

1
00:00:00,000 --> 00:00:05,339
can you say my name is Eric Saunders I

2
00:00:02,339 --> 00:00:18,719
name is Eric sordid and you're listening

3
00:00:05,339 --> 00:00:21,000
to and Corey chief very good welcome to

4
00:00:18,719 --> 00:00:24,399
the skeptic zone the podcast from

5
00:00:21,000 --> 00:00:28,059
Australia for science and reason

6
00:00:24,399 --> 00:00:30,538
urea hosts Richard Saunders and Stefan

7
00:00:28,059 --> 00:00:30,538
Soyka

8
00:00:32,759 --> 00:00:38,170
hello Richard is def hi Stefan I can't

9
00:00:36,100 --> 00:00:42,039
believe I'm actually here I'm in the

10
00:00:38,170 --> 00:00:44,260
free think tank holding doc you are you

11
00:00:42,039 --> 00:00:45,250
are not come along for the think tank

12
00:00:44,259 --> 00:00:47,920
but we thought we'd do a quick

13
00:00:45,250 --> 00:00:50,018
introduction to the show before yes we

14
00:00:47,920 --> 00:00:52,480
start fantastic to me i'm actually in

15
00:00:50,018 --> 00:00:54,159
walking among skeptics at the moment as

16
00:00:52,479 --> 00:00:56,109
you are phenomenally we've got more

17
00:00:54,159 --> 00:00:58,569
skeptics coming in as your speakers it

18
00:00:56,109 --> 00:01:02,679
is good they're all gay and teaming into

19
00:00:58,570 --> 00:01:04,780
the flight aiming into it all fire

20
00:01:02,679 --> 00:01:07,180
rocket is how folks you're in for a big

21
00:01:04,780 --> 00:01:08,950
thing a big thing taking a bit later on

22
00:01:07,180 --> 00:01:11,380
a bit later that's a play right now it's

23
00:01:08,950 --> 00:01:14,680
the intro so we will go to the skeptics

24
00:01:11,379 --> 00:01:17,289
are this is shown number 67 40 29th of

25
00:01:14,680 --> 00:01:18,940
genuine yuri yes indeed january is

26
00:01:17,289 --> 00:01:21,070
nearly gone ah it's been a big week too

27
00:01:18,939 --> 00:01:22,810
because we had australia day we did that

28
00:01:21,069 --> 00:01:24,689
was really really Ozzy were you in

29

00:01:22,810 --> 00:01:29,530
particularly Australian on Australia Day

30
00:01:24,689 --> 00:01:32,890
well I stayed in the country you didn't

31
00:01:29,530 --> 00:01:34,840
that's enough yes very good well that's

32
00:01:32,890 --> 00:01:36,780
true yeah no I didn't even get drunk or

33
00:01:34,840 --> 00:01:40,030
anything so i'm actually on a new a new

34
00:01:36,780 --> 00:01:42,430
detox program called stop drinking are

35
00:01:40,030 --> 00:01:45,460
you yeah it's phenomenal it's a miracle

36
00:01:42,430 --> 00:01:46,930
in fact dr. stefan oh yeah we're gonna

37
00:01:45,459 --> 00:01:48,849
be hearing more about that from you

38
00:01:46,930 --> 00:01:50,680
later in the show I'm we may live in

39
00:01:48,849 --> 00:01:53,319
money will so what's happening what's

40
00:01:50,680 --> 00:01:54,670
happening this wonderful 67 shark we've

41
00:01:53,319 --> 00:01:56,769
got we're gonna kick off with an

42
00:01:54,670 --> 00:01:59,170
interview I could get in California with

43
00:01:56,769 --> 00:02:02,289

Eugenie Scott ah she's a bit of a

44

00:01:59,170 --> 00:02:04,149
popular Ii absolutely Jimmy's got very

45

00:02:02,290 --> 00:02:06,490
popular lady course at the National

46

00:02:04,149 --> 00:02:08,949
Center for Science Education doing her

47

00:02:06,489 --> 00:02:10,899
best to fight the creationists oh oh

48

00:02:08,949 --> 00:02:12,729
yeah that's a tough fight that's a very

49

00:02:10,899 --> 00:02:17,189
tough I because we are actually living

50

00:02:12,729 --> 00:02:19,419
in creation we are inverted commas

51

00:02:17,189 --> 00:02:20,739
creation is all around it's all around

52

00:02:19,419 --> 00:02:22,089
us here can't wait for that Eugenie

53

00:02:20,739 --> 00:02:24,939
Scott always something good to say

54

00:02:22,090 --> 00:02:28,900
that's followed by of course dr. Richie

55

00:02:24,939 --> 00:02:30,789
reports Oh dr. a chi o tea and she's a

56

00:02:28,900 --> 00:02:32,530
popular she's a fun exciting popular

57

00:02:30,789 --> 00:02:33,759
girl at the moment lots of news floating

58
00:02:32,530 --> 00:02:35,219
around dr. H get them i'll get to that

59
00:02:33,759 --> 00:02:38,069
in the think tank are you

60
00:02:35,219 --> 00:02:40,439
and and that's followed by of course

61
00:02:38,069 --> 00:02:42,810
which and you're here for the meeting

62
00:02:40,439 --> 00:02:45,780
hey Jake I'm actually he yes finally

63
00:02:42,810 --> 00:02:47,580
people gathering honor the tensions

64
00:02:45,780 --> 00:02:49,020
mounting it's all here but we should

65
00:02:47,580 --> 00:02:50,550
actually get a bit of a show underway

66
00:02:49,020 --> 00:02:52,110
first and then we'll come back for it

67
00:02:50,550 --> 00:02:57,800
we'll do it we'll do it happen waiter

68
00:02:52,110 --> 00:02:57,800
waiter waiter menu please thank you

69
00:03:11,360 --> 00:03:17,340
eugenie see Scott is an american

70
00:03:14,310 --> 00:03:19,469
physical anthropologist who has been the

71
00:03:17,340 --> 00:03:22,979
executive director of the National

72
00:03:19,469 --> 00:03:27,180
Center for Science Education the NCSE

73
00:03:22,979 --> 00:03:29,729
since 1987 she is a leading critic of

74
00:03:27,180 --> 00:03:32,490
young earth creationism and intelligent

75
00:03:29,729 --> 00:03:34,889
design and I had the pleasure of

76
00:03:32,490 --> 00:03:37,080
visiting Eugenie at the National Center

77
00:03:34,889 --> 00:03:41,519
for Science Education in oakland

78
00:03:37,080 --> 00:03:43,980
california and i'm delighted to say that

79
00:03:41,520 --> 00:03:47,820
we've come to visit jeanne scott once

80
00:03:43,979 --> 00:03:50,579
again in open hello Jean hi there now

81
00:03:47,819 --> 00:03:52,799
this is my third or fourth visit I seem

82
00:03:50,580 --> 00:03:54,930
to be finding myself here almost every

83
00:03:52,800 --> 00:03:57,510
year over the years I think that's

84
00:03:54,930 --> 00:03:59,760
wonderful come back any any chance you

85
00:03:57,509 --> 00:04:02,669
get I do delighted to see you happy too

86

00:03:59,759 --> 00:04:04,560
now let's start straight away by

87
00:04:02,669 --> 00:04:06,750
something that struck me I was just

88
00:04:04,560 --> 00:04:08,789
looking at your notice board and i saw

89
00:04:06,750 --> 00:04:12,060
this lovely little booklet called Big

90
00:04:08,789 --> 00:04:16,199
Daddy with a classic classic as sort of

91
00:04:12,060 --> 00:04:19,319
a weird a poor chimpanzee eating banana

92
00:04:16,199 --> 00:04:21,120
big daddy ? my first sword on the wall I

93
00:04:19,319 --> 00:04:24,480
thought our that's interesting they've

94
00:04:21,120 --> 00:04:27,000
got a souvenir of the Big Daddy pamphlet

95
00:04:24,480 --> 00:04:29,550
from the creationists from the 70s which

96
00:04:27,000 --> 00:04:32,339
is the first time I remember seeing it I

97
00:04:29,550 --> 00:04:35,790
had a Sunday school teacher in fact it

98
00:04:32,339 --> 00:04:37,079
was a mad keen creationist and she is

99
00:04:35,790 --> 00:04:39,569
trying to convince us all she gave me

100
00:04:37,079 --> 00:04:41,609

this little book but upon further

101

00:04:39,569 --> 00:04:45,719

examination and I looked at the back

102

00:04:41,610 --> 00:04:48,000

it's got a website it talks about Lucy

103

00:04:45,720 --> 00:04:50,250

and that's what caught my eye thought

104

00:04:48,000 --> 00:04:53,129

Lucy 1970s that doesn't make any sense

105

00:04:50,250 --> 00:04:57,120

so they're using this tired old

106

00:04:53,129 --> 00:04:59,850

ridiculous Big Daddy and how the moon's

107

00:04:57,120 --> 00:05:02,970

missing that's interesting i think the

108

00:04:59,850 --> 00:05:05,550

original one had the age of the moon in

109

00:05:02,970 --> 00:05:08,790

it from the 70s well I couldn't tell you

110

00:05:05,550 --> 00:05:10,620

for sure but you know Lucy goes back to

111

00:05:08,790 --> 00:05:14,100

the 1970s you you may just be

112

00:05:10,620 --> 00:05:16,709

misremembering your original exposure to

113

00:05:14,100 --> 00:05:19,350

this gym here but this is yeah this is

114

00:05:16,709 --> 00:05:20,399

chick publications Jack T chick the

115
00:05:19,350 --> 00:05:23,310
famous Pam

116
00:05:20,399 --> 00:05:25,379
here from Southern California as soon as

117
00:05:23,310 --> 00:05:28,350
the web became available for

118
00:05:25,379 --> 00:05:32,159
proselytizing he pretty much jumped

119
00:05:28,350 --> 00:05:34,110
right on it I don't think that big daddy

120
00:05:32,160 --> 00:05:36,479
has been updated very much over the

121
00:05:34,110 --> 00:05:39,210
years it's a it is indeed one of the

122
00:05:36,478 --> 00:05:41,490
real classics yeah this this has been

123
00:05:39,209 --> 00:05:45,269
this has been one of their most popular

124
00:05:41,490 --> 00:05:47,400
of the creationist line course Jack

125
00:05:45,269 --> 00:05:49,349
chick has got a whole variety of

126
00:05:47,399 --> 00:05:51,659
pamphlets on a whole lot of other

127
00:05:49,350 --> 00:05:53,250
religious themes other than evolution

128
00:05:51,660 --> 00:05:55,289
course were only interested in

129

00:05:53,250 --> 00:05:56,910

collecting the evolution ones but yeah

130

00:05:55,288 --> 00:05:59,370

he's got a whole bunch of anti-catholic

131

00:05:56,910 --> 00:06:01,080

ones and he's got anti-jewish ones and

132

00:05:59,370 --> 00:06:03,389

he's got anti-gay ones he's got all

133

00:06:01,079 --> 00:06:07,918

kinds of stuff yeah it's a pretty it's a

134

00:06:03,389 --> 00:06:10,978

pretty sobering sight if you go to WWE

135

00:06:07,918 --> 00:06:14,549

com you must have gotten that domain

136

00:06:10,978 --> 00:06:16,769

name very early yes that's because

137

00:06:14,550 --> 00:06:19,110

domain names go he must have snagged

138

00:06:16,769 --> 00:06:22,639

that very early in the in the game yeah

139

00:06:19,110 --> 00:06:24,990

I seem to remember a number of years ago

140

00:06:22,639 --> 00:06:28,860

somehow doing a search for this sort of

141

00:06:24,990 --> 00:06:32,699

thing and coming across a PDF of that

142

00:06:28,860 --> 00:06:34,439

big daddy but it must have been from the

143

00:06:32,699 --> 00:06:36,509
70s or something like that because it

144
00:06:34,439 --> 00:06:38,728
seems to me that be the one I remember

145
00:06:36,509 --> 00:06:41,668
and as I say the one I remember from

