absolutely right

718

00:29:49,000 --> 00:29:47,090

Steve and I I get the same sort of

719

00:29:50,800 --> 00:29:49,010

feeling when I get very very kind emails

720

00:29:53,350 --> 00:29:50,810

coming back to the skeptics and well

721

00:29:55,840 --> 00:29:53,360

Steve I think I should let you now study

722

00:29:57,250 --> 00:29:55,850

and prep for your next skeptics guide to

723

00:29:59,500 --> 00:29:57,260

the universe your listeners wouldn't

724

00:30:01,270 --> 00:29:59,510

forgive you if the show was late but I'd

725

00:30:02,950 --> 00:30:01,280

like to thank you very much for taking

726

00:30:05,350 --> 00:30:02,960

time out to chat to the listeners of the

727

00:30:17,470 --> 00:30:05,360

skeptic zone it's my pleasure and thank

728

00:30:23,119 --> 00:30:20,869

hello simulated human voice here again

729

00:30:26,119 --> 00:30:23,129

during the week I saw the first episode

730

00:30:28,730 --> 00:30:26,129

of a new ABC TV series called the check

731

00:30:32,259 --> 00:30:28,740

out I must say it was very skeptical

732

00:30:35,180 --> 00:30:32,269

indeed and I know Saunders enjoyed it

733

00:30:39,980 --> 00:30:35,190

you can see it for yourself at the ABC

734

00:30:42,289 --> 00:30:39,990

website wewt be CIA you or for those

735

00:30:49,369 --> 00:30:42,299

outside Australia search for it on

736

00:30:51,350 --> 00:30:49,379

YouTube virtual skeptics is a weekly web

737

00:30:53,960 --> 00:30:51,360

show in which we discuss the latest news

738

00:30:55,460 --> 00:30:53,970

in skepticism whether it's a new case of

739

00:30:57,649 --> 00:30:55,470

spontaneous human combustion a

740

00:30:59,869 --> 00:30:57,659

conspiracy theory the latest update on

741

00:31:01,549 --> 00:30:59,879

the upcoming robot apocalypse tech news

742

00:31:04,009 --> 00:31:01,559

for skeptics are the latest wacky

743

00:31:06,409 --> 00:31:04,019

religious claim we cover it all we

744

00:31:09,049 --> 00:31:06,419

record the show live as a Google+ on-air

745

00:31:10,879 --> 00:31:09,059

hang out so join us in our host Brian

746

00:31:13,009 --> 00:31:10,889

Gregory for an hour of mostly

747

00:31:15,919 --> 00:31:13,019

intelligent talk every wednesday at

748

00:31:18,919 --> 00:31:15,929

eight pm eastern US time watch us at

749

00:31:21,590 --> 00:31:18,929

virtual skeptics calm and participate in

750

00:31:24,499 --> 00:31:21,600

the show on our hashtag virtual skeptics

751

00:31:29,169 --> 00:31:24,509

the virtual skeptics it's like meet the

752

00:31:34,970 --> 00:31:32,090

welcome to a week in science from our

753

00:31:38,090 --> 00:31:34,980

iOS this week life at the bottom of the

754

00:31:45,409 --> 00:31:38,100

oceans instant gold and evolution in

755

00:31:47,060 --> 00:31:45,419

action first up the deepest place on the

756

00:31:50,570 --> 00:31:47,070

earth has been found to house an

757

00:31:53,510 --> 00:31:50,580

unexpectedly large population of living

758

00:31:56,000 --> 00:31:53,520

creatures researchers measured oxygen

759

00:31:58,760 --> 00:31:56,010

consumption as an indicator of microbial

760

00:32:02,450 --> 00:31:58,770

life in the Mariana Trench at an

761

00:32:04,700 --> 00:32:02,460

astounding depth of 11,000 meters they

762

00:32:06,799 --> 00:32:04,710

found a surprisingly active community

763

00:32:08,990 --> 00:32:06,809

and suggested that they're fed by

764

00:32:12,980 --> 00:32:09,000

relatively high levels of incoming

765

00:32:15,919 --> 00:32:12,990

sediment in news for modern-day

