

1
00:00:06,139 --> 00:00:13,689
welcome to the skeptic zone the podcast

2
00:00:09,109 --> 00:00:13,689
from Australia for science and reason

3
00:00:22,230 --> 00:00:30,130
hello and welcome to the skeptic zone

4
00:00:25,028 --> 00:00:32,710
podcast 231 for the 23rd of March 2013

5
00:00:30,129 --> 00:00:34,659
I'm a simulated human voice standing

6
00:00:32,710 --> 00:00:37,239
inflation alright simulated human it's

7
00:00:34,659 --> 00:00:39,399
okay I'm feeling a lot better I can I

8
00:00:37,238 --> 00:00:41,738
can do the show this week are you sure

9
00:00:39,399 --> 00:00:44,198
yes I think I can manage that thank you

10
00:00:41,738 --> 00:00:47,349
thank you very much i'm almost better

11
00:00:44,198 --> 00:00:50,079
you know i'm nearly over the cold i see

12
00:00:47,350 --> 00:00:52,600
well i think you need to see a simulated

13
00:00:50,079 --> 00:00:55,509
doctor I know a homeopath that might

14
00:00:52,600 --> 00:00:57,120
help yes I know homeopaths the simulated

15
00:00:55,509 --> 00:01:01,238
doctors but it's alright I think I'll

16
00:00:57,119 --> 00:01:03,099
struggle on all right then oh thanks to

17
00:01:01,238 --> 00:01:05,590
all those own listeners who sent me fan

18
00:01:03,100 --> 00:01:08,140
mail from last week I'll just go away

19
00:01:05,590 --> 00:01:09,969
now yeah thanks thanks a lot yes it's

20
00:01:08,140 --> 00:01:12,909
the skeptic zone Richard Saunders here

21
00:01:09,969 --> 00:01:14,560
back with you again almost better almost

22
00:01:12,909 --> 00:01:16,060
been a bit of a rough week with the old

23
00:01:14,560 --> 00:01:18,579
coughs and the colds and all that sort

24
00:01:16,060 --> 00:01:22,030
of thing but never mind coming up on

25
00:01:18,579 --> 00:01:23,950
this week's show I interviewed dr. Steve

26
00:01:22,030 --> 00:01:25,390
novella from the skeptics guide to the

27
00:01:23,950 --> 00:01:28,180
universe Steve's going to tell us about

28
00:01:25,390 --> 00:01:30,759
reaching the great milestone of 400

29

00:01:28,180 --> 00:01:33,040
episodes and other background bits and

30
00:01:30,759 --> 00:01:35,769
pieces with the skeptics guide to the

31
00:01:33,040 --> 00:01:37,450
universe after that it's a week in

32
00:01:35,769 --> 00:01:39,310
science with our good friend dr. Paul

33
00:01:37,450 --> 00:01:44,310
Willis from the Royal Institution in

34
00:01:39,310 --> 00:01:47,140
Adelaide are I a u.s. org dot a you and

35
00:01:44,310 --> 00:01:50,799
then we have Brian Dunning with his

36
00:01:47,140 --> 00:01:53,468
latest episode of in fact the video

37
00:01:50,799 --> 00:01:57,310
series well the audio is quite good too

38
00:01:53,468 --> 00:02:01,328
and Brian looks at genetically modified

39
00:01:57,310 --> 00:02:05,019
food GM food frankenstein food it's been

40
00:02:01,328 --> 00:02:06,669
called coming up with Brian Dunning and

41
00:02:05,019 --> 00:02:10,538
then to wrap up the show we have a guest

42
00:02:06,670 --> 00:02:13,870
editorial from Benjamin Radford Benjamin

43
00:02:10,538 --> 00:02:17,889

Radford and his comments and thoughts on

44

00:02:13,870 --> 00:02:20,920
astral projection leaving the body

45

00:02:17,889 --> 00:02:24,339
floating around and coming back and well

46

00:02:20,919 --> 00:02:26,048
that's the claim anyway now thank you to

47

00:02:24,340 --> 00:02:27,400
all the listeners who wrote to me in the

48

00:02:26,049 --> 00:02:30,069
course of the week saying how much they

49

00:02:27,400 --> 00:02:33,800
enjoyed the last episode the on the spot

50

00:02:30,069 --> 00:02:35,539
the field reporting from the water

51

00:02:33,800 --> 00:02:38,360
lining tests with skeptics and water

52

00:02:35,539 --> 00:02:39,769
diviners I must admit I really enjoyed

53

00:02:38,360 --> 00:02:43,250
making the episode and certainly I

54

00:02:39,770 --> 00:02:45,670
enjoyed being there on the spot doing

55

00:02:43,250 --> 00:02:49,129
the interviews and a big shout out to

56

00:02:45,669 --> 00:02:51,799
ron Proctor who is the production

57

00:02:49,129 --> 00:02:54,859
coordinator at the odd planetarium Weber

58
00:02:51,800 --> 00:02:56,510
State University in Utah and runners

59
00:02:54,860 --> 00:02:59,120
kindly invited me to tour his

60
00:02:56,509 --> 00:03:02,840
planetarium if I ever get to Utah run if

61
00:02:59,120 --> 00:03:05,480
I ever do i will now those people in

62
00:03:02,840 --> 00:03:08,450
sydney still have time to grab your

63
00:03:05,479 --> 00:03:11,030
tickets to see Shawn Faircloth on the

64
00:03:08,449 --> 00:03:15,079
twenty-fourth of March at the Sydney

65
00:03:11,030 --> 00:03:16,520
Opera House now the best way to grab

66
00:03:15,080 --> 00:03:18,770
your tickets and find out more

67
00:03:16,520 --> 00:03:20,630
information is simply Google Shawn fair

68
00:03:18,770 --> 00:03:23,870
cloths in the Opera House or go to

69
00:03:20,629 --> 00:03:25,669
Sydney Opera House calm and right on the

70
00:03:23,870 --> 00:03:30,230
front page at the moment our details

71
00:03:25,669 --> 00:03:33,079
about that upcoming talk now full listen

72
00:03:30,229 --> 00:03:35,719
is in Norway in Oslo I'm delighted to

73
00:03:33,080 --> 00:03:39,350
say that I've been asked to appear at

74
00:03:35,719 --> 00:03:42,620
skeptics in the pub on the 6th of April

75
00:03:39,349 --> 00:03:45,139
the sixth of April Norway Oslo skeptics

76
00:03:42,620 --> 00:03:48,020
in the pub more details about that

77
00:03:45,139 --> 00:03:49,759
coming up in the next few weeks although

78
00:03:48,020 --> 00:03:52,700
if you are living in Oslo I'm sure you

79
00:03:49,759 --> 00:03:54,909
know how to get to the the various

80
00:03:52,699 --> 00:03:57,379
information about skeptics in the pub

81
00:03:54,909 --> 00:03:59,750
I'm also delighted to say that i'll be

82
00:03:57,379 --> 00:04:02,840
speaking in dublin a few days a few

83
00:03:59,750 --> 00:04:05,930
nights later on haven't quite nailed the

84
00:04:02,840 --> 00:04:08,689
date down just yet but keep your eyes

85
00:04:05,930 --> 00:04:11,150
open run to the internet if you're in

86

00:04:08,689 --> 00:04:13,609
Dublin ask your local skeptics I'm sure

87
00:04:11,150 --> 00:04:17,899
they'll be able to fill you in and after

88
00:04:13,610 --> 00:04:19,639
that i'll be at QED in Manchester let's

89
00:04:17,899 --> 00:04:22,849
see when do I get to sleep I'm not sure

90
00:04:19,639 --> 00:04:25,099
because after that after QED of course

91
00:04:22,850 --> 00:04:27,710
i'm off to the wonderful science

92
00:04:25,100 --> 00:04:29,810
festival in Alma look in the Czech

93
00:04:27,709 --> 00:04:32,109
Republic and that's going from the

94
00:04:29,810 --> 00:04:36,350
sixteenth to the twenty first of April a

95
00:04:32,110 --> 00:04:39,620
fo dot C Z is the website that i

96
00:04:36,350 --> 00:04:42,550
encourage you to visit oh there's even a

97
00:04:39,620 --> 00:04:44,990
picture of me science will meet myth

98
00:04:42,550 --> 00:04:46,910
richardsaunders will participate it says

99
00:04:44,990 --> 00:04:47,689
well I hope so I'm going to be

100
00:04:46,910 --> 00:04:50,479

introducing

101

00:04:47,689 --> 00:04:52,249

some of our Richard Dawkins videos the

102

00:04:50,478 --> 00:04:54,468

enemies of reasons I'm very much looking

103

00:04:52,249 --> 00:04:56,389

forward to that what an honor also very

104

00:04:54,468 --> 00:05:00,079

honored to be introducing here be

105

00:04:56,389 --> 00:05:01,879

dragons by Brian Dunning i'll also be

106

00:05:00,079 --> 00:05:05,149

judging some of the international films

107

00:05:01,879 --> 00:05:07,819

giving origami lessons and doing a water

108

00:05:05,149 --> 00:05:11,209

divining test as much as I can possibly

109

00:05:07,819 --> 00:05:14,209

pack in and very very happy to be a

110

00:05:11,209 --> 00:05:17,329

guest at this wonderful festival afo the

111

00:05:14,209 --> 00:05:23,749

48 International Festival of science

112

00:05:17,329 --> 00:05:26,360

documentary films please visit WWE for

113

00:05:23,749 --> 00:05:28,489

more information and if you're in the

114

00:05:26,360 --> 00:05:30,588

Czech Republic know if you're in Germany

115
00:05:28,488 --> 00:05:33,038
now let's just face it if you're

116
00:05:30,588 --> 00:05:35,028
anywhere in Europe try to come along

117
00:05:33,038 --> 00:05:36,618
well I don't think I've done so much

118
00:05:35,028 --> 00:05:39,649
talking in the last week and my voice is

119
00:05:36,619 --> 00:05:41,389
already beginning to um yeah it's just

120
00:05:39,649 --> 00:05:44,088
on the edge I better be careful i have

121
00:05:41,389 --> 00:05:46,338
to be nice and nice and wealth on my big

122
00:05:44,088 --> 00:05:48,738
trips coming up so I'm going to sit back

123
00:05:46,338 --> 00:05:50,928
Wow exhale run to the fridge no one run

124
00:05:48,738 --> 00:05:54,078
to the fridge i'll run to um I'll renter

125
00:05:50,928 --> 00:05:56,718
the the kettle mmm chicken soup that's

126
00:05:54,079 --> 00:05:59,989
the way not homeopathic just normal

127
00:05:56,718 --> 00:06:03,788
chicken soup sip some of that while we

128
00:05:59,988 --> 00:06:03,788
all listen to the skeptics am

129
00:06:18,199 --> 00:06:24,509
and joining me now on the line from the

130
00:06:21,720 --> 00:06:26,580
beautiful east coast of the United

131
00:06:24,509 --> 00:06:28,949
States up in New England dr. Steve

132
00:06:26,579 --> 00:06:31,439
novella hello Steve hey Richard how you

133
00:06:28,949 --> 00:06:33,180
doing not too bad Steve but you know

134
00:06:31,439 --> 00:06:34,800
sometimes I wish you were my next-door

135
00:06:33,180 --> 00:06:37,139
neighbor so I can knock on your door and

136
00:06:34,800 --> 00:06:39,600
say Steve I've got a slight cough and a

137
00:06:37,139 --> 00:06:41,399
cold and what can you recommend for me

138
00:06:39,600 --> 00:06:43,860
but but I'm on the mend I'm not doing so