146
00:06:38,728 --> 00:06:44,579
those all those years ago had the age of

147
00:06:41,668 --> 00:06:46,529
the moon as one of the arguments for a

148
00:06:44,579 --> 00:06:48,149
young earth DC well how do you explain

149
00:06:46,529 --> 00:06:49,668
that when the astronauts went to the

150
00:06:48,149 --> 00:06:52,168
moon and they put their foot in the

151
00:06:49,668 --> 00:06:54,930
whatever it was and the dust arguments

152
00:06:52,168 --> 00:06:57,209
oh the meteoritic dust on the moon yeah

153
00:06:54,930 --> 00:06:59,699
yes that's one of the classics I don't

154
00:06:57,209 --> 00:07:01,649
recall whether that was in Big Daddy I'm

155
00:06:59,699 --> 00:07:03,800
flipping through it right now but yeah

156
00:07:01,649 --> 00:07:05,728
that is that is one of the classic

157
00:07:03,800 --> 00:07:07,470

arguments that the creationists have

158

00:07:05,728 --> 00:07:09,899

used although interestingly enough if

159

00:07:07,470 --> 00:07:12,840

you go to Answers in Genesis which is

160

00:07:09,899 --> 00:07:14,598

now arguably the largest of the young

161

00:07:12,839 --> 00:07:19,668

earth creationist organizations

162

00:07:14,598 --> 00:07:21,478

surpassing in size it's the inspiration

163

00:07:19,668 --> 00:07:24,019

organization I guess you could call it

164

00:07:21,478 --> 00:07:27,300

the Institute for Creation Research

165

00:07:24,019 --> 00:07:30,658

inspiration oh yes Answers in Genesis

166

00:07:27,300 --> 00:07:33,620

could be considered progeny as it were

167

00:07:30,658 --> 00:07:35,120

of the icr

168

00:07:33,620 --> 00:07:38,090

started by one of your folks of course

169

00:07:35,120 --> 00:07:41,720

ken ham and Australian who came who was

170

00:07:38,089 --> 00:07:44,179

inspired by Henry Morris of the icr and

171

00:07:41,720 --> 00:07:45,770

came to the United States worked for the

172

00:07:44,180 --> 00:07:47,900

icr for a number of years and then

173

00:07:45,769 --> 00:07:51,948

branched off to form Answers in Genesis

174

00:07:47,899 --> 00:07:54,888

himself in Kentucky but anyway I CR has

175

00:07:51,949 --> 00:07:56,660

now grown larger than excuse me Answers

176

00:07:54,889 --> 00:07:59,090

in Genesis is growing larger than the

177

00:07:56,660 --> 00:08:01,010

Institute for Creation Research but if

178

00:07:59,089 --> 00:08:03,409

you look at the IC our website the

179

00:08:01,009 --> 00:08:05,389

answers in genesis org you'll find a

180

00:08:03,410 --> 00:08:07,939

list of arguments creationist should not

181

00:08:05,389 --> 00:08:10,639

use and the dust on the moon argument is

182

00:08:07,939 --> 00:08:12,918

one of them but they argue should not be

183

00:08:10,639 --> 00:08:15,410

used because it's not scientifically

184

00:08:12,918 --> 00:08:19,849

accurate which of course makes those of

185

00:08:15,410 --> 00:08:24,460

us train the science just hold our heads

186
00:08:19,850 --> 00:08:29,389
because I you know there's this kind of

187
00:08:24,459 --> 00:08:32,360
crazy craziness with with young Earth

188
00:08:29,389 --> 00:08:36,200
Creationism you know some of them some

189
00:08:32,360 --> 00:08:38,149
of them actually are trying to to act

190
00:08:36,200 --> 00:08:39,620
like scientists some of the time you

191
00:08:38,149 --> 00:08:43,189
know it which is what makes it such a

192
00:08:39,620 --> 00:08:45,379
fascinating area of sociological area of

193
00:08:43,190 --> 00:08:47,900
study I mean they'll they'll look at

194
00:08:45,379 --> 00:08:52,309
arguments like the dust on the moon

195
00:08:47,899 --> 00:08:54,610
argument or or a historical claim like

196
00:08:52,309 --> 00:08:56,809
Darwin's deathbed confession yeah and

197
00:08:54,610 --> 00:08:59,089
they'll look at the evidence and say

198
00:08:56,809 --> 00:09:00,949
okay that those are not valid arguments

199
00:08:59,089 --> 00:09:02,750
so we should stop using those or the

200

00:09:00,950 --> 00:09:04,640
second law of thermodynamics is not a

201
00:09:02,750 --> 00:09:08,120
valid argument against evolution so we

202
00:09:04,639 --> 00:09:11,870
should stop using that and yet at the

203
00:09:08,120 --> 00:09:16,009
same time they still do not reject the

204
00:09:11,870 --> 00:09:19,039
basic way of thinking about these issues

205
00:09:16,009 --> 00:09:20,990
which is the major problem that they

206
00:09:19,039 --> 00:09:24,519
have which is that you put the revealed

207
00:09:20,990 --> 00:09:27,289
truth of the Bible first and you look as

208
00:09:24,519 --> 00:09:30,049
in fact Ken Ham will tell you on his

209
00:09:27,289 --> 00:09:32,120
website you look at all of the empirical

210
00:09:30,049 --> 00:09:34,490
evidence through your biblical glasses

211
00:09:32,120 --> 00:09:37,100
that's the phrase that he uses that

212
00:09:34,490 --> 00:09:39,430
everything has to be viewed in terms of

213
00:09:37,100 --> 00:09:42,889
its agreement with a revealed truth yeah

214
00:09:39,429 --> 00:09:46,578

and that is the major stumbling block

215

00:09:42,889 --> 00:09:48,709

in terms of accordance with science so

216

00:09:46,578 --> 00:09:50,448

they kind of have to get over that first

217

00:09:48,708 --> 00:09:53,268

before they could really be taken

218

00:09:50,448 --> 00:09:55,698

seriously as scientists but you know God

219

00:09:53,269 --> 00:09:58,149

love them every once in a while they

220

00:09:55,698 --> 00:10:02,808

accidentally do something right like

221

00:09:58,149 --> 00:10:04,399

like Darwin's deathbed confession should

222

00:10:02,808 --> 00:10:07,688

be taken off the list of arguments of

223

00:10:04,399 --> 00:10:09,918

well thank you for that much anyway I

224

00:10:07,688 --> 00:10:12,528

heard an interview with Richard Dawkins

225

00:10:09,918 --> 00:10:14,778

slightly where he said that and his

226

00:10:12,528 --> 00:10:18,198

deathbed he wants video cameras and tape

227

00:10:14,778 --> 00:10:20,178

recorders rolling so no one can come

228

00:10:18,198 --> 00:10:26,628

back and say you know dork antenna

229
00:10:20,178 --> 00:10:28,818
deathbed revelation or something look it

230
00:10:26,629 --> 00:10:32,119
yeah yeah I think that's actually very

231
00:10:28,818 --> 00:10:35,599
funny Richard does have a sense of humor

232
00:10:32,119 --> 00:10:37,699
you know but somebody is probably going

233
00:10:35,600 --> 00:10:41,928
to seal a little puffs of vapour

234
00:10:37,698 --> 00:10:43,428
somewhere and say AHA the if you want to

235
00:10:41,928 --> 00:10:46,129
believe in that sort of thing you will

236
00:10:43,428 --> 00:10:49,488
find some kind of mystical evidence of

237
00:10:46,129 --> 00:10:51,259
God knows wet who I mean people will

238
00:10:49,489 --> 00:10:53,689
people will come up for evidence for

239
00:10:51,259 --> 00:10:55,459
what they want to believe in so somebody

240
00:10:53,688 --> 00:10:57,230
will probably cut 50 years from now we

241
00:10:55,458 --> 00:10:59,359
will probably have Dawkins deathbed

242
00:10:57,230 --> 00:11:03,949
confession or maybe even Scott's

243
00:10:59,360 --> 00:11:05,509
deathbed confession no sir our Saunders

244
00:11:03,948 --> 00:11:07,368
deathbed confession who knows what

245
00:11:05,509 --> 00:11:10,428
they'll be but I have this not 50 years

246
00:11:07,369 --> 00:11:15,739
I've been 70 but that's closer for me

247
00:11:10,428 --> 00:11:16,970
and dr. it's also the same accusation if

248
00:11:15,739 --> 00:11:18,879
that's the right word has been made

249
00:11:16,970 --> 00:11:22,339
about Carl Sagan that he had a

250
00:11:18,879 --> 00:11:27,288
conversion on his deathbed it's it's

251
00:11:22,339 --> 00:11:30,499
it's so very easily learned meme as it

252
00:11:27,288 --> 00:11:32,629
were mmm there there are some there are

253
00:11:30,499 --> 00:11:35,509
some ideas that are very easily learned

254
00:11:32,629 --> 00:11:37,489
and very rapidly spread yeah and that's

255
00:11:35,509 --> 00:11:40,220
one of them yeah that's an easy one too

256
00:11:37,489 --> 00:11:42,109
because you can just say it as we were

257

00:11:40,220 --> 00:11:44,839
discussing before the interview when you

258
00:11:42,109 --> 00:11:50,899
can just make stuff up and people will

259
00:11:44,839 --> 00:11:53,509
believe you MSU that's that that would

260
00:11:50,899 --> 00:11:55,058
be nice to put in cross stitch and frame

261
00:11:53,509 --> 00:11:57,699
it on the wall

262
00:11:55,058 --> 00:11:59,918
we say that a lot about our people we

263
00:11:57,698 --> 00:12:02,168
battle against especially in the

264
00:11:59,918 --> 00:12:04,359
skeptical world they can just make stuff

265
00:12:02,168 --> 00:12:07,509
up mmm the stuff you can read whatever

266
00:12:04,359 --> 00:12:09,609
other s were do you like but it's true

267
00:12:07,509 --> 00:12:12,729
but just speaking getting back to

268
00:12:09,609 --> 00:12:14,739
Richard Dawkins I recently had the

269
00:12:12,729 --> 00:12:17,859
pleasure of reading his new book yeah

270
00:12:14,739 --> 00:12:19,599
its greatest show on earth which I

271
00:12:17,859 --> 00:12:21,369

thoroughly enjoyed I really love his

272

00:12:19,599 --> 00:12:24,599

style he takes you on these wonderful

273

00:12:21,369 --> 00:12:27,668

little adventures down evolution and

274

00:12:24,599 --> 00:12:29,949

it's also it taught me an awful lot

275

00:12:27,668 --> 00:12:33,098

ending out the process of it and this

276

00:12:29,948 --> 00:12:37,408

wonderful idea of how important islands

277

00:12:33,099 --> 00:12:37,408

are mm-hmm to evolution and be those

278

00:12:37,499 --> 00:12:42,399

classic islands in the ocean like the

279

00:12:40,178 --> 00:12:44,139

Galactica's for example or the tops of

280

00:12:42,399 --> 00:12:45,788

mountains separated by deep valleys

281

00:12:44,139 --> 00:12:47,829

which are also islands and things like

282

00:12:45,788 --> 00:12:50,678

that and on and on it goes so if

283

00:12:47,828 --> 00:12:52,269

listeners haven't bought themselves a

284

00:12:50,678 --> 00:12:54,098

copy of the greatest show on earth I can

285

00:12:52,269 --> 00:12:57,219

thoroughly recommend it I imagine you

286
00:12:54,099 --> 00:13:00,489
enjoyed it very much very much and as he

287
00:12:57,219 --> 00:13:01,929