766

00:32:19,100 --> 00:32:15,929

prospectors earthquakes may be causing

767

00:32:21,530 --> 00:32:19,110

the deposit of gold that's gold I tells

768

00:32:23,960 --> 00:32:21,540

you it's long been thought that gold in

769

00:32:26,870 --> 00:32:23,970

quartz deposits form over long periods

770

00:32:29,810 --> 00:32:26,880

of time as the dissolved gold slowly

771

00:32:32,330 --> 00:32:29,820

solidifies out of mineral rich solutions

772

00:32:34,370 --> 00:32:32,340

but a new theory proposed this week

773

00:32:37,280 --> 00:32:34,380

suggests that earthquakes cracking rocks

774

00:32:40,100 --> 00:32:37,290

deep underground formed spaces of lower

775

00:32:42,500 --> 00:32:40,110

pressure than the surrounding rock this

776

00:32:45,289 --> 00:32:42,510

sudden change in pressure solidifies the

777

00:32:47,409 --> 00:32:45,299

dissolved gold and other minerals out of

778

00:32:50,270 --> 00:32:47,419

the surrounding solution almost

779

00:32:53,750 --> 00:32:50,280

instantaneously and now for size

780

00:32:56,210 --> 00:32:53,760

headlines in 30 seconds giant squid may

781

00:32:58,450 --> 00:32:56,220

in fact all be a single species and not

782

00:33:00,950 --> 00:32:58,460

multiple species as previously thought

783

00:33:03,710 --> 00:33:00,960

roadkill's of cliff swallows may be

784

00:33:06,039 --> 00:33:03,720

forcing evolution with fewer birds being

785

00:33:09,110 --> 00:33:06,049

hit and the birds having shorter wings

786

00:33:10,909 --> 00:33:09,120

further analysis by CERN has confirmed

787

00:33:13,640 --> 00:33:10,919

that the elementary particle discovered

788

00:33:16,490 --> 00:33:13,650

in July last year was indeed a Higgs

789

00:33:18,470 --> 00:33:16,500

boson and Japanese researchers found

790

00:33:20,630 --> 00:33:18,480

that the timing of a roosters crow each

791

00:33:23,299 --> 00:33:20,640

morning depends on their internal

792

00:33:26,419 --> 00:33:23,309

biological clock and not the presence of

793

00:33:29,990 --> 00:33:26,429

the Sun finally this week a new

794

00:33:32,120 --> 00:33:30,000

development in 3d displays this new

795

00:33:34,520 --> 00:33:32,130

approach uses diffractive optics to

796

00:33:37,190 --> 00:33:34,530

produce three-dimensional images which

797

00:33:39,710 --> 00:33:37,200

can be viewed from multiple angles even

798

00:33:41,539 --> 00:33:39,720

when the device is tilted it consists of

799

00:33:44,330 --> 00:33:41,549

a set of LEDs and a

800

00:33:47,269 --> 00:33:44,340

filter that manipulates light to produce

801

00:33:50,269 --> 00:33:47,279

different views and colors this is not

802

00:33:52,669 --> 00:33:50,279

an expensive holographic technique but a

803

00:33:55,100 --> 00:33:52,679

faster and cheaper option this

804

00:33:57,889 --> 00:33:55,110

glasses-free technology could

805

00:34:02,359 --> 00:33:57,899

revolutionize data visualization medical

806

00:34:04,789 --> 00:34:02,369

training and entertainment don't forget

807

00:34:08,270 --> 00:34:04,799

about science behind the headlines drugs

808

00:34:10,700 --> 00:34:08,280

in sport this Tuesday March 26th our

809

00:34:12,559 --> 00:34:10,710

expert panel will be examining this hot

810

00:34:14,780 --> 00:34:12,569

topic and you can be part of the

811

00:34:16,940 --> 00:34:14,790

audience at the sides exchanged or by

812

00:34:19,490 --> 00:34:16,950

following the live stream on our website

813

00:34:22,039 --> 00:34:19,500

the show starts at six-thirty p.m.