139
00:06:41,399 --> 00:06:46,529
bad well you can always scape me if you

140
00:06:43,860 --> 00:06:48,420
have any medical questions I wish I'd

141
00:06:46,529 --> 00:06:50,279
known that a week ago and all right

142
00:06:48,420 --> 00:06:52,620
we'll talk offline we'll talk of life

143

00:06:50,279 --> 00:06:54,359
Steve look let me congratulate you on

144
00:06:52,620 --> 00:06:57,810
behalf of all the skeptics on listeners

145
00:06:54,360 --> 00:06:59,069
who I know many of whom are great fans

146
00:06:57,810 --> 00:07:02,790
of the skeptics guide to the universe

147
00:06:59,069 --> 00:07:05,009
for 400 episodes now that's thank you

148
00:07:02,790 --> 00:07:09,600
that's quite an achievement in anybody's

149
00:07:05,009 --> 00:07:11,819
book yeah it's we're pretty happy that

150
00:07:09,600 --> 00:07:14,070
we survived for this long you know would

151
00:07:11,819 --> 00:07:16,250
have been unbelievable eight years ago

152
00:07:14,069 --> 00:07:18,750
to think that we would have cranked out

153
00:07:16,250 --> 00:07:21,449
400 episodes just seems completely

154
00:07:18,750 --> 00:07:24,389
daunting but I guess it's just a matter

155
00:07:21,449 --> 00:07:27,060
of our perseverance and consistency you

156
00:07:24,389 --> 00:07:29,069
know I think you've hit the two key

157
00:07:27,060 --> 00:07:32,490

aspects of doing a podcast and certainly

158

00:07:29,069 --> 00:07:34,319

crosses my mind and we're in the same

159

00:07:32,490 --> 00:07:36,139

situation I guess we both produce the

160

00:07:34,319 --> 00:07:38,699

show and we both know that every week

161

00:07:36,139 --> 00:07:40,620

there needs to be a show come out and I

162

00:07:38,699 --> 00:07:43,709

guess it really does teach you some

163

00:07:40,620 --> 00:07:46,500

discipline yeah it's you know absolutely

164

00:07:43,709 --> 00:07:48,899

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

165

00:07:46,500 --> 00:07:50,699

to you have to as you say be disciplined

166

00:07:48,899 --> 00:07:52,319

you have to pitch but gotta be part of

167

00:07:50,699 --> 00:07:54,089

your schedule you can't just do it when

168

00:07:52,319 --> 00:07:57,529

you have time somewhere it's got to be

169

00:07:54,089 --> 00:07:59,909

absolutely built into your schedule and

170

00:07:57,529 --> 00:08:03,089

our shows are very different of course

171

00:07:59,910 --> 00:08:05,250

we're miners varies from interviews to

172
00:08:03,089 --> 00:08:07,709
field reports to do items and things

173
00:08:05,250 --> 00:08:09,290
yours is really based on the fact that

174
00:08:07,709 --> 00:08:12,449
the five of you can get together

175
00:08:09,290 --> 00:08:14,370
wherever possible sometimes one or two

176
00:08:12,449 --> 00:08:17,430
of you have to duck out for whatever

177
00:08:14,370 --> 00:08:19,410
reason and discuss skeptical and

178
00:08:17,430 --> 00:08:21,360
scientific issues of the day which also

179
00:08:19,410 --> 00:08:23,340
means that your team have to be somewhat

180
00:08:21,360 --> 00:08:25,020
disciplined to

181
00:08:23,339 --> 00:08:27,959
yeah I mean sometimes takes a little

182
00:08:25,019 --> 00:08:29,339
cracking of the whip to keep keep

183
00:08:27,959 --> 00:08:31,168
pushing it forward there's always that

184
00:08:29,339 --> 00:08:32,728
there always has to be for any project

185
00:08:31,168 --> 00:08:35,189
I've come to believe there's got to be

186
00:08:32,729 --> 00:08:38,669
one person that's totally uncompromising

187
00:08:35,190 --> 00:08:40,589
and makes it happen no matter what but I

188
00:08:38,668 --> 00:08:42,360
have a good crew they work really hard

189
00:08:40,589 --> 00:08:45,420
they're there every week they there they

190
00:08:42,360 --> 00:08:48,930
prep their items they always come with a

191
00:08:45,419 --> 00:08:50,610
good attitude and the the we enjoy being

192
00:08:48,929 --> 00:08:52,979
together on the show you know it's a lot

193
00:08:50,610 --> 00:08:54,810
of fun the best stuff of course is the

194
00:08:52,980 --> 00:08:57,000
stuff that happens offline this the

195
00:08:54,809 --> 00:08:59,579
things that when we're chatting or we go

196
00:08:57,000 --> 00:09:01,379
off script to the to a little bit too

197
00:08:59,580 --> 00:09:03,900
much and it's stuff that really can't

198
00:09:01,379 --> 00:09:06,929
make it into the show itself but it's

199
00:09:03,899 --> 00:09:08,639
those tend to be the funniest moments

200

00:09:06,929 --> 00:09:10,409
but that's what you know that's what

201
00:09:08,639 --> 00:09:13,379
keeps our spirits up and keeps it keeps

202
00:09:10,409 --> 00:09:14,969
us going oh I think that's that's a

203
00:09:13,379 --> 00:09:17,639
great attitude to have it and I know

204
00:09:14,970 --> 00:09:19,589
because I've been of course very lucky

205
00:09:17,639 --> 00:09:21,389
and honored to be a guest wrote from

206
00:09:19,589 --> 00:09:23,070
time to time I know that when we're

207
00:09:21,389 --> 00:09:25,080
recording some episodes there's a lot of

208
00:09:23,070 --> 00:09:26,820
laughter and chatting and things that

209
00:09:25,080 --> 00:09:29,220
you can't use the go on behind the

210
00:09:26,820 --> 00:09:31,650
scenes yeah you've seen how the sausage

211
00:09:29,220 --> 00:09:33,990
is made it rain I have and I've also

212
00:09:31,649 --> 00:09:36,360
been privy to a skeptic's guide to the

213
00:09:33,990 --> 00:09:39,778
universe meeting at I think this is the

214
00:09:36,360 --> 00:09:42,028

last time where we were in a room trying

215

00:09:39,778 --> 00:09:43,080

to nut out the the live show and and

216

00:09:42,028 --> 00:09:45,088

that could be quite an interesting

217

00:09:43,080 --> 00:09:47,040

experience I think listeners of your

218

00:09:45,089 --> 00:09:49,380

show would probably pay tickets to be in

219

00:09:47,039 --> 00:09:52,799

that room yeah we're just brainstorming

220

00:09:49,379 --> 00:09:54,259

what to talk about yeah yeah yeah it's

221

00:09:52,799 --> 00:09:56,519

interesting you know it's a process

222

00:09:54,259 --> 00:10:00,120

obviously we've done it quite a few

223

00:09:56,519 --> 00:10:02,000

times so we've got it down pretty well

224

00:10:00,120 --> 00:10:05,100

again everybody sort of knows their role

225

00:10:02,000 --> 00:10:06,778

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

226

00:10:05,100 --> 00:10:10,259

even I mean anybody could do anything

227

00:10:06,778 --> 00:10:12,480

really is the interesting thing the you

228

00:10:10,259 --> 00:10:14,970

know Jay and Bob and Rebecca and Evan

229
00:10:12,480 --> 00:10:17,310
have the things that they're that their

230
00:10:14,970 --> 00:10:19,259
specialties that they're specialists in

231
00:10:17,309 --> 00:10:22,319
in terms of the kind of content they

232
00:10:19,259 --> 00:10:24,000
like to produce but really anybody any

233
00:10:22,320 --> 00:10:26,220
of them could talk about anything and I

234
00:10:24,000 --> 00:10:27,990
particularly enjoy the topics that I

235
00:10:26,220 --> 00:10:29,370
assigned to everybody where it's okay

236
00:10:27,990 --> 00:10:31,409
everyone's got to read up on this guy

237
00:10:29,370 --> 00:10:34,500
wanted I want this to be a five-way

238
00:10:31,409 --> 00:10:36,818
discussion now not one person necessary

239
00:10:34,500 --> 00:10:39,339
to necessarily taking the lead

240
00:10:36,818 --> 00:10:41,938
right and I certainly remember that when

241
00:10:39,339 --> 00:10:44,049
I was involved that you gave me little

242
00:10:41,938 --> 00:10:45,998
tasks and things that you wanted me to

243
00:10:44,048 --> 00:10:47,739
cover on the live show and I'll just

244
00:10:45,999 --> 00:10:49,689
just reaching back into my memory now I

245
00:10:47,739 --> 00:10:54,399
think it was partly to do with the the

246
00:10:49,688 --> 00:10:56,108
the fake bomb detector kits yeah yeah at

247
00:10:54,399 --> 00:10:58,720
the time which is a terrible story and

248
00:10:56,109 --> 00:11:00,699
also the moon's the number of moons in

249
00:10:58,720 --> 00:11:03,309
the solar system for some reason i

250
00:11:00,698 --> 00:11:05,678
remember well we blew toe had two and

251
00:11:03,308 --> 00:11:08,678
new moons and we've sort of chatting

252
00:11:05,678 --> 00:11:10,178
about moons in general yeah right so it

253
00:11:08,678 --> 00:11:12,038
really is a mixed bag any and everything

254
00:11:10,178 --> 00:11:13,088
and anything can come up on the skeptics

255
00:11:12,038 --> 00:11:15,548
guide to the universe and I suppose

256
00:11:13,089 --> 00:11:17,529
that's part of the appeal part of the

257

00:11:15,548 --> 00:11:19,028
success of the show us from week to week

258
00:11:17,528 --> 00:11:20,859
listeners are never quite sure what

259
00:11:19,028 --> 00:11:22,928
they're going to get but in the way of

260
00:11:20,859 --> 00:11:25,269
topics yeah there's really only one

261
00:11:22,928 --> 00:11:28,629
criterion and that is I have to find it

262
00:11:25,269 --> 00:11:30,399
interesting that's if I if I think I

263
00:11:28,629 --> 00:11:31,778
would enjoy hearing about it or talking

264
00:11:30,399 --> 00:11:34,328
about it and I think it would be fun

265
00:11:31,778 --> 00:11:37,178
then that that's the absolute minimum

266
00:11:34,328 --> 00:11:39,758
you know criterion then on top of that

267
00:11:37,178 --> 00:11:41,788
you know there is there are parameters

268
00:11:39,759 --> 00:11:44,979
in terms of what topics we will cover

269
00:11:41,788 --> 00:11:46,688
you know we try to stay away from things

270
00:11:44,979 --> 00:11:48,699
that are like purely political for

271
00:11:46,688 --> 00:11:50,259

example there has to be I guess the

272

00:11:48,698 --> 00:11:53,588

other the other criterion to be there's

273

00:11:50,259 --> 00:11:57,369

got to just be some angle that is

274