says in the introduction and I had never

288
00:13:00,489 --> 00:13:03,278
really thought about it this way and so

289
00:13:01,928 --> 00:13:05,619
that was really fun to read he says you

290
00:13:03,278 --> 00:13:07,568
know I've never actually sat down and

291
00:13:05,619 --> 00:13:11,889
written a book about the evidence for

292
00:13:07,568 --> 00:13:14,649
evolution yeah good idea yes good job

293
00:13:11,889 --> 00:13:18,219
yeah thanks for doing this and it's a

294
00:13:14,649 --> 00:13:20,438
very good I'm really I'm really glad he

295
00:13:18,219 --> 00:13:22,028
did and it's a very nice book for me to

296
00:13:20,438 --> 00:13:25,238
be able to recommend to people who are

297
00:13:22,028 --> 00:13:27,759
looking for a very readable and Jerry

298
00:13:25,239 --> 00:13:31,569
coins book is another very readable nice

299
00:13:27,759 --> 00:13:33,369
short introduction for people who are

300
00:13:31,568 --> 00:13:35,288
trying to understand what evolution is

301
00:13:33,369 --> 00:13:38,168
all about another person who's very good

302
00:13:35,288 --> 00:13:41,619
at that is Carl Zimmer he's written a

303
00:13:38,168 --> 00:13:43,058
new it's actually a textbook it's called

304
00:13:41,619 --> 00:13:45,129
the textbook it'll be marketed as a

305
00:13:43,058 --> 00:13:47,228
textbook but don't think of it as a text

306
00:13:45,129 --> 00:13:48,999
book because textbook has the

307
00:13:47,229 --> 00:13:51,038
connotation of being sort of boring and

308
00:13:48,999 --> 00:13:53,769
ponderous and this is not Carl Zimmer is

309
00:13:51,038 --> 00:13:56,408
a wonderful science writer and his book

310
00:13:53,769 --> 00:13:58,149
is extremely lively and well illustrated

311
00:13:56,408 --> 00:14:00,698
and it's just you know it's hard to put

312
00:13:58,149 --> 00:14:02,589
down so there is a number of really good

313
00:14:00,698 --> 00:14:05,469
books out on the market these days to

314

00:14:02,589 --> 00:14:07,160
help people understand why evolution is

315
00:14:05,470 --> 00:14:08,899
so well accepted by the

316
00:14:07,159 --> 00:14:11,299
to the community and what where the

317
00:14:08,899 --> 00:14:16,519
evidence comes from yeah yeah and and

318
00:14:11,299 --> 00:14:19,099
how how abundant that evidence is yes

319
00:14:16,519 --> 00:14:20,899
and I like the point that Dawkins makes

320
00:14:19,100 --> 00:14:24,259
in his book that the fossil record is

321
00:14:20,899 --> 00:14:26,028
it's it's a nice bonus mm-hmm as far as

322
00:14:24,259 --> 00:14:28,100
the evidence for evolution but it's not

323
00:14:26,028 --> 00:14:30,438
necessary so when the creationists

324
00:14:28,100 --> 00:14:33,528
squawk on which they will do to the end

325
00:14:30,438 --> 00:14:35,360
of time about missing or gaps or

326
00:14:33,528 --> 00:14:38,809
whatever the missing links gaps in the

327
00:14:35,360 --> 00:14:41,240
fossil record or whatever it is as far

328
00:14:38,809 --> 00:14:44,268

as the science goes it's neither here

329

00:14:41,240 --> 00:14:49,938

nor there actually I have to disagree

330

00:14:44,269 --> 00:14:51,560

with him on that because um we need all

331

00:14:49,938 --> 00:14:53,990

of the sources of evidence if we're

332

00:14:51,559 --> 00:14:55,849

gonna have a complete picture yeah I

333

00:14:53,990 --> 00:14:58,549

think it's wonderful that we have all

334

00:14:55,850 --> 00:15:00,199

this molecular evidence but that doesn't

335

00:14:58,549 --> 00:15:02,659

mean that the fossil evidence is

336

00:15:00,198 --> 00:15:04,250

obsolete I wonder if that I wonder if

337

00:15:02,659 --> 00:15:07,039

I've missed a Tuesday no you haven't

338

00:15:04,250 --> 00:15:11,509

because he was a was almost that that

339

00:15:07,039 --> 00:15:13,759

forceful in his book and and that's he

340

00:15:11,509 --> 00:15:15,800

was perhaps making a very useful point

341

00:15:13,759 --> 00:15:17,870

that we are not dependent upon the

342

00:15:15,799 --> 00:15:19,519

fossil evidence and that's a very good

343
00:15:17,870 --> 00:15:22,789
point to make especially with the

344
00:15:19,519 --> 00:15:25,698
general public which I think doesn't

345
00:15:22,789 --> 00:15:27,078
understand how how much we can

346
00:15:25,698 --> 00:15:29,568
supplement our understanding of

347
00:15:27,078 --> 00:15:33,919
evolution from the study of extent

348
00:15:29,568 --> 00:15:36,708
organism organism and and actually one

349
00:15:33,919 --> 00:15:38,419
of periodically people will ask me

350
00:15:36,708 --> 00:15:42,409
what's the single best source of

351
00:15:38,419 --> 00:15:44,899
information about evolution and lately

352
00:15:42,409 --> 00:15:46,338
I've been you know what what you can

353
00:15:44,899 --> 00:15:47,958
save the fossil record you can say

354
00:15:46,339 --> 00:15:50,410
genetics you can say they say that but

355
00:15:47,958 --> 00:15:56,028
lately I've been saying biogeography

356
00:15:50,409 --> 00:15:57,318
because it it's an area of evidence for

357
00:15:56,028 --> 00:15:59,208
evolution that most people don't think

358
00:15:57,318 --> 00:16:01,879
about but it was actually the one that

359
00:15:59,208 --> 00:16:04,399
Darwin thought was most strong and it

360
00:16:01,879 --> 00:16:06,889
still is a wonderful wonderful source of

361
00:16:04,399 --> 00:16:09,019
evidence for evolution because you know

362
00:16:06,889 --> 00:16:10,970
the distribution of plants and animals

363
00:16:09,019 --> 00:16:13,129
and their characteristics are the way

364
00:16:10,970 --> 00:16:14,920
they are because living things descended

365
00:16:13,129 --> 00:16:17,870
with modification from common ancestors

366
00:16:14,919 --> 00:16:19,349
but I'm diverging here from the point

367
00:16:17,870 --> 00:16:23,639
that we were talking about

368
00:16:19,350 --> 00:16:26,700
the fossil record is a wonderful source

369
00:16:23,639 --> 00:16:29,189
of information about evolution we are

370
00:16:26,700 --> 00:16:30,840
not dependent upon it but we there are

371

00:16:29,190 --> 00:16:33,410
things that we can understand about

372
00:16:30,840 --> 00:16:35,940
evolution only from the fossil record

373
00:16:33,409 --> 00:16:38,459
we're not going to find out well let's

374
00:16:35,940 --> 00:16:39,990
just take an example from the human but

375
00:16:38,460 --> 00:16:42,330
we're not going to find out when humans

376
00:16:39,990 --> 00:16:45,060
started using fire from molecules I

377
00:16:42,330 --> 00:16:46,620
understand yes I mean that's a really

378
00:16:45,059 --> 00:16:49,409
obvious one and we could come up with

379
00:16:46,620 --> 00:16:53,159
some other examples yeah okay now no I

380
00:16:49,409 --> 00:16:55,799
get the point but but be that as it may

381
00:16:53,159 --> 00:16:58,980
the the wealth of information that's

382
00:16:55,799 --> 00:17:02,370
hanging richard dawkins what what

383
00:16:58,980 --> 00:17:04,680
darwin's contemporary Huell called

384
00:17:02,370 --> 00:17:07,109
concilium the fact that all these

385
00:17:04,680 --> 00:17:08,820

different lines of evidence all point to

386

00:17:07,109 --> 00:17:12,359

the same conclusion that living things

387

00:17:08,819 --> 00:17:14,879

had common ancestors and today we would

388

00:17:12,359 --> 00:17:17,750

add to the biogeography that darwin

389

00:17:14,880 --> 00:17:22,320

talked about we would add the

390

00:17:17,750 --> 00:17:27,119

embryological evidence last night there

391

00:17:22,319 --> 00:17:32,309

was a wonderful program on the PBS nova

392

00:17:27,119 --> 00:17:33,989

program about evo-devo only one what

393

00:17:32,309 --> 00:17:35,730

Darwin didn't know what Darwin didn't

394

00:17:33,990 --> 00:17:38,069

yeah yeah I said that listed I didn't I

395

00:17:35,730 --> 00:17:39,420

didn't catch it i alas missed it last

396

00:17:38,069 --> 00:17:41,250

night i'll have to catch it online

397

00:17:39,420 --> 00:17:46,140

because we had dinner with some friends

398

00:17:41,250 --> 00:17:48,779

but the whole nature of understanding

399

00:17:46,140 --> 00:17:52,830

how it is that have fertilized cell

400
00:17:48,779 --> 00:17:54,450
becomes an organism and the similarities

401
00:17:52,829 --> 00:17:57,299
and differences of the genes and the

402
00:17:54,450 --> 00:17:58,980
patterns of development are the way they

403
00:17:57,299 --> 00:18:00,960
are because living things shared common

404
00:17:58,980 --> 00:18:02,819
ancestors I mean that is another insight

405
00:18:00,960 --> 00:18:04,710
into evolution and you can only

406
00:18:02,819 --> 00:18:07,259
understand those patterns of development

407
00:18:04,710 --> 00:18:08,640
if you understand evolution and you can

408
00:18:07,259 --> 00:18:09,930
only understand evolution if you

409
00:18:08,640 --> 00:18:12,509
understand those patterns of development

410
00:18:09,930 --> 00:18:14,700
so there's there's this feedback system

411
00:18:12,509 --> 00:18:17,849
and what they call evo-devo or evolution

412
00:18:14,700 --> 00:18:21,059
and development that becomes very clear

413
00:18:17,849 --> 00:18:23,129
when you when you look at both of these

414
00:18:21,059 --> 00:18:25,649
fields together so you have biogeography

415
00:18:23,130 --> 00:18:27,750
you have the field of embryology you

416
00:18:25,650 --> 00:18:31,080
have all the wonderful understandings we

417
00:18:27,750 --> 00:18:32,839
have from molecular evolutionary studies

418
00:18:31,079 --> 00:18:39,278
in comparison and

419
00:18:32,839 --> 00:18:41,720
comparison of various phylogenies of a

420
00:18:39,278 --> 00:18:45,109
variety of molecules a variety of

421
00:18:41,720 --> 00:18:46,370
proteins and enzymes and you know the

422
00:18:45,109 --> 00:18:48,259
more recently you shared a common

423
00:18:46,369 --> 00:18:51,168
ancestor the more similar your proteins

424
00:18:48,259 --> 00:18:55,158
I mean these kinds of patterns are very

425
00:18:51,169 --> 00:18:59,179
very clear only if evolution has taken

426
00:18:55,159 --> 00:19:01,580
place in genetics is the way it is

427
00:18:59,179 --> 00:19:03,710
because of common ancestry you can just

428

00:19:01,579 --> 00:19:06,288
find pattern after pattern after pattern

429
00:19:03,710 --> 00:19:08,860
in biology because of evolution yes and

430