814

00:34:24,980 --> 00:34:22,049

central australian time 7 p.m. in the

815

00:34:26,750 --> 00:34:24,990

east and five in the west that's been

816

00:34:28,730 --> 00:34:26,760

the highlights of another big week in

817

00:34:31,639 --> 00:34:28,740

science for more information and other

818

00:34:37,069 --> 00:34:31,649

science news check out the rirs website

819

00:34:39,200 --> 00:34:37,079

RI aus org a you where you can also sign

820

00:34:41,629 --> 00:34:39,210

up for notifications of future episodes

821

00:34:44,839 --> 00:34:41,639

you can follow a week in science on

822

00:34:47,270 --> 00:34:44,849

twitter using the hashtag week in sy I'm

823

00:35:00,190 --> 00:34:47,280

Paul Willis and on behalf of the Arias

824

00:35:05,500 --> 00:35:04,060

I am audit my existing Aviva tips that I

825

00:35:07,870 --> 00:35:05,510

some logic lifted off the skeptic zone

826

00:35:10,210 --> 00:35:07,880

I'm skeptical Marin Nadia the VINs not a

827

00:35:11,920 --> 00:35:10,220

blog gear or petrov a podcast of reading

828

00:35:14,349 --> 00:35:11,930

escape system is leaked on this door

829

00:35:15,700 --> 00:35:14,359

panel central i'll skip crystal demo or

830

00:35:18,010 --> 00:35:15,710

higher publicize the dips corner

831

00:35:19,480 --> 00:35:18,020

Chiclets and calendar / activity or link

832

00:35:20,740 --> 00:35:19,490

it in the state association escapes this

833

00:35:22,329 --> 00:35:20,750

blog in ops at iridium layer or the

834

00:35:24,400 --> 00:35:22,339

discrete areas hefty performance so

835

00:35:32,829 --> 00:35:24,410

stick in them Oh Delta do Lhasa skips is

836

00:35:35,079 --> 00:35:32,839

totes hello why the big fuss about GMO

837

00:35:37,630 --> 00:35:35,089

crops are they indeed as terrible as

838

00:35:44,020 --> 00:35:37,640

some people say I'm Brian Dunning and

839

00:35:45,400 --> 00:35:44,030

you're watching in fact welcome to the

840

00:35:48,880 --> 00:35:45,410

show that gives you the real facts

841

00:35:51,040 --> 00:35:48,890

behind popular myths our GMO crops good

842

00:35:53,319 --> 00:35:51,050

or bad well the question actually

843

00:35:56,349 --> 00:35:53,329

doesn't make sense because direct

844

00:35:59,410 --> 00:35:56,359

genetic modification is a technology not

845

00:36:02,079 --> 00:35:59,420

a product it's one basic technology for

846

00:36:04,599 --> 00:36:02,089

creating new plant varieties another

847

00:36:07,240 --> 00:36:04,609

basic technology is hybridization or

848

00:36:09,160 --> 00:36:07,250

crossbreeding think of the difference

849

00:36:11,349 --> 00:36:09,170

between a typewriter and a computer

850

00:36:13,569 --> 00:36:11,359

there are two different technologies

851

00:36:16,030 --> 00:36:13,579

that can be used to write a book but it

852

00:36:19,089 --> 00:36:16,040

makes no sense to ask our books written

853

00:36:20,680 --> 00:36:19,099

on computers good or bad we all

854

00:36:22,720 --> 00:36:20,690

understand that it's the end product

855

00:36:24,430 --> 00:36:22,730

itself that's important not the

856

00:36:27,370 --> 00:36:24,440

technology with which it was created

857

00:36:29,829 --> 00:36:27,380

using a computer instead of a typewriter

858

00:36:32,079 --> 00:36:29,839

may make the work easier but it does not

859

00:36:34,990 --> 00:36:32,089

inherently result in a book that's

860

00:36:38,170 --> 00:36:35,000

either better or worse by the same token

861

00:36:40,720 --> 00:36:38,180

it makes no sense to ask if GMO crops

862

00:36:43,329 --> 00:36:40,730

are good or bad we have to look instead

863

00:36:46,329 --> 00:36:43,339

at the end product using genetic

864

00:36:49,059 --> 00:36:46,339

modification lets us for example copy

865

00:36:50,680 --> 00:36:49,069

and paste specific genes just as a

866

00:36:52,510 --> 00:36:50,690

computer lets you copy and paste

867

00:36:54,970 --> 00:36:52,520

paragraphs from one document to the

868

00:36:57,339 --> 00:36:54,980

other you can copy and paste a gene that

869

00:36:59,740 --> 00:36:57,349

makes the plant better or a gene that

870

00:37:02,260 --> 00:36:59,750