00:11:53,589 --> 00:11:59,109

science or critical thinking and that's

275

00:11:57,369 --> 00:12:01,298

it and sometimes like Bob or somebody

276

00:11:59,109 --> 00:12:02,979

will pitch a story to me I'm like okay

277

00:12:01,298 --> 00:12:05,978

so what's the scientific angle there

278

00:12:02,979 --> 00:12:07,329

what yr elicitors interested in that you

279

00:12:05,979 --> 00:12:09,249

know what are we going to talk about

280

00:12:07,328 --> 00:12:11,649

what you know how are we going to delve

281

00:12:09,249 --> 00:12:13,449

deep into that and if they can't answer

282

00:12:11,649 --> 00:12:15,548

that question or I can't think of what

283

00:12:13,448 --> 00:12:16,748

the answer is then we don't talk about

284

00:12:15,548 --> 00:12:19,749

it you know even though it might be

285

00:12:16,749 --> 00:12:22,658

something that may be interesting for

286
00:12:19,749 --> 00:12:25,319
other reasons I think that you and I

287
00:12:22,658 --> 00:12:27,428
have the same mind here I also have my

288
00:12:25,318 --> 00:12:28,988
friends and reporters will come to me

289
00:12:27,428 --> 00:12:30,249
when sometimes I'll say well why don't

290
00:12:28,989 --> 00:12:32,709
we do this that or the other and I say

291
00:12:30,249 --> 00:12:35,619
that's great where's the angle you know

292
00:12:32,708 --> 00:12:37,358
where is the skeptical low or the you

293
00:12:35,619 --> 00:12:40,178
know interesting scientific angle we can

294
00:12:37,359 --> 00:12:41,470
exploit here because otherwise I guess

295
00:12:40,178 --> 00:12:45,249
we could have a show about just about

296
00:12:41,470 --> 00:12:49,059
any topic under the Sun yeah no yeah

297
00:12:45,249 --> 00:12:50,528
absolutely you know we do even we branch

298
00:12:49,058 --> 00:12:52,179
out we experiment

299
00:12:50,528 --> 00:12:54,818
some of our experiments fail that's okay

300
00:12:52,179 --> 00:12:56,409
thank you know you have a and we have

301
00:12:54,818 --> 00:12:57,938
enough of a long enough for Matt we've

302
00:12:56,409 --> 00:13:01,269
done enough shows that we can afford to

303
00:12:57,938 --> 00:13:02,948
experiment and not be afraid if if a bit

304
00:13:01,269 --> 00:13:05,159
doesn't go well but you know like we

305
00:13:02,948 --> 00:13:08,378
reviewed a movie you know we did

306
00:13:05,159 --> 00:13:09,909
Prometheus Ryan that was different but

307
00:13:08,379 --> 00:13:11,409
that our listeners loved it they're

308
00:13:09,909 --> 00:13:12,789
asking us to do more movies and we're

309
00:13:11,409 --> 00:13:14,110
going to do it because it worked out

310
00:13:12,789 --> 00:13:15,639
what it worked out really well we had a

311
00:13:14,110 --> 00:13:17,829
lot of fun and I think when we have fun

312
00:13:15,639 --> 00:13:20,318
or listeners have fun now why would

313
00:13:17,828 --> 00:13:22,419
chatting about the the team let me give

314

00:13:20,318 --> 00:13:23,948
a special shout-out well say hello to

315
00:13:22,419 --> 00:13:25,389
all the team of the skeptic guide to the

316
00:13:23,948 --> 00:13:28,028
University of your all my dear friends

317
00:13:25,389 --> 00:13:31,269
but I just want to have a quick shout

318
00:13:28,028 --> 00:13:35,139
out to Jay of course being a first-time

319
00:13:31,269 --> 00:13:37,448
recent father that's right there he has

320
00:13:35,139 --> 00:13:41,948
a son Dylan with his wife Courtney just

321
00:13:37,448 --> 00:13:44,378
a five weeks old now six weeks old cute

322
00:13:41,948 --> 00:13:46,058
as a button of course you know beef you

323
00:13:44,379 --> 00:13:48,550
listen to the show you've heard his

324
00:13:46,058 --> 00:13:50,980
squeaky voice yes I couldn't reserves

325
00:13:48,549 --> 00:13:53,139
resist playing it a proud new debt and

326
00:13:50,980 --> 00:13:55,058
yeah Jay is loving it he's having a

327
00:13:53,139 --> 00:13:57,879
great time he's totally sleep deprived

328
00:13:55,058 --> 00:14:00,338

and which is interesting because he's

329

00:13:57,879 --> 00:14:06,970

you know Jays mental faculties

330

00:14:00,339 --> 00:14:09,160

definitely show the wear but he's uh you

331

00:14:06,970 --> 00:14:11,259

know when he shows up for the show he's

332

00:14:09,159 --> 00:14:14,049

still Jay but I could tell that he's

333

00:14:11,259 --> 00:14:16,870

like just completely completely

334

00:14:14,049 --> 00:14:22,539

sleep-deprived you know well no shock

335

00:14:16,870 --> 00:14:23,948

though yeah but but he and Courtney are

336

00:14:22,539 --> 00:14:26,198

really having a good time with their new

337

00:14:23,948 --> 00:14:27,278

with their new son and it's fun for me

338

00:14:26,198 --> 00:14:29,649

because I've been through it all a

339

00:14:27,278 --> 00:14:31,838

couple of times so I get to you know

340

00:14:29,649 --> 00:14:34,839

watch him go through it and you know

341

00:14:31,839 --> 00:14:37,059

give him some of the benefit of my

342

00:14:34,839 --> 00:14:40,149

experience just giving them a heads up

343
00:14:37,058 --> 00:14:42,039
as to what to expect but it's it's fun

344
00:14:40,149 --> 00:14:43,629
also just watching him sort of discover

345
00:14:42,039 --> 00:14:45,849
all the emotions and everything for

346
00:14:43,629 --> 00:14:47,528
himself you know oh yeah I'm sure I'm

347
00:14:45,850 --> 00:14:49,509
sure it is well then you can sort of

348
00:14:47,528 --> 00:14:51,129
look at it that it's it's the next

349
00:14:49,509 --> 00:14:53,019
generation of the skeptics guide to the

350
00:14:51,129 --> 00:14:57,159
universe podcast is already sort of

351
00:14:53,019 --> 00:14:59,259
there waiting you know then okay the

352
00:14:57,159 --> 00:15:00,938
replacements are on their way in in due

353
00:14:59,259 --> 00:15:03,459
time now Steve you've got a very

354
00:15:00,938 --> 00:15:04,809
interesting thing coming up in april i

355
00:15:03,458 --> 00:15:07,419
believe which is the huge

356
00:15:04,809 --> 00:15:08,829
eating in New York Nexus yeah the

357
00:15:07,419 --> 00:15:10,778
Northeast Conference on science and

358
00:15:08,830 --> 00:15:13,060
skepticism Nexus as we call it april

359
00:15:10,778 --> 00:15:15,429
fifth to seventh we really do have a

360
00:15:13,059 --> 00:15:18,519
great lineup this year Leonard Malone

361
00:15:15,429 --> 00:15:22,539
now is our keynote speaker he wrote the

362
00:15:18,519 --> 00:15:26,370
drunkards walk he wrote a book the the

363
00:15:22,539 --> 00:15:28,539
follow-up book with Stephen Hawking a

364
00:15:26,370 --> 00:15:32,379
brief hit a briefer history a time I

365
00:15:28,539 --> 00:15:35,259
think was called and Jon Ronson Simon

366
00:15:32,379 --> 00:15:38,289
Singh Marietta Christina who's editor of

367
00:15:35,259 --> 00:15:40,028
Scientific American Michael Shermer we

368
00:15:38,289 --> 00:15:41,409
have a great lineup and friday night

369
00:15:40,028 --> 00:15:43,929
were doing something new again we're

370
00:15:41,409 --> 00:15:47,500
experimenting but we're doing a show

371

00:15:43,929 --> 00:15:50,639
called stimulus response it's a

372
00:15:47,500 --> 00:15:53,230
brainchild of brian Wecht and George Rob

373
00:15:50,639 --> 00:15:57,220
so they're going to George and his

374
00:15:53,230 --> 00:15:59,350
cousin are going to create art on stage

375
00:15:57,220 --> 00:16:01,690
in real time you know he'll sort of

376
00:15:59,350 --> 00:16:04,300
watch watch the creative process George

377
00:16:01,690 --> 00:16:05,440
is going to write a song and his cousin

378
00:16:04,299 --> 00:16:08,819
is a painter is going to paint a

379
00:16:05,440 --> 00:16:10,930
painting and 45 minutes on stage and

380
00:16:08,820 --> 00:16:14,530
then we're going to talk about the

381
00:16:10,929 --> 00:16:16,329
neuroscience of creativity and then they

382
00:16:14,529 --> 00:16:18,490
have some comedians lined up who are

383
00:16:16,330 --> 00:16:21,900
going to do some improv and they're

384
00:16:18,490 --> 00:16:25,509
going to incorporate one of the speakers

385
00:16:21,899 --> 00:16:29,319

who last I heard was going to be Jon

386

00:16:25,509 --> 00:16:31,480

Ronson which is should be great as jon

387

00:16:29,320 --> 00:16:33,370

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

388

00:16:31,480 --> 00:16:35,950

game for this kind of thing and I think

389

00:16:33,370 --> 00:16:38,019

the guy's hilarious I love his he has

390

00:16:35,950 --> 00:16:41,320

this dry self-deprecating humor that I

391

00:16:38,019 --> 00:16:43,088

that I think is fantastic what a lineup

392

00:16:41,320 --> 00:16:44,830

and what an interesting session that

393

00:16:43,089 --> 00:16:47,230

sounds like now do you know if the

394

00:16:44,830 --> 00:16:48,400

tickets are still available oh yeah yeah

395

00:16:47,230 --> 00:16:52,180

absolutely tickets are still available

396

00:16:48,399 --> 00:16:54,699

for everything and of course the SU does

397

00:16:52,179 --> 00:16:56,319

a live show on stage where Ashley

398

00:16:54,700 --> 00:17:00,370

speaking podcasts also doing the live

399

00:16:56,320 --> 00:17:04,078

show and we're the we do a private

400
00:17:00,370 --> 00:17:06,549
recording Saturday night there there

401
00:17:04,078 --> 00:17:08,078
we're still working out the details but

402
00:17:06,549 --> 00:17:12,730
a couple of tickets opened up for that

403
00:17:08,078 --> 00:17:15,009
we're figuring out how to how to sell

404
00:17:12,730 --> 00:17:16,990
those off because because so many people

405
00:17:15,009 --> 00:17:18,640
will you know we're requesting tickets

406
00:17:16,990 --> 00:17:22,930
we sold that that sold out almost

407
00:17:18,640 --> 00:17:24,759
immediately and you know the private SG

408
00:17:22,930 --> 00:17:27,578
recording on Saturday night but now we

409
00:17:24,759 --> 00:17:29,980
have a few spaces open up so there'll be

410