00:19:06,288 --> 00:19:12,079
that is what he will meant by concilium

431
00:19:08,859 --> 00:19:14,629
that is that is really what Dawkins is

432
00:19:12,079 --> 00:19:16,158
talking about in his book he makes it's

433
00:19:14,630 --> 00:19:18,350
interesting he makes a couple the same

434
00:19:16,159 --> 00:19:21,110
points which is unavoidable I guess as

435
00:19:18,349 --> 00:19:24,048
he did in the ancestor's tale mmm which

436
00:19:21,109 --> 00:19:27,349
is a marvelous book too about when you

437
00:19:24,048 --> 00:19:30,259
go back you find the now what is the

438
00:19:27,349 --> 00:19:32,240
word he used for the common ancestor of

439
00:19:30,259 --> 00:19:33,769
two species when you go back in time

440
00:19:32,240 --> 00:19:35,058
you'll find the one common ancestor you

441
00:19:33,769 --> 00:19:37,158
can branch that back and back I just

442
00:19:35,058 --> 00:19:38,569

can't remember the term you used for

443

00:19:37,159 --> 00:19:40,429

that common ancestor but he talks about

444

00:19:38,569 --> 00:19:41,839

that in the greatest show on earth of

445

00:19:40,429 --> 00:19:43,759

course if you go back and you can make a

446

00:19:41,839 --> 00:19:46,308

u-turn and follow the other branch to

447

00:19:43,759 --> 00:19:48,140

another species for example with us if

448

00:19:46,308 --> 00:19:50,269

you go back far enough you'll find the

449

00:19:48,140 --> 00:19:53,090

common answers the common ancestor

450

00:19:50,269 --> 00:19:54,619

between us and chimpanzees and if you

451

00:19:53,089 --> 00:19:57,889

take a u-turn then you follow to the

452

00:19:54,619 --> 00:20:01,069

chimpanzees so that's a he just writes

453

00:19:57,890 --> 00:20:04,788

about it in such a readable way so

454

00:20:01,069 --> 00:20:07,428

easily I easily understood yes and now

455

00:20:04,788 --> 00:20:10,038

speaking of Darwin's documentaries on

456

00:20:07,429 --> 00:20:11,990

Darwin recently in Australia there was a

457
00:20:10,038 --> 00:20:13,278
four or five part of three part i can't

458
00:20:11,990 --> 00:20:14,630
remember series about the life of

459
00:20:13,278 --> 00:20:16,519
Charles Darwin which was interspersed

460
00:20:14,630 --> 00:20:17,720
with scientists commenting I can't

461
00:20:16,519 --> 00:20:20,898
remember if you were involved with that

462
00:20:17,720 --> 00:20:22,880
on an exit which was marvelous you know

463
00:20:20,898 --> 00:20:25,158
all about his life needs discoveries and

464
00:20:22,880 --> 00:20:27,710
that sort of thing and Wallace came into

465
00:20:25,159 --> 00:20:30,830
it not all that sort of stuff but I note

466
00:20:27,710 --> 00:20:34,340
and I was just in borders book shop

467
00:20:30,829 --> 00:20:37,668
yesterday in berkeley i think or

468
00:20:34,339 --> 00:20:39,678
downtown san francisco and i was looking

469
00:20:37,669 --> 00:20:42,049
on the documentary shelf for the dvds

470
00:20:39,679 --> 00:20:43,490
and there was one about Darwin I thought

471
00:20:42,048 --> 00:20:44,950
that looks interesting and I flip

472
00:20:43,490 --> 00:20:48,259
Verna's reading the back and said

473
00:20:44,950 --> 00:20:51,019
creation ministries what I think you

474
00:20:48,259 --> 00:20:53,150
know a little bit about this is the one

475
00:20:51,019 --> 00:20:56,599
that that is on your website about the

476
00:20:53,150 --> 00:20:58,790
or was it Darwin's I mean listen there

477
00:20:56,599 --> 00:21:01,279
is a list of creationist movies about

478
00:20:58,789 --> 00:21:04,009
narrow oh really yeah it's it's hard to

479
00:21:01,279 --> 00:21:06,200
know where shall we begin was it

480
00:21:04,009 --> 00:21:10,369
Darwin's dilemma yes okay well there you

481
00:21:06,200 --> 00:21:12,590
have it so you are asking perhaps about

482
00:21:10,369 --> 00:21:14,808
the lawsuit well I'm asking about that

483
00:21:12,589 --> 00:21:16,879
lil so I haven't seen this Darwin's

484
00:21:14,808 --> 00:21:20,329
dilemma I'm not I don't know too much

485

00:21:16,880 --> 00:21:22,100
about it you have you seen it I don't

486
00:21:20,329 --> 00:21:24,319
think I've seen that particular run no

487
00:21:22,099 --> 00:21:26,000
but I know what it's about because it's

488
00:21:24,319 --> 00:21:30,529
been making the rounds my colleagues

489
00:21:26,000 --> 00:21:33,289
have seen it okay um I've been 2009 has

490
00:21:30,529 --> 00:21:36,829
been a busy year it's been the big

491
00:21:33,289 --> 00:21:39,428
Darwin years so people literally all

492
00:21:36,829 --> 00:21:43,490
over the world have been having a lot of

493
00:21:39,429 --> 00:21:45,259
Darwin conferences and whose programs

494
00:21:43,490 --> 00:21:47,960
and it's it's been quite wonderful but

495
00:21:45,259 --> 00:21:51,950
I've had been fortunate enough to been

496
00:21:47,960 --> 00:21:53,360
invited on a lot of requests for

497
00:21:51,950 --> 00:21:56,058
Speaking so I've been out of the office

498
00:21:53,359 --> 00:21:57,439
a lot so yeah i'm a bit behind in a lot

499
00:21:56,058 --> 00:21:59,149

of these other kinds but you know my

500

00:21:57,440 --> 00:22:03,320

staff has seen it and so we know what

501

00:21:59,150 --> 00:22:08,420

it's about one of the main one of the

502

00:22:03,319 --> 00:22:13,909

main arguments made in this video is

503

00:22:08,420 --> 00:22:16,250

that the Cambrian explosion is an

504

00:22:13,910 --> 00:22:23,808

extremely difficult problem for

505

00:22:16,250 --> 00:22:26,808

evolution to handle that it is this

506

00:22:23,808 --> 00:22:28,789

insurmountable object for for evolution

507

00:22:26,808 --> 00:22:30,440

because evolution cannot explain the

508

00:22:28,789 --> 00:22:32,509

sudden appearance of all of these

509

00:22:30,440 --> 00:22:40,850

platforms which is a lot of nonsense of

510

00:22:32,509 --> 00:22:42,529

course MSU as we were saying so um this

511

00:22:40,849 --> 00:22:45,109

this of course comes as a great surprise

512

00:22:42,529 --> 00:22:47,389

to paleontologists who considered an

513

00:22:45,109 --> 00:22:49,159

interesting scientific puzzle but

514
00:22:47,390 --> 00:22:51,950
certainly not an insurmountable obstacle

515
00:22:49,160 --> 00:22:54,550
and certainly nothing that would throw

516
00:22:51,950 --> 00:22:56,549
out the possibility of evolution yeah

517
00:22:54,549 --> 00:23:00,240
number one there are

518
00:22:56,549 --> 00:23:03,419
precambrian precursors for this quote

519
00:23:00,240 --> 00:23:06,960
explosion and as two explosions it's a

520
00:23:03,420 --> 00:23:08,550
fairly it's an explosion in geological

521
00:23:06,960 --> 00:23:11,490
terms in the sense that it takes place

522
00:23:08,549 --> 00:23:13,889
over about you know 10 to 20 million

523
00:23:11,490 --> 00:23:15,809
years it's kind of a slow fuse for the

524
00:23:13,890 --> 00:23:17,490
most of us in terms of what we would

525
00:23:15,809 --> 00:23:22,049
consider an explosion but you know

526
00:23:17,490 --> 00:23:24,029
whatever it's it is interesting from a

527
00:23:22,049 --> 00:23:25,619
biological and geological standpoint

528
00:23:24,029 --> 00:23:28,379
because a lots happening pretty quickly

529
00:23:25,619 --> 00:23:30,659
and why this is happening is the

530
00:23:28,380 --> 00:23:32,940
interesting geological and

531
00:23:30,660 --> 00:23:35,640
paleontological puzzle is it because

532
00:23:32,940 --> 00:23:38,130
there's more oxygen is because there's

533
00:23:35,640 --> 00:23:39,780
more predation is it because things are

534
00:23:38,130 --> 00:23:41,220
forming shells because of greater

535
00:23:39,779 --> 00:23:43,019
predation I mean there's lots of fun

536
00:23:41,220 --> 00:23:45,059
stuff that paleontologists are playing

537
00:23:43,019 --> 00:23:46,769
with you but under no circumstances is

538
00:23:45,059 --> 00:23:48,899
anybody throwing up their hands and

539
00:23:46,769 --> 00:23:52,799
dismay and saying oh dear Darwin was

540
00:23:48,900 --> 00:23:56,070
wrong yes that's it but yeah this is one

541
00:23:52,799 --> 00:23:57,269
of the one of the melodies that the

542

00:23:56,069 --> 00:24:00,559
creationist have been playing for

543
00:23:57,269 --> 00:24:04,250
decades that this is a great problem so

544
00:24:00,559 --> 00:24:07,440
this movie as well as several other

545
00:24:04,250 --> 00:24:09,839
presentations of the creationists have

546
00:24:07,440 --> 00:24:11,309
been proposing that the Cambrian

547
00:24:09,839 --> 00:24:13,470
explosion is this insurmountable

548
00:24:11,309 --> 00:24:14,970
obstacle might be worth me buying

549
00:24:13,470 --> 00:24:16,529
actually because I noticed on the cover

550
00:24:14,970 --> 00:24:18,390
looks like they've got some actor to

551
00:24:16,529 --> 00:24:21,269
play Charles Darwin and it almost looks

552
00:24:18,390 --> 00:24:23,060
like a documentary I suppose it is in a

553
00:24:21,269 --> 00:24:26,609
way but it was on the same shot as he

554
00:24:23,059 --> 00:24:29,700
expelled well at least it's in with

555
00:24:26,609 --> 00:24:32,699
birds of a feather that's right so but

556
00:24:29,700 --> 00:24:34,380

that's magic expelled also includes the

557

00:24:32,700 --> 00:24:36,600

idea that the Cambrian explosion is this

558

00:24:34,380 --> 00:24:38,820

great problem for evolution probably I

559

00:24:36,599 --> 00:24:41,369

have watched it but I sort of erase it

560

00:24:38,819 --> 00:24:44,549

from my mind but is it's an interesting

561

00:24:41,369 --> 00:24:46,439

tech they're taking now to UM to do

562

00:24:44,549 --> 00:24:50,250

something like this to create a notice

563

00:24:46,440 --> 00:24:52,710

what looks like a historical drama /

564

00:24:50,250 --> 00:24:57,480

documentary about Charles Darwin however

565

00:24:52,710 --> 00:24:58,860

basically bagging what he did well

566

00:24:57,480 --> 00:25:00,029

that's free speech I'm all for free

567

00:24:58,859 --> 00:25:01,589

speech there's one thing I'm a

568

00:25:00,029 --> 00:25:06,299

fundamentalist about it's free speech

569

00:25:01,589 --> 00:25:08,220

they certainly can have the right to to

570

00:25:06,299 --> 00:25:10,559

express their opinions on these matters

571
00:25:08,220 --> 00:25:12,329
that's right i mean do you know what we

572
00:25:10,559 --> 00:25:15,389
need is more speech to counter it that's