makes it worse you can copy and paste

871

00:37:03,730 --> 00:37:02,270

text to make an exciting book or a

872

00:37:06,550 --> 00:37:03,740

boring book

873

00:37:08,590 --> 00:37:06,560

one of the most common GMO crops is BT

874

00:37:11,109 --> 00:37:08,600

corn which stands for back sillas

875

00:37:13,270 --> 00:37:11,119

thuringiensis its purpose is to make the

876

00:37:16,090 --> 00:37:13,280

core naturally resistant to caterpillars

877

00:37:18,700 --> 00:37:16,100

without requiring a pesticide and to

878

00:37:20,830 --> 00:37:18,710

make BT corn we clipped one gene from a

879

00:37:23,920 --> 00:37:20,840

naturally occurring soil bacterium and

880

00:37:25,690 --> 00:37:23,930

pasted it into traditional chord that

881

00:37:28,420 --> 00:37:25,700

gene makes the corn produce a protein

882

00:37:30,520 --> 00:37:28,430

that causes caterpillars to stop eating

883

00:37:33,310 --> 00:37:30,530

simple we get a cord that's

884

00:37:35,200 --> 00:37:33,320

nutritionally unchanged and no pesticide

885

00:37:38,080 --> 00:37:35,210

has to be sprayed so the corns cleaner

886

00:37:40,720 --> 00:37:38,090

too so the next time someone tells you

887

00:37:43,300 --> 00:37:40,730

that GMO crops are either good or bad

888

00:37:45,490 --> 00:37:43,310

ask them which variety they're talking

889

00:37:47,980 --> 00:37:45,500

about just as you'd ask what book they

890

00:37:50,080 --> 00:37:47,990

liked ask them which gene conferred the

891

00:37:51,550 --> 00:37:50,090

trait they're concerned about just as

892

00:37:54,070 --> 00:37:51,560

you might ask about a character in the

893

00:37:55,859 --> 00:37:54,080

book chances are you'll reveal that they

894

00:37:58,420 --> 00:37:55,869

have no idea what they're talking about

895

00:38:00,790 --> 00:37:58,430

being written on a computer doesn't make

896

00:38:03,580 --> 00:38:00,800

a book good or bad and being developed

897

00:38:07,060 --> 00:38:03,590

with direct genetic manipulation doesn't

898

00:38:09,210 --> 00:38:07,070

make a plant good or bad before you jump

899

00:38:11,800 --> 00:38:09,220

onto any pop culture bandwagon

900

00:38:15,130 --> 00:38:11,810

understand the basic science and then

901
00:38:19,120 --> 00:38:15,140
make an informed jump I'm Brian Dunning

902
00:38:21,160 --> 00:38:19,130
and this has been in fact in fact is

903
00:38:23,710 --> 00:38:21,170
made possible by financial support from

904
00:38:33,489 --> 00:38:23,720
viewers like you please visit in fact

905
00:38:40,549 --> 00:38:36,469
ning xia shot induction skeptic zone

906
00:38:45,469 --> 00:38:40,559
basically su amiga one's escaped I talk

907
00:38:48,019 --> 00:38:45,479
on da CA n sceptile psychically podcast

908
00:38:51,109 --> 00:38:48,029
GMO a momentito with hardened sinner

909
00:38:54,079 --> 00:38:51,119
hearty pocket and Helios in the atlantic

910
00:38:57,859 --> 00:38:54,089
ocean in Mahwah New Jersey shenzhen

911
00:39:02,059 --> 00:38:57,869
chatty Lana cncl include ow itunes the

912
00:39:07,120 --> 00:39:02,069
Chihuahua Jan SATA sceptile fujisawa one

913
00:39:12,790 --> 00:39:10,420

thus kept I'd science podcast by brian

914

00:39:15,280 --> 00:39:12,800

dunning is now available for Chinese

915

00:39:18,250 --> 00:39:15,290

audience please tell your Chinese

916

00:39:21,190 --> 00:39:18,260

friends to visit skip toy duck hunters

917

00:39:25,270 --> 00:39:21,200

en a fine skipped hoid on the Chinese

918

00:39:39,090 --> 00:39:25,280

itunes door i'm lisa from sceptile calm

919

00:39:43,630 --> 00:39:42,070

this is Ben Radford I'm deputy editor of

920

00:39:45,700 --> 00:39:43,640

skeptical inquirer science magazine

921

00:39:47,710 --> 00:39:45,710

author of six books including tracking

922

00:39:59,950 --> 00:39:47,720

chupacabras and you can find out more

923

00:40:02,620 --> 00:39:59,960

about me at Benjamin Radford calm astral

924

00:40:04,210 --> 00:40:02,630

projection the idea that humans can

925

00:40:06,460 --> 00:40:04,220

leave their bodies during dream states

926
00:40:09,010 --> 00:40:06,470
is an ancient one countless people from

927
00:40:10,570 --> 00:40:09,020
New Agers to shaman to to the