00:17:27,578 --> 00:17:33,009
some opportunities maybe 10 to nab one

411
00:17:29,980 --> 00:17:34,660
of those that sounds fantastic how can

412
00:17:33,009 --> 00:17:38,109
people find out more what's the address

413
00:17:34,660 --> 00:17:41,110
they should go so just go to any CSS org

414
00:17:38,109 --> 00:17:44,500
all the information is there now you and

415
00:17:41,109 --> 00:17:46,659
I both Steve we really like the public

416
00:17:44,500 --> 00:17:48,750
events the big events like Tam and so on

417
00:17:46,660 --> 00:17:52,330
and it's a great opportunity to meet

418
00:17:48,750 --> 00:17:54,759
fans of the show you must have over the

419
00:17:52,329 --> 00:17:57,789
years met some great skeptics guide to

420
00:17:54,759 --> 00:17:59,650
the universe fans yeah we really love

421
00:17:57,789 --> 00:18:01,180
going to the live event not only because

422
00:17:59,650 --> 00:18:03,220
we get to see all of our skeptical

423
00:18:01,180 --> 00:18:05,799
friends that otherwise we only get to

424
00:18:03,220 --> 00:18:07,870
you know talk with over Skype or emails

425
00:18:05,799 --> 00:18:09,940
oh it's you know the few opportunities

426
00:18:07,869 --> 00:18:12,399
we have to hang out with with our

427
00:18:09,940 --> 00:18:14,500
colleagues once or twice a year but we

428

00:18:12,400 --> 00:18:17,920
loved meeting with our listeners you

429
00:18:14,500 --> 00:18:19,569
know we always have tables and try to

430
00:18:17,920 --> 00:18:22,350
spend as much time as we can there

431
00:18:19,569 --> 00:18:25,029
although we're busy at events you know

432
00:18:22,349 --> 00:18:27,639
right either running them we run the

433
00:18:25,029 --> 00:18:28,839
events and do recording interviews and

434
00:18:27,640 --> 00:18:31,150
prepping for our shows and everything

435
00:18:28,839 --> 00:18:33,579
but as much time as we can get away just

436
00:18:31,150 --> 00:18:35,830
you sitting behind the table talking

437
00:18:33,579 --> 00:18:37,990
with our listeners we usually hold some

438
00:18:35,829 --> 00:18:39,819
events like dinners or whatever where we

439
00:18:37,990 --> 00:18:41,710
spend a lot of time with people who

440
00:18:39,819 --> 00:18:42,789
listen to the show and that's always

441
00:18:41,710 --> 00:18:44,730
great i mean i'd love to hear their

442
00:18:42,789 --> 00:18:46,839

stories love to get their feedback

443

00:18:44,730 --> 00:18:48,670

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

444

00:18:46,839 --> 00:18:51,099

really recharges our batteries and and

445

00:18:48,670 --> 00:18:52,420

you know makes it be a Briggs at home so

446

00:18:51,099 --> 00:18:54,579

otherwise you know you're sitting in

447

00:18:52,420 --> 00:18:56,170

your in your house producing this

448

00:18:54,579 --> 00:18:58,839

content you send it off into the ether

449

00:18:56,170 --> 00:19:01,360

and it you could still feel pretty

450

00:18:58,839 --> 00:19:03,369

isolated you know the online

451

00:19:01,359 --> 00:19:04,719

interactions great but it's not the same

452

00:19:03,369 --> 00:19:06,069

thing as having somebody come up to you

453

00:19:04,720 --> 00:19:07,210

and say oh I really appreciate all the

454

00:19:06,069 --> 00:19:10,329

work you're doing and the show that you

455

00:19:07,210 --> 00:19:12,700

put on so it really is very nice yeah I

456

00:19:10,329 --> 00:19:16,419

have to agree it's it's very nice and

457
00:19:12,700 --> 00:19:18,850
date and I I guess again we have a very

458
00:19:16,420 --> 00:19:21,130
similar situation we're very very kind

459
00:19:18,849 --> 00:19:22,389
people come up and say how much they

460
00:19:21,130 --> 00:19:24,400
enjoy the show and it's part of their

461
00:19:22,390 --> 00:19:26,050
life you know every week they they'll

462
00:19:24,400 --> 00:19:27,910
download the show and off they'll go to

463
00:19:26,049 --> 00:19:29,919
work and I'll go jogging I mean there

464
00:19:27,910 --> 00:19:31,269
are people listening to us now doing all

465
00:19:29,920 --> 00:19:32,980
sorts of things

466
00:19:31,269 --> 00:19:36,009
as part of their their weekly routine

467
00:19:32,980 --> 00:19:40,210
and that's that's very nice to know yeah

468
00:19:36,009 --> 00:19:43,470
it really is now let me talk with you

469
00:19:40,210 --> 00:19:46,420
just for a short while about a recent

470
00:19:43,470 --> 00:19:48,400
interesting adventure you had well

471
00:19:46,420 --> 00:19:51,519
recent I guess it was a little while ago

472
00:19:48,400 --> 00:19:55,509
were you appeared on the dr. Oz Show now

473
00:19:51,519 --> 00:19:58,450
I must tell you that dr. oz is played

474
00:19:55,509 --> 00:20:00,670
here in Australia five at least five

475
00:19:58,450 --> 00:20:02,410
days a week and it's quite popular now

476
00:20:00,670 --> 00:20:05,080
you you would have appeared here on

477
00:20:02,410 --> 00:20:07,870
Australian TV I'm not exactly sure when

478
00:20:05,079 --> 00:20:09,579
that would have been broadcast but what

479
00:20:07,869 --> 00:20:13,329
can you tell our listeners about your

480
00:20:09,579 --> 00:20:16,449
experience being on the dr. Oz Show yeah

481
00:20:13,329 --> 00:20:20,230
so I was contacted by a producer of the

482
00:20:16,450 --> 00:20:22,870
show and at first I file they do they

483
00:20:20,230 --> 00:20:25,029
know who I am I mean did they are they

484
00:20:22,869 --> 00:20:27,729
sure they were they just fishing for

485

00:20:25,029 --> 00:20:30,220
some random you know neurologist no but

486
00:20:27,730 --> 00:20:32,079
they wanted they had read some of the

487
00:20:30,220 --> 00:20:33,549
articles that we wrote about dr. oz on

488
00:20:32,079 --> 00:20:37,720
my blog it on science-based medicine

489
00:20:33,549 --> 00:20:39,819
where we're pretty critical of him you

490
00:20:37,720 --> 00:20:41,860
know he dispenses a lot of information

491
00:20:39,819 --> 00:20:43,869
and a lot of what he talks about on his

492
00:20:41,859 --> 00:20:48,189
show is fine it's pretty straightforward

493
00:20:43,869 --> 00:20:50,829
medical knowledge but he also will delve

494
00:20:48,190 --> 00:20:52,690
into pseudoscience and I think he's been

495
00:20:50,829 --> 00:20:54,759
doing that increasingly promoting all

496
00:20:52,690 --> 00:20:57,730
kinds of nonsense like homeopathy and

497
00:20:54,759 --> 00:21:00,039
acupuncture and now the latest fad diet

498
00:20:57,730 --> 00:21:03,039
pill it seems the latest supplement or

499
00:21:00,039 --> 00:21:06,700

anything so we've criticized him when he

500

00:21:03,039 --> 00:21:08,889

strays into the pseudoscience but they

501

00:21:06,700 --> 00:21:10,180

wanted to bring me on the show to talk

502

00:21:08,890 --> 00:21:13,090

about it to talk about that our

503

00:21:10,180 --> 00:21:16,710

criticisms of all you know his promotion

504

00:21:13,089 --> 00:21:19,179

of alternative medicine so I actually

505

00:21:16,710 --> 00:21:21,370

emailed my science-based medicine

506

00:21:19,180 --> 00:21:23,140

colleagues you know David Gorski and

507

00:21:21,369 --> 00:21:26,439

kimball and mark and Harry and those

508

00:21:23,140 --> 00:21:28,360

guys and in some way what do you guys

509

00:21:26,440 --> 00:21:30,700

think about this I mean this is it's a

510

00:21:28,359 --> 00:21:33,309

great opportunity but it's also a huge

511

00:21:30,700 --> 00:21:35,080

potential for failure here because he's

512

00:21:33,309 --> 00:21:37,659

going to completely control the content

513

00:21:35,079 --> 00:21:38,889

and you know how much power you have in

514
00:21:37,660 --> 00:21:40,300
the editing room you know you can make

515
00:21:38,890 --> 00:21:43,090
anybody sound like anything you want

516
00:21:40,299 --> 00:21:44,730
sure there's a there's a certain amount

517
00:21:43,089 --> 00:21:46,889
of trust you give

518
00:21:44,730 --> 00:21:49,079
when when you allow yourself to be

519
00:21:46,890 --> 00:21:50,520
interviewed by somebody else and they're

520
00:21:49,079 --> 00:21:53,909
going to completely control the content

521
00:21:50,519 --> 00:21:56,579
and you know we weren't sure that that

522
00:21:53,910 --> 00:21:58,110
we should do that but in the end I

523
00:21:56,579 --> 00:22:01,349
decided that it was too big an

524
00:21:58,109 --> 00:22:04,349
opportunity to pass up and that it was

525
00:22:01,349 --> 00:22:07,199
worth the chance plus I know I've been

526
00:22:04,349 --> 00:22:09,389
in these situations before so I sort of

527
00:22:07,200 --> 00:22:12,870
trusted myself to to handle it you know

528
00:22:09,390 --> 00:22:15,330
to not say something stupid or get you

529
00:22:12,869 --> 00:22:19,319
know lured into lying something that I

530
00:22:15,329 --> 00:22:21,990
shouldn't you have to do you disciplined

531
00:22:19,319 --> 00:22:24,139
enough to speak in sound bites that I'm

532
00:22:21,990 --> 00:22:26,669
happy that they will stand on their own

533
00:22:24,140 --> 00:22:29,910
they can always of course alter the

534
00:22:26,669 --> 00:22:36,450
context of what you're saying but so

535
00:22:29,910 --> 00:22:38,460
anyway so I went on the show dr. oz did

536
00:22:36,450 --> 00:22:41,069
not say two words to me except when I

537
00:22:38,460 --> 00:22:42,630
was on stage with him there was no he

538
00:22:41,069 --> 00:22:44,519
didn't visit me in the greenroom never

539
00:22:42,630 --> 00:22:45,809
said hi to me it was just saw it my

540
00:22:44,519 --> 00:22:48,900
interaction with him was a hundred

541
00:22:45,808 --> 00:22:53,399
percent on stage Oh which was which I

542

00:22:48,900 --> 00:22:55,470
thought was a little cold but the it

543
00:22:53,400 --> 00:22:59,900
actually went fairly well he did give me

544
00:22:55,470 --> 00:23:03,839
an opportunity to say my piece obviously

545
00:22:59,900 --> 00:23:06,480
not as much as i would have liked and I

546