573
00:25:12,329 --> 00:25:16,740
all and and as was chatting i'm having a

574
00:25:15,390 --> 00:25:18,630
nice cup of coffee from this very

575
00:25:16,740 --> 00:25:21,029
interesting coffee mug that you ver

576
00:25:18,630 --> 00:25:23,100
indeed that i purchased mind you you've

577
00:25:21,029 --> 00:25:24,720
purchased it was on sale it's from a

578
00:25:23,099 --> 00:25:26,759
museum i'll have you have you know

579
00:25:24,720 --> 00:25:28,400
listeners so it's very good it's got it

580
00:25:26,759 --> 00:25:30,359
it's from a museum it's got a

581
00:25:28,400 --> 00:25:32,990
triceratops a very nice looking

582
00:25:30,359 --> 00:25:35,819
Triceratops has a wonderful quality

583
00:25:32,990 --> 00:25:38,519
creation museum indeed prepare to

584
00:25:35,819 --> 00:25:41,639
believe Genesis 11 that says and the

585
00:25:38,519 --> 00:25:44,339
riding on it seems to be oh yes let the

586
00:25:41,640 --> 00:25:47,700
waters let the God and things endless

587
00:25:44,339 --> 00:25:50,819
bit faint the earth was and the dinosaur

588
00:25:47,700 --> 00:25:53,549
covers up half the words but this is

589
00:25:50,819 --> 00:25:56,970
from the creation museum in in Kentucky

590
00:25:53,549 --> 00:26:01,169
and you had a nice time Abbas's unit yes

591
00:25:56,970 --> 00:26:05,190
I visited the creation museum in oak

592
00:26:01,170 --> 00:26:07,170
ashwin was that now is that how quickly

593
00:26:05,190 --> 00:26:12,120
they forget you and I guess it was with

594
00:26:07,170 --> 00:26:14,420
the image recently there was a North

595
00:26:12,119 --> 00:26:18,899
American paleontological conference

596
00:26:14,420 --> 00:26:21,269
meeting in Cincinnati and one of the

597
00:26:18,900 --> 00:26:24,140
field trips that the organizers of the

598
00:26:21,269 --> 00:26:26,460
conference decided upon was just to go

599

00:26:24,140 --> 00:26:29,280
around the corner so to speak to the

600
00:26:26,460 --> 00:26:32,670
creation museum which was located just

601
00:26:29,279 --> 00:26:34,799
about 15 miles away and so a couple of

602
00:26:32,670 --> 00:26:36,230
busloads of paleontologist showed up at

603
00:26:34,799 --> 00:26:39,359
the creation museum and it was a

604
00:26:36,230 --> 00:26:41,089
wonderful experience the press loved it

605
00:26:39,359 --> 00:26:44,219
by the way you can find plenty of

606
00:26:41,089 --> 00:26:45,839
coverage of this because and I was all

607
00:26:44,220 --> 00:26:47,279
for it I thought this was a wonderfully

608
00:26:45,839 --> 00:26:50,129
educational experience for the

609
00:26:47,279 --> 00:26:54,200
paleontology because they really need to

610
00:26:50,130 --> 00:26:56,820
see what what was being presented to the

611
00:26:54,200 --> 00:26:59,039
citizens there if I might make a quick

612
00:26:56,819 --> 00:27:03,389
point not to interrupt your flow of

613
00:26:59,039 --> 00:27:06,119

conversation the I encourage skeptics to

614

00:27:03,390 --> 00:27:08,009

visit for example New Age festivals

615

00:27:06,119 --> 00:27:09,539

right you have to know what I'm talking

616

00:27:08,009 --> 00:27:10,799

about you have to know what the other

617

00:27:09,539 --> 00:27:13,349

people are thinking and what they're

618

00:27:10,799 --> 00:27:15,389

peddling and what they're doing so I

619

00:27:13,349 --> 00:27:17,399

that was a marvelous idea mm-hmm we

620

00:27:15,390 --> 00:27:22,049

carry on indeed well there you have it

621

00:27:17,400 --> 00:27:26,190

and I did I bought some books for our

622

00:27:22,048 --> 00:27:30,029

library of course and but I I just had

623

00:27:26,190 --> 00:27:32,400

to buy a mug we we have a quite a quite

624

00:27:30,029 --> 00:27:35,639

a good assortment of of mugs here at NC

625

00:27:32,400 --> 00:27:37,230

SC in our kitchen and this one was on

626

00:27:35,640 --> 00:27:38,940

sale it was being remaindered and

627

00:27:37,230 --> 00:27:40,740

clearance so I didn't want to spend

628
00:27:38,940 --> 00:27:42,450
whole life yeah that's so i bought a

629
00:27:40,740 --> 00:27:44,759
clearance mug it was quite attractive

630
00:27:42,450 --> 00:27:46,230
it's really not very nice i were kind of

631
00:27:44,759 --> 00:27:48,929
big dinosaur fans around it's a nice

632
00:27:46,230 --> 00:27:50,669
deep much it is indeed it said good

633
00:27:48,929 --> 00:27:53,850
quality and a good quality my very good

634
00:27:50,669 --> 00:27:55,880
quality in fact pride of place and what

635
00:27:53,849 --> 00:27:58,589
did you think of the creation you see

636
00:27:55,880 --> 00:28:01,620
well I had a pretty good idea what I was

637
00:27:58,589 --> 00:28:04,769
going to see because one of our NCSE

638
00:28:01,619 --> 00:28:07,739
members Stan Phelps had done an

639
00:28:04,769 --> 00:28:10,109
exceedingly thorough tour had literally

640
00:28:07,740 --> 00:28:12,839
photographed every bit of signage in the

641
00:28:10,109 --> 00:28:14,908
museum he done a fabulous job and every

642
00:28:12,839 --> 00:28:18,959
single exhibit and had written up an

643
00:28:14,909 --> 00:28:20,400
extraordinarily detailed tour and had

644
00:28:18,960 --> 00:28:23,100
posted the whole shootin match on her

645
00:28:20,400 --> 00:28:26,850
website so I pretty much know what was

646
00:28:23,099 --> 00:28:30,990
there it it's the kind of traditional

647
00:28:26,849 --> 00:28:34,709
creation science I knew that it was very

648
00:28:30,990 --> 00:28:39,980
high quality exhibits the animatronic

649
00:28:34,710 --> 00:28:43,919
dinosaurs were first rate I mean the

650
00:28:39,980 --> 00:28:46,200
videos that they projected in the video

651
00:28:43,919 --> 00:28:51,150
screening rooms were you know very

652
00:28:46,200 --> 00:28:54,210
nicely done there there was a great deal

653
00:28:51,150 --> 00:28:57,600
more religious proselytizing that I

654
00:28:54,210 --> 00:29:00,179
anticipated I mean I knew that you know

655
00:28:57,599 --> 00:29:03,750
the whole purpose of this museum

656

00:29:00,179 --> 00:29:05,640
obviously was to try to bring people to

657
00:29:03,750 --> 00:29:07,250
their particular religious perspective

658
00:29:05,640 --> 00:29:11,190
again that's another free speech issue

659
00:29:07,250 --> 00:29:13,529
freedom of religion and of course the

660
00:29:11,190 --> 00:29:16,580
the the science is sort of a way of

661
00:29:13,529 --> 00:29:19,460
trying to bring them to that perspective

662
00:29:16,579 --> 00:29:22,369
but it was really quite heavy handed

663
00:29:19,460 --> 00:29:24,440
and I think had I been a religious

664
00:29:22,369 --> 00:29:28,278
person I might have been offended in

665
00:29:24,440 --> 00:29:30,649
fact the scientists who were on the trip

666
00:29:28,278 --> 00:29:35,000
who were religious were very offended

667
00:29:30,648 --> 00:29:39,528
because their religious views were were

668
00:29:35,000 --> 00:29:41,839
being sometimes directly and certainly

669
00:29:39,528 --> 00:29:44,028
indirectly criticized as not being pure

670
00:29:41,839 --> 00:29:47,019

enough so oh yes yes yes yes I've seen

671

00:29:44,028 --> 00:29:49,519

that before with the relation astir will

672

00:29:47,019 --> 00:29:53,750

insufficiently did not only against

673

00:29:49,519 --> 00:29:56,179

martyr Christians yeah and it was sort

674

00:29:53,750 --> 00:29:58,819

of like you you you really have to heal

675

00:29:56,179 --> 00:30:00,470

very very closely to a a biblical

676

00:29:58,819 --> 00:30:02,720

literalist point of view otherwise you

677

00:30:00,470 --> 00:30:05,929

are not being you know a proper

678

00:30:02,720 --> 00:30:07,990

Christian and as I say the the

679

00:30:05,929 --> 00:30:13,700

scientists who were people of faith who

680

00:30:07,990 --> 00:30:16,069

attended were offended by that and but

681

00:30:13,700 --> 00:30:18,009

of course all of the scientists whether

682

00:30:16,069 --> 00:30:20,960

they were religious or non-religious

683

00:30:18,009 --> 00:30:22,819

were affected by the quality of it but

684

00:30:20,960 --> 00:30:26,778

by the distortions of the science that

685
00:30:22,819 --> 00:30:29,509
was presented and the idea that I mean

686
00:30:26,778 --> 00:30:32,690
these were scientists who had spent

687
00:30:29,509 --> 00:30:35,390
their lives trying very hard to

688
00:30:32,690 --> 00:30:38,000
understand nature and it's not easy I

689
00:30:35,390 --> 00:30:40,640
mean I mean Nature doesn't just sit

690
00:30:38,000 --> 00:30:43,369
there and say okay here's the answer you

691
00:30:40,640 --> 00:30:45,880
have to in something the cases of these

692
00:30:43,369 --> 00:30:48,949
paleontologists literally dig it out and

693
00:30:45,880 --> 00:30:51,260
you get you go down blind alleys

694
00:30:48,950 --> 00:30:53,298
sometimes and sometimes it's three steps

695
00:30:51,259 --> 00:30:55,369
backwards and two steps forward maybe a

696
00:30:53,298 --> 00:30:57,829
step to the side and you kind of muddle

697
00:30:55,369 --> 00:31:00,079
around a bit and sometimes you work for

698
00:30:57,829 --> 00:31:02,359
years before you actually stumble upon

699
00:31:00,079 --> 00:31:04,220
the right answer and and now all of a

700
00:31:02,359 --> 00:31:08,000
sudden this is being treated in a very

701
00:31:04,220 --> 00:31:10,490
Cavalier fashion yes as if these

702
00:31:08,000 --> 00:31:12,829
conclusions don't really matter because

703
00:31:10,490 --> 00:31:15,169
well after all they don't agree with the

704
00:31:12,829 --> 00:31:17,269
revealed true with these people's

705
00:31:15,169 --> 00:31:20,509
interpretation of the revealed truth of

706
00:31:17,269 --> 00:31:23,148
the Bible and I think that was offensive

707
00:31:20,509 --> 00:31:26,839
to every scientist there just the the

708
00:31:23,148 --> 00:31:30,500
general the general putting down of the

709
00:31:26,839 --> 00:31:33,439
scientific procedures that resulted in

710
00:31:30,500 --> 00:31:35,359
the consensus view that we all held

711
00:31:33,440 --> 00:31:37,820
scientists going there which was yes

712
00:31:35,359 --> 00:31:39,500
there's lots of evidence that living

713

00:31:37,819 --> 00:31:41,388
things that had common ancestors we all

714
00:31:39,500 --> 00:31:43,700
agreed upon that but that was being

715
00:31:41,388 --> 00:31:46,398