928
00:40:12,430 --> 00:40:10,580
nineteenth-century occult philosopher

929
00:40:14,440 --> 00:40:12,440
Madame Blavatsky believe that it's

930
00:40:16,510 --> 00:40:14,450
possible to commune with cosmic

931
00:40:18,280 --> 00:40:16,520
intelligences through visions and vivid

932
00:40:20,080 --> 00:40:18,290
dreams experience during astral

933
00:40:23,170 --> 00:40:20,090
projection also known as out-of-body

934
00:40:25,120 --> 00:40:23,180
experiences study suggests that between

935
00:40:26,560 --> 00:40:25,130
eight and twenty percent of people claim

936
00:40:28,120 --> 00:40:26,570
to have had something like an

937
00:40:29,680 --> 00:40:28,130
out-of-body experience at some point in

938
00:40:31,960 --> 00:40:29,690

their lives a sensation of the

939

00:40:34,450 --> 00:40:31,970

consciousness spirit or astral body

940

00:40:36,310 --> 00:40:34,460

leaving the physical body while most

941

00:40:38,620 --> 00:40:36,320

experiences occur during sleep paralysis

942

00:40:39,970 --> 00:40:38,630

or under hypnosis some people claim to

943

00:40:42,520 --> 00:40:39,980

do it while they're merely relaxing

944

00:40:44,320 --> 00:40:42,530

according to one popular theory the

945

00:40:46,690 --> 00:40:44,330

astral body remains connected through a

946

00:40:49,450 --> 00:40:46,700

metaphorical silver cord which is sort

947

00:40:50,710 --> 00:40:49,460

of like an umbilical cord the tether is

948

00:40:53,020 --> 00:40:50,720

the roaming consciousness to the

949

00:40:55,720 --> 00:40:53,030

physical body though practiced for

950

00:40:57,310 --> 00:40:55,730

millennia these days astral travel can

951
00:40:59,080 --> 00:40:57,320
be big business a man named mark

952
00:41:03,070 --> 00:40:59,090
pritchard who goes by the more evocative

953
00:41:05,740 --> 00:41:03,080
moniker vm bill Zebub offers an online

954
00:41:08,140 --> 00:41:05,750
course and an end book on how to astral

955
00:41:10,840 --> 00:41:08,150
travel in eight weeks as he explains

956
00:41:12,609 --> 00:41:10,850
quote the astral is one of two planes in

957
00:41:14,590 --> 00:41:12,619
the fifth dimension it is where dreams

958
00:41:16,930 --> 00:41:14,600
occur where mystical teachings are given

959
00:41:19,120 --> 00:41:16,940
in where the deceased go you can meet

960
00:41:20,740 --> 00:41:19,130
spiritual beings in the astral discover

961
00:41:23,170 --> 00:41:20,750
a secret knowledge learn about yourself

962
00:41:25,450 --> 00:41:23,180
see where your spiritual obstacles and

963
00:41:28,210 --> 00:41:25,460

energy defects are learn hidden wisdoms

964

00:41:30,040 --> 00:41:28,220

about death the process of awakening get

965

00:41:31,990 --> 00:41:30,050

premonitions from the future receive

966

00:41:33,940 --> 00:41:32,000

guidance discover your purpose in life

967

00:41:36,550 --> 00:41:33,950

discover what really happens after death

968

00:41:38,770 --> 00:41:36,560

and much more it is something that

969

00:41:40,720 --> 00:41:38,780

really happens to you you actually find

970

00:41:42,880 --> 00:41:40,730

yourself in another dimension existing

971

00:41:44,470 --> 00:41:42,890

outside the physical world you'll be

972

00:41:46,390 --> 00:41:44,480

able to fly go through

973

00:41:48,160 --> 00:41:46,400

Austin objects meet people and travel to

974

00:41:51,160 --> 00:41:48,170

distant places it is a profound

975

00:41:54,220 --> 00:41:51,170

experience end quote sounds pretty

976
00:41:55,480 --> 00:41:54,230
exciting it's that really covers covers

977
00:41:58,060 --> 00:41:55,490
just about everything you might want to

978
00:42:00,760 --> 00:41:58,070
learn how would think about yourself and

979
00:42:02,290 --> 00:42:00,770
the world around you so you know it may

980
00:42:04,030 --> 00:42:02,300
be a profound experience but the

981
00:42:06,099 --> 00:42:04,040
fundamental problem is there's really no

982
00:42:08,080 --> 00:42:06,109
way to scientifically measure whether or

983
00:42:11,080 --> 00:42:08,090
not a person's spirit whatever that is

984
00:42:12,880 --> 00:42:11,090
leaves or enters the body the simplest

985
00:42:14,980 --> 00:42:12,890