00:23:03,839 --> 00:23:07,949
thought the the audience responded well

547
00:23:06,480 --> 00:23:11,220
to the points that I made you know

548
00:23:07,950 --> 00:23:12,720
obviously I I couldn't be too I couldn't

549
00:23:11,220 --> 00:23:14,460
be int agonistic I had to come off as

550
00:23:12,720 --> 00:23:17,190
the nice guy you know that was I think

551
00:23:14,460 --> 00:23:19,140
the whole point of him my guess is he

552
00:23:17,190 --> 00:23:21,150
wanted somebody on the show so that he

553
00:23:19,140 --> 00:23:23,190
could talk at them to make the points he

554
00:23:21,150 --> 00:23:24,630
wanted to make and if he could get us to

555
00:23:23,190 --> 00:23:27,929
be like sort of the bad guy that would

556
00:23:24,630 --> 00:23:29,760

be a bonus but i think i managed to come

557

00:23:27,929 --> 00:23:32,190

off as a likable person I knew that it's

558

00:23:29,759 --> 00:23:34,890

really my only goal was to just be us

559

00:23:32,190 --> 00:23:39,779

just to be likable and I you know God

560

00:23:34,890 --> 00:23:42,900

got a few points in and but oz reserved

561

00:23:39,779 --> 00:23:45,660

sort of the closing statement for

562

00:23:42,900 --> 00:23:47,700

himself you know made his little brief

563

00:23:45,660 --> 00:23:50,179

rant you know stating his position and

564

00:23:47,700 --> 00:23:53,000

gave me no opportunity to respond and

565

00:23:50,179 --> 00:23:57,269

the one thing he said to me off camera

566

00:23:53,000 --> 00:23:57,759

what was I guess he realized that it's

567

00:23:57,269 --> 00:23:59,170

pretty

568

00:23:57,759 --> 00:24:01,089

rude to you know have a guest on your

569

00:23:59,170 --> 00:24:02,560

show and then to talk at them for a

570

00:24:01,089 --> 00:24:05,049

minute and then cut them off and end the

571
00:24:02,559 --> 00:24:06,309
segment so we did say oh sorry I had to

572
00:24:05,049 --> 00:24:08,230
do that we were running late you know I

573
00:24:06,309 --> 00:24:11,470
sort of this sort of ride lame lame

574
00:24:08,230 --> 00:24:15,519
apology for doing that but other than

575
00:24:11,470 --> 00:24:16,779
that you know it that was that was the

576
00:24:15,519 --> 00:24:18,789
only thing he said to me that wasn't on

577
00:24:16,779 --> 00:24:19,930
camera and then we do we had to wait and

578
00:24:18,789 --> 00:24:21,670
see how they were going to edit it and

579
00:24:19,930 --> 00:24:24,490
the editing actually was not bad you

580
00:24:21,670 --> 00:24:27,940
know it they kept most of the segment

581
00:24:24,490 --> 00:24:29,890
they didn't they didn't chop it up so in

582
00:24:27,940 --> 00:24:32,370
the end I was glad that I went that I

583
00:24:29,890 --> 00:24:34,870
went on the show I think it probably

584
00:24:32,369 --> 00:24:36,909
helped us more than anything else did

585
00:24:34,869 --> 00:24:40,059
you get much feedback of fallout from

586
00:24:36,910 --> 00:24:42,820
that yeah lots of feedback you know um

587
00:24:40,059 --> 00:24:44,919
so a lot of people saw me on the show

588
00:24:42,819 --> 00:24:46,689
even people who are not regular

589
00:24:44,920 --> 00:24:50,710
consumers of science-based medicine or

590
00:24:46,690 --> 00:24:52,630
the SGU so I think it was overall it was

591
00:24:50,710 --> 00:24:54,309
a skeptical win it was it was good for

592
00:24:52,630 --> 00:24:56,830
the science-based medicine brand you

593
00:24:54,309 --> 00:24:58,629
know to get it out there I had a lot of

594
00:24:56,829 --> 00:25:01,480
my own patients said hey I saw you on

595
00:24:58,630 --> 00:25:03,130
the dr. Oz Show and so these are just

596
00:25:01,480 --> 00:25:06,130
regular people they're not skeptics or

597
00:25:03,130 --> 00:25:08,260
in the community and that the the

598
00:25:06,130 --> 00:25:11,110
feedback was mostly that the people

599

00:25:08,259 --> 00:25:16,390
thought that the by appearance was good

600
00:25:11,109 --> 00:25:18,009
and that a lot of people noted that they

601
00:25:16,390 --> 00:25:20,920
thought odds was a little rude to me at

602
00:25:18,009 --> 00:25:22,569
the end which to me means that it

603
00:25:20,920 --> 00:25:24,550
probably backfired on him a little bit

604
00:25:22,569 --> 00:25:26,379
and another thing that was interesting I

605
00:25:24,549 --> 00:25:30,700
a lot of people said to me that they

606
00:25:26,380 --> 00:25:32,920
really liked dr. oz but he does go off

607
00:25:30,700 --> 00:25:34,120
the deep end on the alternative medicine

608
00:25:32,920 --> 00:25:35,380
thing and then they just ignore him when

609
00:25:34,119 --> 00:25:37,179
he starts talking about stuff like that

610
00:25:35,380 --> 00:25:40,060
which I thought was interesting so

611
00:25:37,180 --> 00:25:42,070
people some of his fans will separate

612
00:25:40,059 --> 00:25:43,990
that out like they take the real

613
00:25:42,069 --> 00:25:47,129

information and they just ignore the

614

00:25:43,990 --> 00:25:49,180
nonsense which was heartening to hear

615

00:25:47,130 --> 00:25:51,490
that there that there is still

616

00:25:49,180 --> 00:25:53,350
distinguishing the kind of information

617

00:25:51,490 --> 00:25:55,329
is giving not that he's not doing damage

618

00:25:53,349 --> 00:25:56,529
by promoting nonsense but at least some

619

00:25:55,329 --> 00:25:58,720
people out there can tell the difference

620

00:25:56,529 --> 00:26:02,170
oh well we look forward to the day when

621

00:25:58,720 --> 00:26:03,579
it's the dr steve TV show yeah that

622

00:26:02,170 --> 00:26:05,500
would be nice oh you'll be the first one

623

00:26:03,579 --> 00:26:07,720
in our richard i would appreciate that

624

00:26:05,500 --> 00:26:09,798
then you can have dr. oz on your TV show

625

00:26:07,720 --> 00:26:12,470
and took her here for five minutes

626

00:26:09,798 --> 00:26:14,720
hey I invited him on the st you never

627

00:26:12,470 --> 00:26:16,519
never never got back to me well there

628
00:26:14,720 --> 00:26:19,190
you go I guess he is a very very busy

629
00:26:16,519 --> 00:26:21,378
man indeed I guess so now Steve I think

630
00:26:19,190 --> 00:26:22,940
the next opportunity we will have to see

631
00:26:21,378 --> 00:26:27,678
each other in person and have a drink

632
00:26:22,940 --> 00:26:30,080
will be probably tam 2013 tam in july i

633
00:26:27,679 --> 00:26:31,788
think it is in Las Vegas this year yeah

634
00:26:30,079 --> 00:26:33,678
I looking forward to it yeah I can't

635
00:26:31,788 --> 00:26:35,118
wait to see you again that's always here

636
00:26:33,679 --> 00:26:37,278
again the highlight of these conferences

637
00:26:35,118 --> 00:26:38,480
is getting to see our friends but yeah

638
00:26:37,278 --> 00:26:41,239
we're really looking forward to Tam Tam

639
00:26:38,480 --> 00:26:43,399
is a one of the you know that I think

640
00:26:41,239 --> 00:26:45,798
it's still the biggest annual skeptical

641
00:26:43,398 --> 00:26:47,988
conference that we have by the J ref

642
00:26:45,798 --> 00:26:52,128
James Randi of course is always there

643
00:26:47,989 --> 00:26:54,980
hosting and you know the SGU is always a

644
00:26:52,128 --> 00:26:58,158
big part of it we put on a good to live

645
00:26:54,980 --> 00:27:00,079
shows actually end a dinner and I do a

646
00:26:58,159 --> 00:27:01,639
science-based medicine workshop and a

647
00:27:00,079 --> 00:27:03,980
panel it's always really busy but we

648
00:27:01,638 --> 00:27:06,199
love it it's a full full weekend it

649
00:27:03,980 --> 00:27:08,210
certainly is it's it's a of course on

650
00:27:06,200 --> 00:27:10,759
its a one of the highlights of my my

651
00:27:08,210 --> 00:27:12,798
calendar every years is not only seeing

652
00:27:10,759 --> 00:27:14,058
old friends like my friends at the

653
00:27:12,798 --> 00:27:16,398
skeptics guide to the universe but

654
00:27:14,058 --> 00:27:19,339
meeting so many people and having a chat

655
00:27:16,398 --> 00:27:20,928
to Randy being in las vegas there's

656

00:27:19,339 --> 00:27:25,249
always a lot of fun so i think we can

657
00:27:20,929 --> 00:27:27,019
always always look forward to a tam yeah

658
00:27:25,249 --> 00:27:28,940
it's great networking to me we meet new

659
00:27:27,019 --> 00:27:30,319
people that you know we should know but

660
00:27:28,940 --> 00:27:32,269
we just for whatever reason never came

661
00:27:30,319 --> 00:27:33,769
across them until we run into them at

662
00:27:32,269 --> 00:27:35,778
these conferences and we get great

663
00:27:33,769 --> 00:27:37,940
interviews for the show it's really we

664
00:27:35,778 --> 00:27:41,960
got it so much content it's awesome oh

665
00:27:37,940 --> 00:27:44,239
yeah I hear you me too it's a golden

666
00:27:41,960 --> 00:27:47,058
opportunity for me to to especially with

667
00:27:44,239 --> 00:27:48,829
my people like my reporter may not to

668
00:27:47,058 --> 00:27:52,579
grab lots of interviews which helps me

669
00:27:48,829 --> 00:27:55,519
and helps you produce more your podcasts

670
00:27:52,579 --> 00:27:57,168

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

671

00:27:55,519 --> 00:27:59,118

nice 30-minute interview or something

672

00:27:57,169 --> 00:28:01,159

like that yeah and the live interviews

673

00:27:59,118 --> 00:28:02,599

are just there's a different energy you

674

00:28:01,159 --> 00:28:04,730

know when the persons in the room with

675

00:28:02,599 --> 00:28:07,548

you as opposed to just a voice over the

676

00:28:04,730 --> 00:28:10,099

phone so I enjoy the live interviews a

677

00:28:07,548 --> 00:28:11,868

lot the visual feedback is what's

678

00:28:10,099 --> 00:28:13,849

missing when we're recording over the

679

00:28:11,868 --> 00:28:16,038

internet you know yeah you're i'm

680

00:28:13,849 --> 00:28:17,538

looking at a funny cartoon character of

681

00:28:16,038 --> 00:28:20,089