totally dismissed from this institution

716
00:31:43,700 --> 00:31:48,470
was there much stifled laughter or just

717
00:31:46,398 --> 00:31:51,918
discussed everybody was very polite

718
00:31:48,470 --> 00:31:53,600
everybody was very polite there was a I

719
00:31:51,919 --> 00:31:57,320
mean because there were many other

720
00:31:53,599 --> 00:31:59,599
people there as well and you know all

721
00:31:57,319 --> 00:32:03,740
the paleontologists were and around

722
00:31:59,599 --> 00:32:06,168
their best behavior I think amongst

723
00:32:03,740 --> 00:32:07,638
ourselves and you know if we were the

724
00:32:06,169 --> 00:32:09,559
only people in the room I think there

725
00:32:07,638 --> 00:32:10,908
certainly were some sort of comments to

726
00:32:09,558 --> 00:32:14,678
one another and certain amount of eye

727
00:32:10,909 --> 00:32:17,778

rolling yeah but I didn't see anybody

728

00:32:14,679 --> 00:32:19,519

it's certainly nobody created a fuss or

729

00:32:17,778 --> 00:32:21,558

anything like that nobody nobody had to

730

00:32:19,519 --> 00:32:24,349

be thrown out I mean everybody was

731

00:32:21,558 --> 00:32:27,200

behaving properly well that's good um so

732

00:32:24,349 --> 00:32:29,329

you found the coffee mug in the gift

733

00:32:27,200 --> 00:32:31,159

shop India oh the gift shop just tell me

734

00:32:29,329 --> 00:32:34,038

about man the gift shop was bigger in my

735

00:32:31,159 --> 00:32:38,840

office I don't mean this little office I

736

00:32:34,038 --> 00:32:40,788

mean my whole life yes it it was really

737

00:32:38,839 --> 00:32:44,240

quite quite the place yeah yeah that's

738

00:32:40,788 --> 00:32:46,638

what do they have oh they had it looked

739

00:32:44,240 --> 00:32:48,589

like a big library I mean they had lots

740

00:32:46,638 --> 00:32:51,888

of books they had lots of knickknacks

741

00:32:48,589 --> 00:32:55,308

they have toys they had games they had

742
00:32:51,888 --> 00:32:58,908
videos they had plenty more mugs they

743
00:32:55,308 --> 00:33:02,298
had lots and lots of stuff all kinds of

744
00:32:58,909 --> 00:33:04,669
stuff oh I admitted I was amusing you

745
00:33:02,298 --> 00:33:07,700
could get ties you could get all sorts

746
00:33:04,669 --> 00:33:12,830
of wonderful items I actually ended up

747
00:33:07,700 --> 00:33:15,620
buying a whole sampler a box of books my

748
00:33:12,829 --> 00:33:18,349
my in our archivist was just overjoyed

749
00:33:15,619 --> 00:33:20,918
that we got this whole sampler box of

750
00:33:18,349 --> 00:33:24,319
educational materials there yes

751
00:33:20,919 --> 00:33:26,360
creationist I and that would be oh yeah

752
00:33:24,319 --> 00:33:28,398
it's a i'm good i don't buy one of those

753
00:33:26,359 --> 00:33:33,519
i've been the last time that has a crop

754
00:33:28,398 --> 00:33:35,798
circles on it ah how wonderful ebay

755
00:33:33,519 --> 00:33:38,839
creationist one would be quite funny

756
00:33:35,798 --> 00:33:42,200
have you seen Richard Dawkins croco duct

757
00:33:38,839 --> 00:33:44,168
I know I well I I haven't actually said

758
00:33:42,200 --> 00:33:46,450
this to anyone but when

759
00:33:44,169 --> 00:33:49,389
see Richard was in town i guess it was

760
00:33:46,450 --> 00:33:51,730
in october he was doing a fundraiser and

761
00:33:49,388 --> 00:33:55,508
for the foundation and Silicon Valley

762
00:33:51,730 --> 00:33:59,798
and also but he was he had been in

763
00:33:55,509 --> 00:34:03,909
Southern California for the meeting of

764
00:33:59,798 --> 00:34:06,158
the AI mean but anyway so he came by and

765
00:34:03,909 --> 00:34:08,139
I had invited him to stop by because I

766
00:34:06,159 --> 00:34:09,639
thought he might like to meet staff and

767
00:34:08,139 --> 00:34:14,169
staff could meet him and that would be

768
00:34:09,639 --> 00:34:15,548
fun so he he showed up and I we were

769
00:34:14,168 --> 00:34:18,098
having a staff meeting it and you've

770

00:34:15,548 --> 00:34:19,509
seen our our staff table there and I

771
00:34:18,099 --> 00:34:21,789
looked out the door and I said well Oh

772
00:34:19,510 --> 00:34:24,280
in the doorbell rang and I looked out

773
00:34:21,789 --> 00:34:25,750
the window and the door was glass and I

774
00:34:24,280 --> 00:34:27,579
said well there's Richard oh god he's

775
00:34:25,750 --> 00:34:29,710
wearing a horrible-looking died I

776
00:34:27,579 --> 00:34:31,750
couldn't help you know and everybody

777
00:34:29,710 --> 00:34:34,659
laughed and Richard walked in and it was

778
00:34:31,750 --> 00:34:36,668
this god-awful tie was this white tie

779
00:34:34,659 --> 00:34:38,500
and it had these big yellow splotches

780
00:34:36,668 --> 00:34:40,779
all over to thought where I mean

781
00:34:38,500 --> 00:34:43,119
ordinarily Richard is just impeccably

782
00:34:40,780 --> 00:34:44,889
dressed he was very nice suits he's very

783
00:34:43,119 --> 00:34:47,769
well-groomed and and it was wearing this

784
00:34:44,889 --> 00:34:49,179

god-awful tie and he sat down it when it

785

00:34:47,769 --> 00:34:51,190

got close enough it and we all just

786

00:34:49,179 --> 00:34:52,690

roared because of this croco death tie

787

00:34:51,190 --> 00:34:54,700

it was hysterically funny well

788

00:34:52,690 --> 00:34:58,539

apparently there's only two croco duck

789

00:34:54,699 --> 00:35:00,129

ties in the universe who the good old

790

00:34:58,539 --> 00:35:03,219

internet again apparently you can you

791

00:35:00,130 --> 00:35:04,539

can give a pattern to some company on

792

00:35:03,219 --> 00:35:06,548

the internet and they will make you a

793

00:35:04,539 --> 00:35:10,750

custom tie and there's apparently only

794

00:35:06,548 --> 00:35:13,690

two and PZ Myers has one and richard has

795

00:35:10,750 --> 00:35:17,079

one but really you only want to wear

796

00:35:13,690 --> 00:35:19,119

them among friends really an absolutely

797

00:35:17,079 --> 00:35:21,849

horrible looking tie in terms of

798

00:35:19,119 --> 00:35:23,798

anything but it's the wonderful Crocodoc

799

00:35:21,849 --> 00:35:28,059
with the that they're really nicely

800

00:35:23,798 --> 00:35:30,579
drawn one with the the worthy the scales

801

00:35:28,059 --> 00:35:32,440
of the crocodile hill had really blend

802

00:35:30,579 --> 00:35:34,269
nicely into the body of the doc they're

803

00:35:32,440 --> 00:35:36,909
really high quality one excellent

804

00:35:34,269 --> 00:35:38,349
excellent art I'm just have myself I can

805

00:35:36,909 --> 00:35:41,469
find a picture that that sounds

806

00:35:38,349 --> 00:35:43,490
fantastic but this was pretty funny but

807

00:35:41,469 --> 00:35:46,849
I quite like your you

808

00:35:43,489 --> 00:35:49,009
logo oh yes change i'm not sure we do we

809

00:35:46,849 --> 00:35:51,049
do with the since your last visit that's

810

00:35:49,010 --> 00:35:52,130
Jess your change you know it was changed

811

00:35:51,050 --> 00:35:54,440
or something because I noticed when we

812

00:35:52,130 --> 00:35:56,660
came to the door there cranked we

813
00:35:54,440 --> 00:35:59,119
changed our logo it was just about a

814
00:35:56,659 --> 00:36:01,219
year ago when we changed our website and

815
00:35:59,119 --> 00:36:04,539
and we sort of you know I thought is

816
00:36:01,219 --> 00:36:11,509
very soon yeah yeah our website needed a

817
00:36:04,539 --> 00:36:13,820
as one of my under 20 staff members said

818
00:36:11,510 --> 00:36:15,470
you know when we started this process

819
00:36:13,820 --> 00:36:25,010
about two years ago she said you know

820
00:36:15,469 --> 00:36:27,589
our website is so 1990s okay well and

821
00:36:25,010 --> 00:36:31,490
yes yes I understood what that meant so

822
00:36:27,590 --> 00:36:33,710
so we we did indeed have to our website

823
00:36:31,489 --> 00:36:36,739
really needed a facelift and it needed

824
00:36:33,710 --> 00:36:38,780
refreshing and it needed some some back

825
00:36:36,739 --> 00:36:46,329
door plumbing that to make it more

826
00:36:38,780 --> 00:36:49,460
usable and so we we we hired a designer

827

00:36:46,329 --> 00:36:52,880
who just did a wonderful wonderful job

828
00:36:49,460 --> 00:36:54,980
and we it took a long time to really

829
00:36:52,880 --> 00:36:57,890
think through how we wanted to redesign

830
00:36:54,980 --> 00:36:59,929
it and reorganize it and then as part of

831
00:36:57,889 --> 00:37:01,670
that of course we we'd been thinking for

832
00:36:59,929 --> 00:37:04,549
a long time that we needed a new logo

833
00:37:01,670 --> 00:37:06,829
because nobody could really identify the

834
00:37:04,550 --> 00:37:09,470
old you know sort of squash spider that

835
00:37:06,829 --> 00:37:14,059
we had there didn't and so we actually

836
00:37:09,469 --> 00:37:15,889
had a contest to suggest a new logo and

837
00:37:14,059 --> 00:37:17,809
we we suggested something having to do

838
00:37:15,889 --> 00:37:22,190
with trees because evolution is all

839
00:37:17,809 --> 00:37:25,219
about trees of course right and that the

840
00:37:22,190 --> 00:37:29,570
did you extra gold star if you recognize

841
00:37:25,219 --> 00:37:32,689

our logo directly yes did our logo speak

842

00:37:29,570 --> 00:37:34,789

to you my friend oh I'm going to miss

843

00:37:32,690 --> 00:37:36,500

out on that gold star naughty in the

844

00:37:34,789 --> 00:37:39,980

gold star where's that where is it let

845

00:37:36,500 --> 00:37:41,750

me well let's see I can provide that too

846

00:37:39,980 --> 00:37:43,550

pretty quick oops that's the old one no

847

00:37:41,750 --> 00:37:46,969

the old 1s the old man you saw a bit

848

00:37:43,550 --> 00:37:48,950

there we go tada oh my gosh no I take

849

00:37:46,969 --> 00:37:54,108

out your glasses let's have a look all

850

00:37:48,949 --> 00:37:55,939

right he's looking now that I'm very

851

00:37:54,108 --> 00:37:56,929

kiss telling it very careful to see the

852

00:37:55,940 --> 00:38:02,358

tree

853

00:37:56,929 --> 00:38:06,019

it's a very special tree 2009 was a very

854

00:38:02,358 --> 00:38:07,639

special year I'm giving him lots of

855

00:38:06,019 --> 00:38:09,650

hints you you are giving me lots of him

856
00:38:07,639 --> 00:38:11,929
I'm gonna have to have is a very special