and best explanation for out-of-body

986
00:42:17,470 --> 00:42:14,990
experiences is that the person is merely

987
00:42:19,030 --> 00:42:17,480
fantasizing and dreaming because there's

988
00:42:20,950 --> 00:42:19,040

no scientific evidence that the soul

989

00:42:22,510 --> 00:42:20,960

exists or for that matter that

990

00:42:24,849 --> 00:42:22,520

consciousness can exist inside of the

991

00:42:26,950 --> 00:42:24,859

brain the premise behind astral travel

992

00:42:28,480 --> 00:42:26,960

is rejected by scientists one of the

993

00:42:30,430 --> 00:42:28,490

most important scientific principles

994

00:42:32,230 --> 00:42:30,440

Occam's razor is that if you have a

995

00:42:34,030 --> 00:42:32,240

phenomena to be explained in several

996

00:42:36,099 --> 00:42:34,040

different theories that are proposed as

997

00:42:37,960 --> 00:42:36,109

solutions the simplest one or the one

998

00:42:40,210 --> 00:42:37,970

with the fewest assumptions is likely to

999

00:42:41,890 --> 00:42:40,220

be the correct answer one common

1000

00:42:43,570 --> 00:42:41,900

illustration of this is a statement when

1001
00:42:46,180 --> 00:42:43,580
someone says when you hear hoofbeats

1002
00:42:47,650 --> 00:42:46,190
think horses not unicorns or in this

1003
00:42:49,240 --> 00:42:47,660
case when you have a dream like

1004
00:42:51,810 --> 00:42:49,250
experience while sleeping and resting

1005
00:42:54,160 --> 00:42:51,820
think dreaming not astral projection

1006
00:42:55,870 --> 00:42:54,170
practitioners of astral travel insist

1007
00:42:57,490 --> 00:42:55,880
that it must be real because it seems so

1008
00:42:59,290 --> 00:42:57,500
vivid and because some of the

1009
00:43:01,450 --> 00:42:59,300
experiences are similar even for people

1010
00:43:03,400 --> 00:43:01,460
from different cultures but it's not

1011
00:43:04,810 --> 00:43:03,410
surprising that many people who try a so

1012
00:43:07,450 --> 00:43:04,820
travel may have similar experiences

1013
00:43:09,760 --> 00:43:07,460

after all that's what the term guided

1014

00:43:11,770 --> 00:43:09,770

imagery is it's when an authority such

1015

00:43:13,720 --> 00:43:11,780

as a psychologist or astral travel

1016

00:43:14,620 --> 00:43:13,730

teacher for example tells me what they

1017

00:43:17,020 --> 00:43:14,630

should experience when they're having

1018

00:43:19,990 --> 00:43:17,030

astral travel the power of suggestion

1019

00:43:21,849 --> 00:43:20,000

can be very powerful and in a person who

1020

00:43:23,800 --> 00:43:21,859

is told that they will encounter an

1021

00:43:26,349 --> 00:43:23,810

alien or godlike entity who imparts

1022

00:43:28,900 --> 00:43:26,359

cosmic wisdom is likely to imagine

1023

00:43:30,790 --> 00:43:28,910

exactly that the problem is there's no

1024

00:43:32,320 --> 00:43:30,800

evidence that those people who leave

1025

00:43:34,810 --> 00:43:32,330

their bodies are actually going anywhere

1026
00:43:36,790 --> 00:43:34,820
and certainly not anywhere on earth one

1027
00:43:38,859 --> 00:43:36,800
strong piece of evidence that the the

1028
00:43:40,599 --> 00:43:38,869
travel takes place inside the mind is

1029
00:43:42,490 --> 00:43:40,609
that those who returned from out of body

1030
00:43:45,190 --> 00:43:42,500
experiences can't give verifiable

1031
00:43:46,870 --> 00:43:45,200
details or information about the places

1032
00:43:49,870 --> 00:43:46,880
they've been or what they've seen if

1033
00:43:52,030 --> 00:43:49,880
real astral travel would be incredibly

1034
00:43:53,920 --> 00:43:52,040
useful there would be no need to send

1035
00:43:57,190 --> 00:43:53,930
humans into dangerous situations such as

1036
00:43:58,930 --> 00:43:57,200
the 2011 Fukushima Daiichi nuclear

1037
00:44:00,880 --> 00:43:58,940
disaster in Japan to find out what the

1038
00:44:03,400 --> 00:44:00,890

situation is or if for example a

1039

00:44:05,560 --> 00:44:03,410

meltdown is imminent instead engineers

1040

00:44:07,690 --> 00:44:05,570

should be able to simply visit the site

1041

00:44:09,430 --> 00:44:07,700

astrally to survey the damage and report

1042

00:44:11,920 --> 00:44:09,440

back without the dangers of radiation