you right now on my screen but it'll

682

00:28:17,538 --> 00:28:23,420

just have to do a wreck ray my skype

683

00:28:20,089 --> 00:28:27,169

payment here yeah well Steve up

684

00:28:23,420 --> 00:28:28,820

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

685
00:28:27,170 --> 00:28:31,070
stepping achievement and when you say

686
00:28:28,819 --> 00:28:33,529
it's what over eight years it sounds

687
00:28:31,069 --> 00:28:34,730
even more incredible people are growing

688
00:28:33,529 --> 00:28:36,289
up with the skeptics guide to the

689
00:28:34,730 --> 00:28:40,099
universe which is an interesting thought

690
00:28:36,289 --> 00:28:42,259
and all I can say is I hope you keep

691
00:28:40,099 --> 00:28:44,719
doing it for as long as you can possibly

692
00:28:42,259 --> 00:28:47,150
keep doing it and to be together with

693
00:28:44,720 --> 00:28:50,299
the same team and of course we remember

694
00:28:47,150 --> 00:28:52,280
a Perry at this time who sadly is always

695
00:28:50,299 --> 00:28:54,829
always a remember Perry who isn't part

696
00:28:52,279 --> 00:28:56,450
of the team now of course and i'm very

697
00:28:54,829 --> 00:28:58,189
sad i never got the opportunity to meet

698
00:28:56,450 --> 00:28:59,870
him but still with it basically the same

699
00:28:58,190 --> 00:29:02,900
team after all these years it's it's

700
00:28:59,869 --> 00:29:05,539
quite an achievement yeah i have to say

701
00:29:02,900 --> 00:29:06,950
and this is you know not to be sappy or

702
00:29:05,539 --> 00:29:09,409
anything but it really is because of our

703
00:29:06,950 --> 00:29:11,000
listeners i mean early on we had

704
00:29:09,410 --> 00:29:13,850
conversations all the week you know we

705
00:29:11,000 --> 00:29:15,500
increased pretty steadily but you know

706
00:29:13,849 --> 00:29:17,000
we we talked to each other like what are

707
00:29:15,500 --> 00:29:20,450
we going to do how long are we going to

708
00:29:17,000 --> 00:29:22,099
do this if we don't get a reasonable

709
00:29:20,450 --> 00:29:24,110
listener base if it doesn't take off

710
00:29:22,099 --> 00:29:26,109
luckily we never had to face that

711
00:29:24,109 --> 00:29:28,879
question because you know our listeners

712
00:29:26,109 --> 00:29:30,649
increased steadily over the years but

713

00:29:28,880 --> 00:29:32,330
it's our listeners that keep us going

714
00:29:30,650 --> 00:29:34,040
it's it's the feedback that we get the

715
00:29:32,329 --> 00:29:36,769
interaction that we have with them if it

716
00:29:34,039 --> 00:29:38,899
weren't for that you know there's no way

717
00:29:36,769 --> 00:29:41,569
that we would have the energy to keep

718
00:29:38,900 --> 00:29:44,450
doing this week after week Thank You

719
00:29:41,569 --> 00:29:47,089
listeners I you're absolutely right

720
00:29:44,450 --> 00:29:49,009
Steve and I I get the same sort of

721
00:29:47,089 --> 00:29:50,809
feeling when I get very very kind emails

722
00:29:49,009 --> 00:29:53,359
coming back to the skeptics and well

723
00:29:50,809 --> 00:29:55,849
Steve I think I should let you now study

724
00:29:53,359 --> 00:29:57,259
and prep for your next skeptics guide to

725
00:29:55,849 --> 00:29:59,509
the universe your listeners wouldn't

726
00:29:57,259 --> 00:30:01,279
forgive you if the show was late but I'd

727
00:29:59,509 --> 00:30:02,960

like to thank you very much for taking

728

00:30:01,279 --> 00:30:05,359

time out to chat to the listeners of the

729

00:30:02,960 --> 00:30:07,840

skeptic zone it's my pleasure and thank

730

00:30:05,359 --> 00:30:07,839

you Richard

731

00:30:17,480 --> 00:30:23,128

hello simulated human voice here again

732

00:30:20,878 --> 00:30:26,128

during the week I saw the first episode

733

00:30:23,128 --> 00:30:28,740

of a new ABC TV series called the check

734

00:30:26,128 --> 00:30:32,269

out I must say it was very skeptical

735

00:30:28,740 --> 00:30:35,190

indeed and I know Saunders enjoyed it

736

00:30:32,269 --> 00:30:39,990

you can see it for yourself at the ABC

737

00:30:35,190 --> 00:30:42,298

website wevt be CIA you or for those

738

00:30:39,990 --> 00:30:49,378

outside Australia search for it on

739

00:30:42,298 --> 00:30:51,359

YouTube virtual skeptics is a weekly web

740

00:30:49,378 --> 00:30:53,969

show in which we discuss the latest news

741

00:30:51,359 --> 00:30:55,469

in skepticism whether it's a new case of

742
00:30:53,970 --> 00:30:57,659
spontaneous human combustion a

743
00:30:55,470 --> 00:30:59,879
conspiracy theory the latest update on

744
00:30:57,659 --> 00:31:01,559
the upcoming robot apocalypse tech news

745
00:30:59,878 --> 00:31:04,019
for skeptics are the latest wacky

746
00:31:01,558 --> 00:31:06,418
religious claim we cover it all we

747
00:31:04,019 --> 00:31:09,058
record the show live as a Google+ on-air

748
00:31:06,419 --> 00:31:10,889
hang out so join us in our host Brian

749
00:31:09,058 --> 00:31:13,019
Gregory for an hour of mostly

750
00:31:10,888 --> 00:31:15,928
intelligent talk every wednesday at

751
00:31:13,019 --> 00:31:18,929
eight pm eastern US time watch us at

752
00:31:15,929 --> 00:31:21,600
virtual skeptics calm and participate in

753
00:31:18,929 --> 00:31:24,509
the show on our hashtag virtual skeptics

754
00:31:21,599 --> 00:31:28,189
the virtual skeptics it's like meet the

755
00:31:24,509 --> 00:31:28,190
press but with chupacabras

756
00:31:29,179 --> 00:31:34,980
welcome to a week in science from our

757
00:31:32,099 --> 00:31:38,099
iOS this week life at the bottom of the

758
00:31:34,980 --> 00:31:45,419
oceans instant gold and evolution in

759
00:31:38,099 --> 00:31:47,069
action first up the deepest place on the

760
00:31:45,419 --> 00:31:50,580
earth has been found to house an

761
00:31:47,069 --> 00:31:53,519
unexpectedly large population of living

762
00:31:50,579 --> 00:31:56,009
creatures researchers measured oxygen

763
00:31:53,519 --> 00:31:58,769
consumption as an indicator of microbial

764
00:31:56,009 --> 00:32:02,460
life in the Mariana Trench at an

765
00:31:58,769 --> 00:32:04,710
astounding depth of 11,000 meters they

766
00:32:02,460 --> 00:32:06,808
found a surprisingly active community

767
00:32:04,710 --> 00:32:09,000
and suggested that they're fed by

768
00:32:06,808 --> 00:32:12,990
relatively high levels of incoming

769
00:32:09,000 --> 00:32:15,929
sediment in news for modern-day

770

00:32:12,990 --> 00:32:19,109
prospectors earthquakes may be causing

771
00:32:15,929 --> 00:32:21,540
the deposit of gold that's gold I tells

772
00:32:19,109 --> 00:32:23,969
you it's long been thought that gold in

773
00:32:21,539 --> 00:32:26,879
quartz deposits form over long periods

774
00:32:23,970 --> 00:32:29,819
of time as the dissolved gold slowly

775
00:32:26,880 --> 00:32:32,340
solidifies out of mineral rich solutions

776
00:32:29,819 --> 00:32:34,379
but a new theory proposed this week

777
00:32:32,339 --> 00:32:37,289
suggests that earthquakes cracking rocks

778
00:32:34,380 --> 00:32:40,110
deep underground formed spaces of lower

779
00:32:37,289 --> 00:32:42,509
pressure than the surrounding rock this

780
00:32:40,109 --> 00:32:45,298
sudden change in pressure solidifies the

781
00:32:42,509 --> 00:32:47,419
dissolved gold and other minerals out of

782
00:32:45,298 --> 00:32:50,279
the surrounding solution almost

783
00:32:47,419 --> 00:32:53,759
instantaneously and now for size

784
00:32:50,279 --> 00:32:56,220

headlines in 30 seconds giant squid may

785

00:32:53,759 --> 00:32:58,460

in fact all be a single species and not

786

00:32:56,220 --> 00:33:00,960

multiple species as previously thought

787

00:32:58,460 --> 00:33:03,720

roadkill's of cliff swallows may be

788

00:33:00,960 --> 00:33:06,048

forcing evolution with fewer birds being

789

00:33:03,720 --> 00:33:09,120

hit and the birds having shorter wings

790

00:33:06,048 --> 00:33:10,918

further analysis by CERN has confirmed

791

00:33:09,119 --> 00:33:13,649

that the elementary particle discovered

792

00:33:10,919 --> 00:33:16,500

in July last year was indeed a Higgs

793

00:33:13,650 --> 00:33:18,480

boson and Japanese researchers found

794

00:33:16,500 --> 00:33:20,640

that the timing of a roosters crow each

795

00:33:18,480 --> 00:33:23,308

morning depends on their internal

796

00:33:20,640 --> 00:33:26,429

biological clock and not the presence of

797

00:33:23,308 --> 00:33:30,000

the Sun finally this week a new

798

00:33:26,429 --> 00:33:32,130

development in 3d displays this new

799

00:33:30,000 --> 00:33:34,529
approach uses diffractive optics to

800

00:33:32,130 --> 00:33:37,200
produce three-dimensional images which

801

00:33:34,529 --> 00:33:39,720
can be viewed from multiple angles even

802

00:33:37,200 --> 00:33:41,548
when the device is tilted it consists of

803

00:33:39,720 --> 00:33:44,339
a set of LEDs and a

804

00:33:41,548 --> 00:33:47,278
filter that manipulates light to produce

805

00:33:44,339 --> 00:33:50,278
different views and colors this is not

806

00:33:47,278 --> 00:33:52,679
an expensive holographic technique but a

807

00:33:50,278 --> 00:33:55,109
faster and cheaper option this

808

00:33:52,679 --> 00:33:57,899
glasses-free technology could

809

00:33:55,109 --> 00:34:02,368
revolutionize data visualization medical

810

00:33:57,898 --> 00:34:04,798
training and entertainment don't forget

811

00:34:02,368 --> 00:34:08,279
about science behind the headlines drugs

812

00:34:04,798 --> 00:34:10,710
in sport this Tuesday March 26th our

813
00:34:08,280 --> 00:34:12,569
expert panel will be examining this hot

814
00:34:10,710 --> 00:34:14,789
topic and you can be part of the

815
00:34:12,568 --> 00:34:16,949
audience at the sides exchanged or by

816
00:34:14,789 --> 00:34:19,500
following the live stream on our website

817
00:34:16,949 --> 00:34:22,048
the show starts at six-thirty p.m.