857
00:38:09,650 --> 00:38:14,059
year because I a particularly important

858
00:38:11,929 --> 00:38:17,960
person was born two hundred years well

859
00:38:14,059 --> 00:38:19,760
I'm gathering that but I'm so funny that

860
00:38:17,960 --> 00:38:22,760
you left it you have to that was the

861
00:38:19,760 --> 00:38:25,910
first tree so to speak that was the

862
00:38:22,760 --> 00:38:29,930
sketch of a tree that Darwin sketched

863
00:38:25,909 --> 00:38:32,568
out in one of his early notebooks of

864
00:38:29,929 --> 00:38:36,379
course yeah not regulation will give you

865
00:38:32,568 --> 00:38:38,838
a Silver Star I guess a slightly aki

866
00:38:36,380 --> 00:38:41,000
mechanic it's a slightly stylized

867
00:38:38,838 --> 00:38:44,318
version of it but it's it's basically

868
00:38:41,000 --> 00:38:46,130
darwin by striking i quite like it yeah

869
00:38:44,318 --> 00:38:50,900
National Center for Science Education

870
00:38:46,130 --> 00:38:53,059
and the website of course is wwan SI SE

871
00:38:50,900 --> 00:38:55,608
kaam which is very easy to remember

872
00:38:53,059 --> 00:38:58,640
indeed although i've seem to have

873
00:38:55,608 --> 00:39:00,828
trouble her memory chip um now you're

874
00:38:58,639 --> 00:39:06,858
the National Center for Science

875
00:39:00,829 --> 00:39:11,780
Education is how old don't well we were

876
00:39:06,858 --> 00:39:14,929
incorporated in 1983 okay and I've been

877
00:39:11,780 --> 00:39:19,190
the director since 1987 and how is the

878
00:39:14,929 --> 00:39:21,108
last year fed for the the center well it

879
00:39:19,190 --> 00:39:24,380
were a nonprofit organization so that

880
00:39:21,108 --> 00:39:27,318
means every year we have to you know we

881
00:39:24,380 --> 00:39:33,048
we have to raise money so you can join

882
00:39:27,318 --> 00:39:35,779
online at that ends ESET com site that's

883
00:39:33,048 --> 00:39:38,059
the one but as far as your activities go

884

00:39:35,780 --> 00:39:40,760
and your outreach in your battles hasn't

885
00:39:38,059 --> 00:39:42,650
been a good year well a good year would

886
00:39:40,760 --> 00:39:44,089
be no activity at all so in that sense

887
00:39:42,650 --> 00:39:47,930
it hasn't been a good year we've been

888
00:39:44,088 --> 00:39:50,449
very busy next year actually it's coming

889
00:39:47,929 --> 00:39:52,308
to January which in the United States is

890
00:39:50,449 --> 00:39:54,889
the beginning of the legislative season

891
00:39:52,309 --> 00:39:57,380
the state legislatures are going to be

892
00:39:54,889 --> 00:40:00,048
coming into session again we anticipate

893
00:39:57,380 --> 00:40:01,430
a number of bills will be filed we some

894
00:40:00,048 --> 00:40:04,519
have already been pre-filed that we're

895
00:40:01,429 --> 00:40:07,548
watching to propose what are called

896
00:40:04,519 --> 00:40:10,519
academic freedom was academic freedom

897
00:40:07,548 --> 00:40:10,730
acts and these are laws that attempt to

898
00:40:10,519 --> 00:40:13,280

burr

899

00:40:10,730 --> 00:40:15,710

in creationism enter the back door they

900

00:40:13,280 --> 00:40:18,109

don't know very sneaky region us aren't

901

00:40:15,710 --> 00:40:20,480

stupid you know and and they learned

902

00:40:18,108 --> 00:40:22,099

long ago that you can't bring

903

00:40:20,480 --> 00:40:26,000

creationism in through the front door

904

00:40:22,099 --> 00:40:28,250

you can't because of our legal our First

905

00:40:26,000 --> 00:40:31,579

Amendment separating church and state

906

00:40:28,250 --> 00:40:35,090

you can't you can't promote religion

907

00:40:31,579 --> 00:40:37,190

directly in the schools you have to be

908

00:40:35,090 --> 00:40:39,858

religiously neutral in a public school

909

00:40:37,190 --> 00:40:43,490

so you can't bring in creationism or

910

00:40:39,858 --> 00:40:45,739

intelligent design so what they try to

911

00:40:43,489 --> 00:40:49,099

do is bring in through these academic

912

00:40:45,739 --> 00:40:55,339

freedom X bring in all the explanations

913
00:40:49,099 --> 00:40:57,650
or particularly interesting with some of

914
00:40:55,340 --> 00:41:00,608
these academic freedom acts the argument

915
00:40:57,650 --> 00:41:03,590
is being made to just attack evolution

916
00:41:00,608 --> 00:41:05,750
so you bring in the strengths and

917
00:41:03,590 --> 00:41:08,600
weaknesses of evolution or a critical

918
00:41:05,750 --> 00:41:10,730
analysis of evolution or there's a whole

919
00:41:08,599 --> 00:41:13,880
list of euphemisms that they use for

920
00:41:10,730 --> 00:41:16,130
this sort of thing and of course if you

921
00:41:13,880 --> 00:41:17,599
go to the science community and they say

922
00:41:16,130 --> 00:41:20,599
well can I please have the list of

923
00:41:17,599 --> 00:41:23,029
arguments against evolution there aren't

924
00:41:20,599 --> 00:41:25,009
any and the only place where you find

925
00:41:23,030 --> 00:41:26,780
that the strengths and weaknesses of

926
00:41:25,010 --> 00:41:30,950
evolutionism from the creationists of

927
00:41:26,780 --> 00:41:32,960
course so this is a restful for this

928
00:41:30,949 --> 00:41:35,809
they all teach both sides always the

929
00:41:32,960 --> 00:41:38,300
balance or this side note it's it's yeah

930
00:41:35,809 --> 00:41:42,019
it's a very common and a very attractive

931
00:41:38,300 --> 00:41:44,150
finish it sounds famous its fairness is

932
00:41:42,019 --> 00:41:46,550
a is always sells very well in

933
00:41:44,150 --> 00:41:50,389
democratic countries yes and you know

934
00:41:46,550 --> 00:41:52,670
i'm all for fairness but what is fair is

935
00:41:50,389 --> 00:41:54,920
for the creationist to demonstrate

936
00:41:52,670 --> 00:41:57,139
they've actually got a science and then

937
00:41:54,920 --> 00:42:01,550
they have a right to be taught but it's

938
00:41:57,139 --> 00:42:03,618
not fair for them to argue that they

939
00:42:01,550 --> 00:42:05,960
have a right to be taught without making

940
00:42:03,619 --> 00:42:08,240
that demonstration first and they have

941

00:42:05,960 --> 00:42:11,179
not demonstrated that they have a way of

942
00:42:08,239 --> 00:42:12,849
understanding nature hmm and until they

943
00:42:11,179 --> 00:42:15,739
do they don't have a right to be taught

944
00:42:12,849 --> 00:42:17,299
as long as as long as there's the

945
00:42:15,739 --> 00:42:17,929
national scent of science education

946
00:42:17,300 --> 00:42:20,240
people

947
00:42:17,929 --> 00:42:23,449
Eugenie Scott out there batting for our

948
00:42:20,239 --> 00:42:25,279
side so to speak with our allies yeah

949
00:42:23,449 --> 00:42:26,779
it's giving them a hard time I think we

950
00:42:25,280 --> 00:42:29,750
can all rest a little bit at night but

951
00:42:26,780 --> 00:42:32,210
the fight certainly goes on well it's

952
00:42:29,750 --> 00:42:34,369
like the Red Queen we are running as

953
00:42:32,210 --> 00:42:36,679
hard as we can to stay just a little bit

954
00:42:34,369 --> 00:42:38,900
ahead Gina Scott thank you very much

955
00:42:36,679 --> 00:42:54,469

thank you it's always a lot of fun to

956

00:42:38,900 --> 00:42:56,568

talk to hi I'm dr. Stefan Soyka from the

957

00:42:54,469 --> 00:42:58,848

MIT of vibrational galactic atomic

958

00:42:56,568 --> 00:43:01,190

health institute for applied wellness

959

00:42:58,849 --> 00:43:03,619

and I'm here to tell you about what is

960

00:43:01,190 --> 00:43:06,019

probably the greatest medical discovery

961

00:43:03,619 --> 00:43:08,358

to have manifested in any of the lower

962

00:43:06,019 --> 00:43:11,509

five or six dimensions since the dawn of

963

00:43:08,358 --> 00:43:15,230

the first astrological age introducing

964

00:43:11,510 --> 00:43:18,020

the life wire the life wire is nothing

965

00:43:15,230 --> 00:43:20,690

less than a miracle in metaphysical form

966

00:43:18,019 --> 00:43:22,969

attracting health akala T and will being

967

00:43:20,690 --> 00:43:24,619

issued from every known point in the

968

00:43:22,969 --> 00:43:27,108

universe where health akala tea and

969

00:43:24,619 --> 00:43:30,108

well-being itude resides and delivering

970
00:43:27,108 --> 00:43:32,328
it straight to your body and soul the

971
00:43:30,108 --> 00:43:35,210
life wire harnesses scalar energy

972
00:43:32,329 --> 00:43:37,970
quantum energy solar energy and

973
00:43:35,210 --> 00:43:39,889
masculine bovine fecal energy in an

974
00:43:37,969 --> 00:43:42,919
advanced highly complex and

975
00:43:39,889 --> 00:43:45,500
incredulously simple process using a

976
00:43:42,920 --> 00:43:47,809
meticulously contrived blend of carbon

977
00:43:45,500 --> 00:43:50,510
and iron the carbonic and ionic

978
00:43:47,809 --> 00:43:52,880
particles resonate and vibrate to the

979
00:43:50,510 --> 00:43:55,400
atomic frequency bestowed upon them by

980
00:43:52,880 --> 00:43:58,519
the universe rendering the entire life

981
00:43:55,400 --> 00:44:01,369
wire construct a healing wand talisman

982
00:43:58,519 --> 00:44:03,980
charm or totem the life wire has been

983
00:44:01,369 --> 00:44:06,619
lovingly forged in China where the wire

984
00:44:03,980 --> 00:44:09,318
is set into its initial physical state

985
00:44:06,619 --> 00:44:11,990
by adherence of Confucianism Taoism

986
00:44:09,318 --> 00:44:14,210
Buddhism and Zoroastrianism a physical

987
00:44:11,989 --> 00:44:16,608
state that to the uneducated looks a lot

988
00:44:14,210 --> 00:44:18,349
like a paperclip the employees at our

989
00:44:16,608 --> 00:44:21,348
factory are paid as little as possible

990
00:44:18,349 --> 00:44:23,150
to ensure the philosophical purity of

991
00:44:21,349 --> 00:44:25,250
the life wire and that it is not

992
00:44:23,150 --> 00:44:27,139
tarnished by the material desires of

993
00:44:25,250 --> 00:44:29,329
those who are blessed with a privilege

994
00:44:27,139 --> 00:44:30,170
of bending the life wire into its phase

995
00:44:29,329 --> 00:44:32,600
one

996
00:44:30,170 --> 00:44:35,090
Eagle Forum in phase two the life were

997
00:44:32,599 --> 00:44:37,579
embarked on an odyssey traversing the

998

00:44:35,090 --> 00:44:40,220
globe initially in the back of a hiace

999
00:44:37,579 --> 00:44:41,869
van from Chizu in the Ann Hui province