1043

00:44:13,960 --> 00:44:11,930

contamination for that matter if

1044

00:44:15,700 --> 00:44:13,970

consciousnesses can fly go through walls

1045

00:44:17,530 --> 00:44:15,710

and circle the globe it should have been

1046

00:44:19,510 --> 00:44:17,540

a simple matter for astral projection

1047

00:44:21,400 --> 00:44:19,520

teams to locate Osama bin Laden during

1048

00:44:23,230 --> 00:44:21,410

his decade of hiding out in Pakistan and

1049

00:44:25,140 --> 00:44:23,240

save innocent lives not to mention

1050

00:44:27,609 --> 00:44:25,150

collecting in 25 million dollar award

1051
00:44:29,920 --> 00:44:27,619
the distant Carnac consciousnesses a

1052
00:44:31,780 --> 00:44:29,930
bilingual astral projecting spies could

1053
00:44:33,220 --> 00:44:31,790
easily visit top secret facilities

1054
00:44:34,960 --> 00:44:33,230
around the world and return with

1055
00:44:36,940 --> 00:44:34,970
important information about everything

1056
00:44:40,060 --> 00:44:36,950
from corporate trade secrets to military

1057
00:44:41,800 --> 00:44:40,070
nuclear codes if astral bodies truly can

1058
00:44:44,079 --> 00:44:41,810
visit other planets there seems to be

1059
00:44:46,060 --> 00:44:44,089
little need for the 2.5 billion dollars

1060
00:44:47,859 --> 00:44:46,070
spent on the Mars rovers since

1061
00:44:50,260 --> 00:44:47,869
scientists could simply travel there

1062
00:44:51,849 --> 00:44:50,270
astrally drink dreams and provide

1063
00:44:54,780 --> 00:44:51,859

detailed information about the geography

1064

00:44:56,620 --> 00:44:54,790

soil composition and ecology of Mars

1065

00:44:58,540 --> 00:44:56,630

according to researcher sue Blackmore

1066

00:45:00,339 --> 00:44:58,550

author of beyond the body an

1067

00:45:02,920 --> 00:45:00,349

investigation into out-of-body

1068

00:45:04,900 --> 00:45:02,930

experiences people who experience astral

1069

00:45:06,700 --> 00:45:04,910

travel quote have been found to score

1070

00:45:09,099 --> 00:45:06,710

higher on measures of hypnotizability

1071

00:45:11,170 --> 00:45:09,109

and in several surveys on measures of

1072

00:45:12,609 --> 00:45:11,180

absorption which is a measure of a

1073

00:45:14,349 --> 00:45:12,619

person's ability to pay complete

1074

00:45:15,970 --> 00:45:14,359

attention to something and become

1075

00:45:18,309 --> 00:45:15,980

immersed in it even if it's not real

1076

00:45:21,040 --> 00:45:18,319

like a play film or imagined event in

1077

00:45:23,230 --> 00:45:21,050

quote out-of-body experiences are a more

1078

00:45:25,510 --> 00:45:23,240

imaginative suggestible and fantasy

1079

00:45:27,520 --> 00:45:25,520

prone than average though they have low

1080

00:45:29,410 --> 00:45:27,530

levels of drug alcohol use and no

1081

00:45:32,050 --> 00:45:29,420

obvious signs of psychopathology or

1082

00:45:33,790 --> 00:45:32,060

mental illness it's also possible that

1083

00:45:35,740 --> 00:45:33,800

some of the out-of-body experiences of a

1084

00:45:38,349 --> 00:45:35,750

result of dreaming during what's called

1085

00:45:40,900 --> 00:45:38,359

micro sleep falling asleep for anywhere

1086

00:45:43,120 --> 00:45:40,910

from a fraction of a second to maybe half

1087

00:45:45,250 --> 00:45:43,130

a minute and not realizing it this is

1088

00:45:46,480 --> 00:45:45,260

common when people are tired relaxing or

1089

00:45:49,210 --> 00:45:46,490

doing tedious activities such as

1090

00:45:50,859 --> 00:45:49,220

long-haul trucking in some cases the

1091

00:45:52,540 --> 00:45:50,869

person may believe they've been out of

1092

00:45:54,400 --> 00:45:52,550

their bodies for minutes or even hours

1093

00:45:57,010 --> 00:45:54,410

when in fact they simply experienced

1094

00:45:58,630 --> 00:45:57,020

micro sleeps if a believer in astral

1095

00:46:00,520 --> 00:45:58,640

projection has a sudden unexplainable

1096

00:46:01,990 --> 00:46:00,530

and vivid dream and doesn't know they

1097

00:46:05,430 --> 00:46:02,000

were asleep this could easily be

1098

00:46:08,020 --> 00:46:05,440

interpreted as an out-of-body experience

1099

00:46:09,520 --> 00:46:08,030