818
00:34:19,500 --> 00:34:24,989
central australian time 7 p.m. in the

819
00:34:22,048 --> 00:34:26,759
east and five in the west that's been

820
00:34:24,989 --> 00:34:28,739
the highlights of another big week in

821
00:34:26,760 --> 00:34:31,649
science for more information and other

822
00:34:28,739 --> 00:34:37,078
science news check out the rirs website

823
00:34:31,648 --> 00:34:39,210
RI aus org a you where you can also sign

824
00:34:37,079 --> 00:34:41,639
up for notifications of future episodes

825
00:34:39,210 --> 00:34:44,849
you can follow a week in science on

826
00:34:41,639 --> 00:34:47,280
twitter using the hashtag week in sy I'm

827

00:34:44,849 --> 00:34:50,929
Paul Willis and on behalf of the Arias

828
00:34:47,280 --> 00:34:50,929
team I'll see you next week

829
00:35:00,199 --> 00:35:05,509
I am audit my existing Aviva tips that I

830
00:35:04,070 --> 00:35:07,880
some logic lifted off the skeptic zone

831
00:35:05,510 --> 00:35:10,220
I'm skeptical Marin Nadia the VINs not a

832
00:35:07,880 --> 00:35:11,930
blog gear or petrov a podcast of reading

833
00:35:10,219 --> 00:35:14,358
escape system is leaked on this door

834
00:35:11,929 --> 00:35:15,710
panel central i'll skip crystal demo or

835
00:35:14,358 --> 00:35:18,019
higher publicize the dips corner

836
00:35:15,710 --> 00:35:19,490
Chiclets and calendar / activity or link

837
00:35:18,019 --> 00:35:20,750
it in the state association escapes this

838
00:35:19,489 --> 00:35:22,338
blog in ops at iridium layer or the

839
00:35:20,750 --> 00:35:24,409
discrete areas hefty performance so

840
00:35:22,338 --> 00:35:32,838
stick in them Oh Delta do Lhasa skips is

841
00:35:24,409 --> 00:35:35,088

totes hello why the big fuss about GMO

842

00:35:32,838 --> 00:35:37,639

crops are they indeed as terrible as

843

00:35:35,088 --> 00:35:44,029

some people say I'm Brian Dunning and

844

00:35:37,639 --> 00:35:45,409

you're watching in fact welcome to the

845

00:35:44,030 --> 00:35:48,890

show that gives you the real facts

846

00:35:45,409 --> 00:35:51,049

behind popular myths our GMO crops good

847

00:35:48,889 --> 00:35:53,328

or bad well the question actually

848

00:35:51,050 --> 00:35:56,359

doesn't make sense because direct

849

00:35:53,329 --> 00:35:59,420

genetic modification is a technology not

850

00:35:56,358 --> 00:36:02,088

a product it's one basic technology for

851

00:35:59,420 --> 00:36:04,608

creating new plant varieties another

852

00:36:02,088 --> 00:36:07,250

basic technology is hybridization or

853

00:36:04,608 --> 00:36:09,170

crossbreeding think of the difference

854

00:36:07,250 --> 00:36:11,358

between a typewriter and a computer

855

00:36:09,170 --> 00:36:13,579

there are two different technologies

856
00:36:11,358 --> 00:36:16,039
that can be used to write a book but it

857
00:36:13,579 --> 00:36:19,099
makes no sense to ask our books written

858
00:36:16,039 --> 00:36:20,690
on computers good or bad we all

859
00:36:19,099 --> 00:36:22,730
understand that it's the end product

860
00:36:20,690 --> 00:36:24,440
itself that's important not the

861
00:36:22,730 --> 00:36:27,380
technology with which it was created

862
00:36:24,440 --> 00:36:29,838
using a computer instead of a typewriter

863
00:36:27,380 --> 00:36:32,088
may make the work easier but it does not

864
00:36:29,838 --> 00:36:35,000
inherently result in a book that's

865
00:36:32,088 --> 00:36:38,179
either better or worse by the same token

866
00:36:35,000 --> 00:36:40,730
it makes no sense to ask if GMO crops

867
00:36:38,179 --> 00:36:43,338
are good or bad we have to look instead

868
00:36:40,730 --> 00:36:46,338
at the end product using genetic

869
00:36:43,338 --> 00:36:49,068
modification lets us for example copy

870
00:36:46,338 --> 00:36:50,690
and paste specific genes just as a

871
00:36:49,068 --> 00:36:52,519
computer lets you copy and paste

872
00:36:50,690 --> 00:36:54,980
paragraphs from one document to the

873
00:36:52,519 --> 00:36:57,349
other you can copy and paste a gene that

874
00:36:54,980 --> 00:36:59,750
makes the plant better or a gene that

875
00:36:57,349 --> 00:37:02,269
makes it worse you can copy and paste

876
00:36:59,750 --> 00:37:03,739
text to make an exciting book or a

877
00:37:02,269 --> 00:37:06,559
boring book

878
00:37:03,739 --> 00:37:08,599
one of the most common GMO crops is BT

879
00:37:06,559 --> 00:37:11,119
corn which stands for back sillas

880
00:37:08,599 --> 00:37:13,279
thuringiensis its purpose is to make the

881
00:37:11,119 --> 00:37:16,100
core naturally resistant to caterpillars

882
00:37:13,280 --> 00:37:18,710
without requiring a pesticide and to

883
00:37:16,099 --> 00:37:20,839
make BT corn we clipped one gene from a

884

00:37:18,710 --> 00:37:23,929
naturally occurring soil bacterium and

885
00:37:20,840 --> 00:37:25,700
pasted it into traditional chord that

886
00:37:23,929 --> 00:37:28,429
gene makes the corn produce a protein

887
00:37:25,699 --> 00:37:30,529
that causes caterpillars to stop eating

888
00:37:28,429 --> 00:37:33,319
simple we get a cord that's

889
00:37:30,530 --> 00:37:35,210
nutritionally unchanged and no pesticide

890
00:37:33,320 --> 00:37:38,090
has to be sprayed so the corns cleaner

891
00:37:35,210 --> 00:37:40,730
too so the next time someone tells you

892
00:37:38,090 --> 00:37:43,309
that GMO crops are either good or bad

893
00:37:40,730 --> 00:37:45,500
ask them which variety they're talking

894
00:37:43,309 --> 00:37:47,989
about just as you'd ask what book they

895
00:37:45,500 --> 00:37:50,090
liked ask them which gene conferred the

896
00:37:47,989 --> 00:37:51,559
trait they're concerned about just as

897
00:37:50,090 --> 00:37:54,079
you might ask about a character in the

898
00:37:51,559 --> 00:37:55,869

book chances are you'll reveal that they

899

00:37:54,079 --> 00:37:58,429

have no idea what they're talking about

900

00:37:55,869 --> 00:38:00,800

being written on a computer doesn't make

901

00:37:58,429 --> 00:38:03,589

a book good or bad and being developed

902

00:38:00,800 --> 00:38:07,070

with direct genetic manipulation doesn't

903

00:38:03,590 --> 00:38:09,220

make a plant good or bad before you jump

904

00:38:07,070 --> 00:38:11,809

onto any pop culture bandwagon

905

00:38:09,219 --> 00:38:15,139

understand the basic science and then

906

00:38:11,809 --> 00:38:19,130

make an informed jump I'm Brian Dunning

907

00:38:15,139 --> 00:38:21,170

and this has been in fact in fact is

908

00:38:19,130 --> 00:38:23,720

made possible by financial support from

909

00:38:21,170 --> 00:38:27,159

viewers like you please visit in fact

910

00:38:23,719 --> 00:38:27,159

video com

911

00:38:33,498 --> 00:38:40,558

ning xia shot induction skeptic zone

912

00:38:36,478 --> 00:38:45,478

basically su amiga one's escaped I talk

913
00:38:40,559 --> 00:38:48,028
on da CA n sceptile psychically podcast

914
00:38:45,478 --> 00:38:51,118
GMO a momentito with hardened sinner

915
00:38:48,028 --> 00:38:54,088
hearty pocket and Helios in the atlantic

916
00:38:51,119 --> 00:38:57,869
ocean in Mahwah New Jersey shenzhen

917
00:38:54,088 --> 00:39:02,068
chatty Lana cncl include ow itunes the

918
00:38:57,869 --> 00:39:07,068
Chihuahua Jan SATA sceptile fujisawa one

919
00:39:02,068 --> 00:39:07,068
of the ones skeptical because en

920
00:39:07,130 --> 00:39:12,800
thus kept I'd science podcast by brian

921
00:39:10,429 --> 00:39:15,289
dunning is now available for Chinese

922
00:39:12,800 --> 00:39:18,260
audience please tell your Chinese

923
00:39:15,289 --> 00:39:21,199
friends to visit skip toy duck hunters

924
00:39:18,260 --> 00:39:25,280
en a fine skipped hoid on the Chinese

925
00:39:21,199 --> 00:39:27,969
itunes door i'm lisa from sceptile calm

926
00:39:25,280 --> 00:39:27,970
the CN

927
00:39:39,099 --> 00:39:43,639
this is Ben Radford I'm deputy editor of

928
00:39:42,079 --> 00:39:45,710
skeptical inquirer science magazine

929
00:39:43,639 --> 00:39:47,719
author of six books including tracking

930
00:39:45,710 --> 00:39:59,960
chupacabras and you can find out more

931
00:39:47,719 --> 00:40:02,629
about me at Benjamin Radford calm astral

932
00:39:59,960 --> 00:40:04,220
projection the idea that humans can

933
00:40:02,630 --> 00:40:06,470
leave their bodies during dream states

934
00:40:04,219 --> 00:40:09,019
is an ancient one countless people from

935
00:40:06,469 --> 00:40:10,579
New Agers to shaman to to the

936
00:40:09,019 --> 00:40:12,440
nineteenth-century occult philosopher

937
00:40:10,579 --> 00:40:14,449
Madame Blavatsky believe that it's

938
00:40:12,440 --> 00:40:16,519
possible to commune with cosmic

939
00:40:14,449 --> 00:40:18,289
intelligences through visions and vivid

940
00:40:16,519 --> 00:40:20,090
dreams experience during astral

941

00:40:18,289 --> 00:40:23,179
projection also known as out-of-body

942
00:40:20,090 --> 00:40:25,130
experiences study suggests that between

943
00:40:23,179 --> 00:40:26,569
eight and twenty percent of people claim

944
00:40:25,130 --> 00:40:28,130
to have had something like an

945
00:40:26,570 --> 00:40:29,690
out-of-body experience at some point in

946
00:40:28,130 --> 00:40:31,970
their lives a sensation of the

947
00:40:29,690 --> 00:40:34,460
consciousness spirit or astral body

948
00:40:31,969 --> 00:40:36,319
leaving the physical body while most

949
00:40:34,460 --> 00:40:38,630
experiences occur during sleep paralysis

950
00:40:36,320 --> 00:40:39,980
or under hypnosis some people claim to

951
00:40:38,630 --> 00:40:42,530
do it while they're merely relaxing

952
00:40:39,980 --> 00:40:44,329
according to one popular theory the

953
00:40:42,530 --> 00:40:46,700
astral body remains connected through a

954
00:40:44,329 --> 00:40:49,460
metaphorical silver cord which is sort

955
00:40:46,699 --> 00:40:50,719

of like an umbilical cord the tether is

956

00:40:49,460 --> 00:40:53,030

the roaming consciousness to the

957

00:40:50,719 --> 00:40:55,730

physical body though practiced for

958

00:40:53,030 --> 00:40:57,320

millennia these days astral travel can

959

00:40:55,730 --> 00:40:59,090

be big business a man named mark

960

00:40:57,320 --> 00:41:03,080

pritchard who goes by the more evocative

961

00:40:59,090 --> 00:41:05,750

moniker vm bill Zebub offers an online

962

00:41:03,079 --> 00:41:08,150

course and an end book on how to astral

963

00:41:05,750 --> 00:41:10,849

travel in eight weeks as he explains

964

00:41:08,150 --> 00:41:12,619

quote the astral is one of two planes in

965

00:41:10,849 --> 00:41:14,599

the fifth dimension it is where dreams

966

00:41:12,619 --> 00:41:16,940

occur where mystical teachings are given

967

00:41:14,599 --> 00:41:19,130

in where the deceased go you can meet

968

00:41:16,940 --> 00:41:20,750

spiritual beings in the astral discover

969

00:41:19,130 --> 00:41:23,180

a secret knowledge learn about yourself

970
00:41:20,750 --> 00:41:25,460
see where your spiritual obstacles and

971
00:41:23,179 --> 00:41:28,219
energy defects are learn hidden wisdoms

972
00:41:25,460 --> 00:41:30,050
about death the process of awakening get

973
00:41:28,219 --> 00:41:32,000
premonitions from the future receive

974
00:41:30,050 --> 00:41:33,950
guidance discover your purpose in life

975
00:41:32,000 --> 00:41:36,559
discover what really happens after death

976
00:41:33,949 --> 00:41:38,779
and much more it is something that

977
00:41:36,559 --> 00:41:40,730
really happens to you you actually find

978
00:41:38,780 --> 00:41:42,890
yourself in another dimension existing

979
00:41:40,730 --> 00:41:44,480
outside the physical world you'll be

980
00:41:42,889 --> 00:41:46,400
able to fly go through

981
00:41:44,480 --> 00:41:48,170
Austin objects meet people and travel to

982
00:41:46,400 --> 00:41:51,170
distant places it is a profound

983
00:41:48,170 --> 00:41:54,230
experience end quote sounds pretty

984
00:41:51,170 --> 00:41:55,490
exciting it's that really covers covers

985
00:41:54,230 --> 00:41:58,070
just about everything you might want to

986
00:41:55,489 --> 00:42:00,769
learn how would think about yourself and

987
00:41:58,070 --> 00:42:02,300
the world around you so you know it may

988
00:42:00,769 --> 00:42:04,039
be a profound experience but the

989
00:42:02,300 --> 00:42:06,109
fundamental problem is there's really no

990
00:42:04,039 --> 00:42:08,090
way to scientifically measure whether or

991
00:42:06,108 --> 00:42:11,090
not a person's spirit whatever that is

992
00:42:08,090 --> 00:42:12,890
leaves or enters the body the simplest

993
00:42:11,090 --> 00:42:14,990
and best explanation for out-of-body

994
00:42:12,889 --> 00:42:17,480
experiences is that the person is merely

995
00:42:14,989 --> 00:42:19,039
fantasizing and dreaming because there's

996
00:42:17,480 --> 00:42:20,960
no scientific evidence that the soul

997
00:42:19,039 --> 00:42:22,519
exists or for that matter that

998

00:42:20,960 --> 00:42:24,858
consciousness can exist inside of the

999
00:42:22,519 --> 00:42:26,960
brain the premise behind astral travel

1000
00:42:24,858 --> 00:42:28,489
is rejected by scientists one of the

1001
00:42:26,960 --> 00:42:30,440
most important scientific principles

1002
00:42:28,489 --> 00:42:32,239
Occam's razor is that if you have a

1003
00:42:30,440 --> 00:42:34,039
phenomena to be explained in several

1004
00:42:32,239 --> 00:42:36,108
different theories that are proposed as

1005
00:42:34,039 --> 00:42:37,969
solutions the simplest one or the one

1006
00:42:36,108 --> 00:42:40,219
with the fewest assumptions is likely to

1007
00:42:37,969 --> 00:42:41,899
be the correct answer one common

1008
00:42:40,219 --> 00:42:43,579
illustration of this is a statement when

1009
00:42:41,900 --> 00:42:46,190
someone says when you hear hoofbeats

1010
00:42:43,579 --> 00:42:47,659
think horses not unicorns or in this

1011
00:42:46,190 --> 00:42:49,250
case when you have a dream like

1012
00:42:47,659 --> 00:42:51,819

experience while sleeping and resting

1013

00:42:49,250 --> 00:42:54,170

think dreaming not astral projection

1014

00:42:51,820 --> 00:42:55,880

practitioners of astral travel insist

1015

00:42:54,170 --> 00:42:57,500

that it must be real because it seems so

1016

00:42:55,880 --> 00:42:59,300

vivid and because some of the

1017

00:42:57,500 --> 00:43:01,460

experiences are similar even for people

1018

00:42:59,300 --> 00:43:03,410

from different cultures but it's not

1019

00:43:01,460 --> 00:43:04,820

surprising that many people who try a so

1020

00:43:03,409 --> 00:43:07,460

travel may have similar experiences

1021

00:43:04,820 --> 00:43:09,769

after all that's what the term guided

1022

00:43:07,460 --> 00:43:11,780

imagery is it's when an authority such

1023

00:43:09,769 --> 00:43:13,730

as a psychologist or astral travel

1024

00:43:11,780 --> 00:43:14,630

teacher for example tells me what they

1025

00:43:13,730 --> 00:43:17,030

should experience when they're having

1026

00:43:14,630 --> 00:43:20,000

astral travel the power of suggestion

1027
00:43:17,030 --> 00:43:21,859
can be very powerful and in a person who

1028
00:43:20,000 --> 00:43:23,809
is told that they will encounter an

1029
00:43:21,858 --> 00:43:26,358
alien or godlike entity who imparts

1030
00:43:23,809 --> 00:43:28,909
cosmic wisdom is likely to imagine

1031
00:43:26,358 --> 00:43:30,799
exactly that the problem is there's no

1032
00:43:28,909 --> 00:43:32,329
evidence that those people who leave

1033
00:43:30,800 --> 00:43:34,820
their bodies are actually going anywhere

1034
00:43:32,329 --> 00:43:36,799
and certainly not anywhere on earth one

1035
00:43:34,820 --> 00:43:38,869
strong piece of evidence that the the

1036
00:43:36,800 --> 00:43:40,609
travel takes place inside the mind is

1037
00:43:38,869 --> 00:43:42,500
that those who returned from out of body

1038
00:43:40,608 --> 00:43:45,199
experiences can't give verifiable

1039
00:43:42,500 --> 00:43:46,880
details or information about the places

1040
00:43:45,199 --> 00:43:49,879
they've been or what they've seen if

1041
00:43:46,880 --> 00:43:52,039
real astral travel would be incredibly

1042
00:43:49,880 --> 00:43:53,930
useful there would be no need to send

1043
00:43:52,039 --> 00:43:57,199
humans into dangerous situations such as

1044
00:43:53,929 --> 00:43:58,940
the 2011 Fukushima Daiichi nuclear

1045
00:43:57,199 --> 00:44:00,889
disaster in Japan to find out what the

1046
00:43:58,940 --> 00:44:03,409
situation is or if for example a

1047
00:44:00,889 --> 00:44:05,569
meltdown is imminent instead engineers

1048
00:44:03,409 --> 00:44:07,699
should be able to simply visit the site

1049
00:44:05,570 --> 00:44:09,440
astrally to survey the damage and report

1050
00:44:07,699 --> 00:44:11,929
back without the dangers of radiation

1051
00:44:09,440 --> 00:44:13,970
contamination for that matter if

1052
00:44:11,929 --> 00:44:15,710
consciousnesses can fly go through walls

1053
00:44:13,969 --> 00:44:17,539
and circle the globe it should have been

1054
00:44:15,710 --> 00:44:19,519
a simple matter for astral projection

1055

00:44:17,539 --> 00:44:21,409
teams to locate Osama bin Laden during

1056
00:44:19,519 --> 00:44:23,239
his decade of hiding out in Pakistan and

1057
00:44:21,409 --> 00:44:25,149
save innocent lives not to mention

1058
00:44:23,239 --> 00:44:27,618
collecting in 25 million dollar award

1059
00:44:25,150 --> 00:44:29,930
the distant Carnac consciousnesses a

1060
00:44:27,619 --> 00:44:31,789
bilingual astral projecting spies could

1061
00:44:29,929 --> 00:44:33,230
easily visit top secret facilities

1062
00:44:31,789 --> 00:44:34,969
around the world and return with

1063
00:44:33,230 --> 00:44:36,949
important information about everything

1064
00:44:34,969 --> 00:44:40,069
from corporate trade secrets to military

1065
00:44:36,949 --> 00:44:41,809
nuclear codes if astral bodies truly can

1066
00:44:40,070 --> 00:44:44,088
visit other planets there seems to be

1067
00:44:41,809 --> 00:44:46,070
little need for the 2.5 billion dollars

1068
00:44:44,088 --> 00:44:47,869
spent on the Mars rovers since

1069
00:44:46,070 --> 00:44:50,269

scientists could simply travel there

1070

00:44:47,869 --> 00:44:51,858

astrally drink dreams and provide

1071

00:44:50,269 --> 00:44:54,789

detailed information about the geography

1072

00:44:51,858 --> 00:44:56,630

soil composition and ecology of Mars

1073

00:44:54,789 --> 00:44:58,550

according to researcher sue Blackmore

1074

00:44:56,630 --> 00:45:00,349

author of beyond the body an

1075

00:44:58,550 --> 00:45:02,930

investigation into out-of-body

1076

00:45:00,349 --> 00:45:04,910

experiences people who experience astral

1077

00:45:02,929 --> 00:45:06,710

travel quote have been found to score

1078

00:45:04,909 --> 00:45:09,108

higher on measures of hypnotizability

1079

00:45:06,710 --> 00:45:11,179

and in several surveys on measures of

1080

00:45:09,108 --> 00:45:12,619

absorption which is a measure of a

1081

00:45:11,179 --> 00:45:14,358

person's ability to pay complete

1082

00:45:12,619 --> 00:45:15,980

attention to something and become

1083

00:45:14,358 --> 00:45:18,318

immersed in it even if it's not real

1084
00:45:15,980 --> 00:45:21,050
like a play film or imagined event in

1085
00:45:18,318 --> 00:45:23,239
quote out-of-body experiences are a more

1086
00:45:21,050 --> 00:45:25,519
imaginative suggestible and fantasy

1087
00:45:23,239 --> 00:45:27,529
prone than average though they have low

1088
00:45:25,519 --> 00:45:29,420
levels of drug alcohol use and no

1089
00:45:27,530 --> 00:45:32,060
obvious signs of psychopathology or

1090
00:45:29,420 --> 00:45:33,800
mental illness it's also possible that

1091
00:45:32,059 --> 00:45:35,750
some of the out-of-body experiences of a

1092
00:45:33,800 --> 00:45:38,359
result of dreaming during what's called

1093
00:45:35,750 --> 00:45:40,909
micro sleep falling asleep for anywhere

1094
00:45:38,358 --> 00:45:43,130
from a fraction of a second to maybe half

1095
00:45:40,909 --> 00:45:45,259
a minute and not realizing it this is

1096
00:45:43,130 --> 00:45:46,490
common when people are tired relaxing or

1097
00:45:45,260 --> 00:45:49,220
doing tedious activities such as

1098
00:45:46,489 --> 00:45:50,868
long-haul trucking in some cases the

1099
00:45:49,219 --> 00:45:52,549
person may believe they've been out of

1100
00:45:50,869 --> 00:45:54,410
their bodies for minutes or even hours

1101
00:45:52,550 --> 00:45:57,019
when in fact they simply experienced

1102
00:45:54,409 --> 00:45:58,639
micro sleeps if a believer in astral

1103
00:45:57,019 --> 00:46:00,530
projection has a sudden unexplainable

1104
00:45:58,639 --> 00:46:02,000
and vivid dream and doesn't know they

1105
00:46:00,530 --> 00:46:05,440
were asleep this could easily be

1106
00:46:02,000 --> 00:46:08,030
interpreted as an out-of-body experience

1107
00:46:05,440 --> 00:46:09,530
though astral projection practitioners

1108
00:46:08,030 --> 00:46:11,060
are convinced their experiences are real

1109
00:46:09,530 --> 00:46:12,680
and not merely dreams or fan

1110
00:46:11,059 --> 00:46:15,529
cease their evidence is all anecdotal

1111
00:46:12,679 --> 00:46:17,210
just as a person takes peyote or LSD may

1112

00:46:15,530 --> 00:46:19,280
be truly convinced that they interacted

1113
00:46:17,210 --> 00:46:21,199
with God dead people or angels while in

1114
00:46:19,280 --> 00:46:23,210
an altered state it's not a coincidence

1115
00:46:21,199 --> 00:46:27,169
that drug users refer to a psychedelic

1116
00:46:23,210 --> 00:46:28,970
experience as a trip astral projection

1117
00:46:27,170 --> 00:46:30,860
is an entertaining and harmless pastime

1118
00:46:28,969 --> 00:46:33,379
that can seem profound and in some cases

1119
00:46:30,860 --> 00:46:34,880
even life-changing but there's no

1120
00:46:33,380 --> 00:46:36,440
evidence that out-of-body experiences

1121
00:46:34,880 --> 00:46:40,539
happen outside the body instead of

1122
00:46:36,440 --> 00:46:40,539
inside the brain this has been radford

1123
00:46:50,019 --> 00:46:54,440
the hand side is a podcast of the

1124
00:46:52,849 --> 00:46:57,589
monthly lectures run back camera

1125
00:46:54,440 --> 00:46:59,450
skeptics incorporating each month camera

1126
00:46:57,590 --> 00:47:01,250

skeptics provides experts in their field

1127

00:46:59,449 --> 00:47:04,609

ruined you from science and philosophy

1128

00:47:01,250 --> 00:47:06,190

to politics and national security with

1129

00:47:04,610 --> 00:47:10,640

an opportunity to present their views

1130

00:47:06,190 --> 00:47:14,630

you can find us at WWE embryo skeptics

1131

00:47:10,639 --> 00:47:17,710

org dot a you the hand surg cameras kept

1132

00:47:14,630 --> 00:47:17,710

its record of reason

1133

00:47:32,239 --> 00:47:37,979

thank you for listening to the skeptic

1134

00:47:34,739 --> 00:47:40,019

zone I'm feeling much better hopefully I

1135

00:47:37,980 --> 00:47:45,000

won't need the services of simulated

1136

00:47:40,019 --> 00:47:48,568

human voice again hopefully actually

1137

00:47:45,000 --> 00:47:51,239

she's not that bad Cesar she follows

1138

00:47:48,568 --> 00:47:55,460

instructions I'll give her that coming

1139

00:47:51,239 --> 00:48:00,328

up on next week's show I don't know hmm

1140

00:47:55,460 --> 00:48:03,179

maybe solar flare we can only hope soon

1141
00:48:00,329 --> 00:48:05,430
anyway I promise soon but I can tell you

1142
00:48:03,179 --> 00:48:06,828
one thing over the next few months

1143
00:48:05,429 --> 00:48:08,879
you're going to be hearing many

1144
00:48:06,829 --> 00:48:11,548
interesting interviews from my trips

1145
00:48:08,880 --> 00:48:15,390
around Europe let's see Germany Norway

1146
00:48:11,548 --> 00:48:18,030
Ireland the UK and Czech Republic i

1147
00:48:15,389 --> 00:48:19,769
think i think i can get some very

1148
00:48:18,030 --> 00:48:22,500
interesting interviews and insights for

1149
00:48:19,769 --> 00:48:25,019
you over the next few weeks which we can

1150
00:48:22,500 --> 00:48:27,389
all enjoy over the next few months if my

1151
00:48:25,019 --> 00:48:29,960
voice lasts that long if it doesn't well

1152
00:48:27,389 --> 00:48:33,420
then i might just get simulated human

1153
00:48:29,960 --> 00:48:35,068
for all right folks thanks for listening

1154
00:48:33,420 --> 00:48:36,778
to the skeptic zone once again and a big

1155
00:48:35,068 --> 00:48:39,599
THANK YOU a very big thank you to those

1156
00:48:36,778 --> 00:48:42,900
people who chip in only a dollar a week

1157
00:48:39,599 --> 00:48:44,400
to help put the show out to help buy any

1158
00:48:42,900 --> 00:48:47,400
equipment like the microphone I'm using

1159
00:48:44,400 --> 00:48:50,818
at the moment it really does make a big

1160
00:48:47,400 --> 00:48:55,619
difference so until next week this is

1161
00:48:50,818 --> 00:49:01,769
Richard Saunders woof signing off from

1162
00:48:55,619 --> 00:49:03,990
Sydney Australia you've been listening

1163
00:49:01,769 --> 00:49:08,820
to the skeptic zone

1164
00:49:03,989 --> 00:49:11,849
visit our website at www.skeptics.org on TV

1165
00:49:08,820 --> 00:49:14,510
for comments contacts and extra video

1166
00:49:11,849 --> 00:49:14,509
reports

1167
00:49:17,608 --> 00:49:19,670
you