though astral projection practitioners

1100

00:46:11,050 --> 00:46:09,530

are convinced their experiences are real

1101

00:46:12,670 --> 00:46:11,060

and not merely dreams or fan

1102

00:46:15,520 --> 00:46:12,680

cease their evidence is all anecdotal

1103

00:46:17,200 --> 00:46:15,530

just as a person takes peyote or LSD may

1104

00:46:19,270 --> 00:46:17,210

be truly convinced that they interacted

1105

00:46:21,190 --> 00:46:19,280

with God dead people or angels while in

1106

00:46:23,200 --> 00:46:21,200

an altered state it's not a coincidence

1107

00:46:27,160 --> 00:46:23,210

that drug users refer to a psychedelic

1108

00:46:28,960 --> 00:46:27,170

experience as a trip astral projection

1109

00:46:30,850 --> 00:46:28,970

is an entertaining and harmless pastime

1110

00:46:33,370 --> 00:46:30,860

that can seem profound and in some cases

1111

00:46:34,870 --> 00:46:33,380

even life-changing but there's no

1112

00:46:36,430 --> 00:46:34,880

evidence that out-of-body experiences

1113

00:46:50,010 --> 00:46:36,440

happen outside the body instead of

1114

00:46:54,430 --> 00:46:52,840

the hand side is a podcast of the

1115

00:46:57,580 --> 00:46:54,440

monthly lectures run back camera

1116

00:46:59,440 --> 00:46:57,590

skeptics incorporating each month camera

1117

00:47:01,240 --> 00:46:59,450

skeptics provides experts in their field

1118

00:47:04,600 --> 00:47:01,250

ruined you from science and philosophy

1119

00:47:06,180 --> 00:47:04,610

to politics and national security with

1120

00:47:10,630 --> 00:47:06,190

an opportunity to present their views

1121

00:47:14,620 --> 00:47:10,640

you can find us at WWE embryo skeptics

1122

00:47:32,230 --> 00:47:14,630

org dot a you the hand surg cameras kept

1123

00:47:37,970 --> 00:47:34,730

thank you for listening to the skeptic

1124

00:47:40,010 --> 00:47:37,980

zone I'm feeling much better hopefully I

1125

00:47:44,990 --> 00:47:40,020

won't need the services of simulated

1126

00:47:48,559 --> 00:47:45,000

human voice again hopefully actually

1127

00:47:51,230 --> 00:47:48,569

she's not that bad Cesar she follows

1128

00:47:55,450 --> 00:47:51,240

instructions I'll give her that coming

1129

00:48:00,319 --> 00:47:55,460

up on next week's show I don't know hmm

1130

00:48:03,170 --> 00:48:00,329

maybe solar flare we can only hope soon

1131

00:48:05,420 --> 00:48:03,180

anyway I promise soon but I can tell you

1132

00:48:06,819 --> 00:48:05,430

one thing over the next few months

1133

00:48:08,870 --> 00:48:06,829

you're going to be hearing many

1134

00:48:11,539 --> 00:48:08,880

interesting interviews from my trips

1135

00:48:15,380 --> 00:48:11,549

around Europe let's see Germany Norway

1136

00:48:18,020 --> 00:48:15,390

Ireland the UK and Czech Republic i

1137

00:48:19,760 --> 00:48:18,030

think i think i can get some very

1138

00:48:22,490 --> 00:48:19,770

interesting interviews and insights for

1139

00:48:25,010 --> 00:48:22,500

you over the next few weeks which we can

1140

00:48:27,380 --> 00:48:25,020

all enjoy over the next few months if my

1141

00:48:29,950 --> 00:48:27,390

voice lasts that long if it doesn't well

1142

00:48:33,410 --> 00:48:29,960

then i might just get simulated human

1143

00:48:35,059 --> 00:48:33,420

for all right folks thanks for listening

1144

00:48:36,769 --> 00:48:35,069

to the skeptic zone once again and a big

1145

00:48:39,589 --> 00:48:36,779

THANK YOU a very big thank you to those

1146

00:48:42,890 --> 00:48:39,599

people who chip in only a dollar a week

1147

00:48:44,390 --> 00:48:42,900

to help put the show out to help buy any

1148

00:48:47,390 --> 00:48:44,400

equipment like the microphone I'm using

1149

00:48:50,809 --> 00:48:47,400

at the moment it really does make a big

1150

00:48:55,609 --> 00:48:50,819

difference so until next week this is

1151

00:49:01,760 --> 00:48:55,619

Richard Saunders woof signing off from

1152

00:49:03,980 --> 00:49:01,770

Sydney Australia you've been listening

1153

00:49:08,810 --> 00:49:03,990

to the skeptic zone

1154

00:49:11,840 --> 00:49:08,820

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