1000
00:44:40,219 --> 00:44:44,029
then into a shipping container in

1001
00:44:41,869 --> 00:44:46,159
Shenzhen loaded onto a Norwegian

1002
00:44:44,030 --> 00:44:48,680
registered cargo ship bound for Sydney

1003
00:44:46,159 --> 00:44:50,929
Australia for its entire journey the

1004
00:44:48,679 --> 00:44:53,539
life wire not only picks up the Earth's

1005
00:44:50,929 --> 00:44:55,730
magnetic resonance but many powerful

1006
00:44:53,539 --> 00:44:57,949
properties and ancient race memories

1007
00:44:55,730 --> 00:44:59,800
collected via the belief systems of the

1008
00:44:57,949 --> 00:45:02,719
Filipino merchant seaman on board

1009
00:44:59,800 --> 00:45:05,450
Catholicism egli pianism iglesia ni

1010
00:45:02,719 --> 00:45:08,239
cristo ism and animism much like a metal

1011
00:45:05,449 --> 00:45:10,579
detector picks up gold on a beach phase

1012
00:45:08,239 --> 00:45:12,409

3 the life wire is hurled into the back

1013

00:45:10,579 --> 00:45:14,480
of a fedex pan by the Box load and

1014

00:45:12,409 --> 00:45:16,339
delivered using global positioning

1015

00:45:14,480 --> 00:45:18,110
system technology to the meta

1016

00:45:16,340 --> 00:45:20,329
vibrational galactic atomic Health

1017

00:45:18,110 --> 00:45:22,490
Institute for applied will illness it is

1018

00:45:20,329 --> 00:45:25,130
right here at the Institute where each

1019

00:45:22,489 --> 00:45:27,379
life wire is individually processed and

1020

00:45:25,130 --> 00:45:29,780
charged with its infinite healing power

1021

00:45:27,380 --> 00:45:31,970
the final shape shifting of the physical

1022

00:45:29,780 --> 00:45:34,130
life wire form is done by innocent

1023

00:45:31,969 --> 00:45:36,769
children to guarantee you absolute

1024

00:45:34,130 --> 00:45:39,320
healing purity my nephew's unbend the

1025

00:45:36,769 --> 00:45:41,570
life wire into a four-sided obelisk I'd

1026

00:45:39,320 --> 00:45:44,330
structure with the two ends not quite

1027
00:45:41,570 --> 00:45:47,150
meeting this unfinished loop is the life

1028
00:45:44,329 --> 00:45:48,710
wise secret the two ends so much want to

1029
00:45:47,150 --> 00:45:51,139
touch each other that they channel

1030
00:45:48,710 --> 00:45:53,449
infinite energy in their infinite desire

1031
00:45:51,139 --> 00:45:55,309
to connect this longing is the same

1032
00:45:53,449 --> 00:45:57,829
longing that a mother feels for a lost

1033
00:45:55,309 --> 00:45:59,900
child a galaxy feels for its black hole

1034
00:45:57,829 --> 00:46:02,059
a methamphetamine addict hangs out for

1035
00:45:59,900 --> 00:46:04,880
grammar vice and your body yearns for

1036
00:46:02,059 --> 00:46:07,130
wellbeing ification and infinite pining

1037
00:46:04,880 --> 00:46:09,860
that both you and the live wires share

1038
00:46:07,130 --> 00:46:13,039
which is why you need to be together for

1039
00:46:09,860 --> 00:46:15,650
just 79 dollars 95 lat can be yours

1040
00:46:13,039 --> 00:46:17,779
channeling your every need and taking

1041
00:46:15,650 --> 00:46:20,150
the responsibility for everything you do

1042
00:46:17,780 --> 00:46:22,460
for you place one in your wallet to

1043
00:46:20,150 --> 00:46:24,889
attract wealth another on your computer

1044
00:46:22,460 --> 00:46:27,079
to stop spam and so another into your

1045
00:46:24,889 --> 00:46:31,579
underpants for more intense sexual

1046
00:46:27,079 --> 00:46:33,500
gratification and fertility every \$79.95

1047
00:46:31,579 --> 00:46:34,940
vibrational galactic atomic health

1048
00:46:33,500 --> 00:46:37,159
institute for applied wellness is

1049
00:46:34,940 --> 00:46:39,260
another touch point in a spacetime

1050
00:46:37,159 --> 00:46:40,219
continuum and another opportunity for

1051
00:46:39,260 --> 00:46:42,859
you to matter

1052
00:46:40,219 --> 00:46:46,159
the sum total of energy in the entire

1053
00:46:42,858 --> 00:46:49,009
universe in every cell of your body why

1054
00:46:46,159 --> 00:46:51,889
I transfer me your money and life wire

1055

00:46:49,010 --> 00:46:53,960
will transfer everything and by scalar

1056
00:46:51,889 --> 00:47:01,789
zero-point energy theory that means

1057
00:46:53,960 --> 00:47:06,699
nothing to you now it's time for dr.

1058
00:47:01,789 --> 00:47:06,699
Ritchie reports with dr. Rachel Dunlop

1059
00:47:07,030 --> 00:47:12,140
hello listeners and welcome to dr.

1060
00:47:09,559 --> 00:47:14,719
Richie reports this week I tell you a

1061
00:47:12,139 --> 00:47:18,379
tale of blue-green algae attacking Birds

1062
00:47:14,719 --> 00:47:20,179
Hollywood and dementia now many

1063
00:47:18,380 --> 00:47:21,590
listeners especially our Australian

1064
00:47:20,179 --> 00:47:24,679
listeners would be familiar with

1065
00:47:21,590 --> 00:47:26,660
blue-green algae in particular if you

1066
00:47:24,679 --> 00:47:28,759
have spent any time in South Australia

1067
00:47:26,659 --> 00:47:30,920
you may recall periodic government

1068
00:47:28,760 --> 00:47:33,140
alerts warning against drinking the

1069
00:47:30,920 --> 00:47:36,289

water or using it for recreation during

1070

00:47:33,139 --> 00:47:38,839

outbreaks our breaks are known as blooms

1071

00:47:36,289 --> 00:47:41,300

and they describe an increase in the

1072

00:47:38,840 --> 00:47:43,490

number of algal cells to a point where

1073

00:47:41,300 --> 00:47:46,460

they can discolor the water produce

1074

00:47:43,489 --> 00:47:48,439

unpleasant tastes and odors affect

1075

00:47:46,460 --> 00:47:52,338

shellfish and fish populations and

1076

00:47:48,440 --> 00:47:54,800

seriously reduce the water quality since

1077

00:47:52,338 --> 00:47:57,108

many types of algae produce toxins they

1078

00:47:54,800 --> 00:47:58,700

can also make you very sick and have

1079

00:47:57,108 --> 00:48:02,809

been responsible for the deaths of

1080

00:47:58,699 --> 00:48:05,809

livestock and marine species blue-green

1081

00:48:02,809 --> 00:48:08,179

algae is also known as cyanobacteria and

1082

00:48:05,809 --> 00:48:10,759

they are in fact photosynthesizing

1083

00:48:08,179 --> 00:48:13,399

bacteria which are green when they're

1084
00:48:10,760 --> 00:48:16,700
metabolizing and growing and turn bluish

1085
00:48:13,400 --> 00:48:18,588
when they are dying algal blooms occur

1086
00:48:16,699 --> 00:48:21,230
in all types of waterways and water

1087
00:48:18,588 --> 00:48:24,559
storages and bloom when nutrients and

1088
00:48:21,230 --> 00:48:26,929
light are high whilst not all species

1089
00:48:24,559 --> 00:48:29,239
which make up algal blooms are toxic

1090
00:48:26,929 --> 00:48:33,199
there is no way to know until you test

1091
00:48:29,239 --> 00:48:35,479
them so it is best to steer clear also

1092
00:48:33,199 --> 00:48:38,239
toxicity varies with the seasons and

1093
00:48:35,480 --> 00:48:41,869
environmental conditions the toxins

1094
00:48:38,239 --> 00:48:44,239
including domoic acid and B mae which

1095
00:48:41,869 --> 00:48:46,809
is a neurotoxin are released as the

1096
00:48:44,239 --> 00:48:49,368
bloom dies and the cells become leaky

1097
00:48:46,809 --> 00:48:51,588
domoic acid has been implicated in

1098
00:48:49,369 --> 00:48:52,769
serious food poisonings and even deaths

1099
00:48:51,588 --> 00:48:56,269
associated

1100
00:48:52,769 --> 00:48:58,110
shellfish poisoning and BMAA in

1101
00:48:56,269 --> 00:49:01,670
neurodegeneration such as Alzheimer's

1102
00:48:58,110 --> 00:49:04,530
disease Lou Gehrig's disease or ALS in

1103
00:49:01,670 --> 00:49:06,539
Australia toxicity associated with

1104
00:49:04,530 --> 00:49:09,750
blue-green algae has been documented as

1105
00:49:06,539 --> 00:49:12,090
far back as the 1850s were accounts by

1106
00:49:09,750 --> 00:49:14,219
European explorers and settlers contain

1107
00:49:12,090 --> 00:49:17,010
numerous references to scums or

1108
00:49:14,219 --> 00:49:19,019
discolored water the earliest documented

1109
00:49:17,010 --> 00:49:22,050
scientific evidence was published in

1110
00:49:19,019 --> 00:49:25,019
nature in 1878 in a paper called

1111
00:49:22,050 --> 00:49:27,120
poisonous australian lake the report

1112

00:49:25,019 --> 00:49:29,250
described a bloom floated to the lake

1113
00:49:27,119 --> 00:49:32,539
surface and was wafting to Lee Shores

1114
00:49:29,250 --> 00:49:35,250
forming a scum two to six inches thick

1115
00:49:32,539 --> 00:49:37,769
large numbers of livestock ingested the

1116
00:49:35,250 --> 00:49:40,829
scum via drinking including horses sheep

1117
00:49:37,769 --> 00:49:43,860
and cattle and later died and one woman

1118
00:49:40,829 --> 00:49:46,289
became seriously ill the deaths and

1119
00:49:43,860 --> 00:49:47,910
publication of the nature paper created

1120
00:49:46,289 --> 00:49:50,489
a heightened awareness amongst the

1121
00:49:47,909 --> 00:49:52,440
public leading to warnings and police

1122
00:49:50,489 --> 00:49:54,599
troopers stationed at various points

1123
00:49:52,440 --> 00:49:58,050
along water bodies to warn of

1124
00:49:54,599 --> 00:49:59,670
approaching blooms but in Australia in

1125
00:49:58,050 --> 00:50:02,820
the summer of nineteen ninety one in

1126
00:49:59,670 --> 00:50:04,769

1992 an enormous bloom occurred in the

1127

00:50:02,820 --> 00:50:07,680

barwon darling river system in New South

1128

00:50:04,769 --> 00:50:09,659

Wales this bloom spread over an area

1129

00:50:07,679 --> 00:50:12,269

spanning a thousand kilometres and

1130

00:50:09,659 --> 00:50:14,789

remains today the world's largest algal

1131

00:50:12,269 --> 00:50:16,739

bloom but it's not only livestock and

1132

00:50:14,789 --> 00:50:19,829

humans who are at risk of illness when

1133

00:50:16,739 --> 00:50:22,259

exposed to algal blooms a very famous

1134

00:50:19,829 --> 00:50:24,809

case of sea life allegedly falling

1135

00:50:22,260 --> 00:50:28,950

victim to poisoning from algae occurred

1136

00:50:24,809 --> 00:50:33,779

in California USA in the early hours of

1137

00:50:28,949 --> 00:50:36,059

August 17 1961 residents of Santa Cruz

1138

00:50:33,780 --> 00:50:38,670

were invaded by a massive flight of

1139

00:50:36,059 --> 00:50:41,059

sooty shearwaters slamming into their

1140

00:50:38,670 --> 00:50:44,130

homes and littering the streets in town

1141
00:50:41,059 --> 00:50:46,559
the santa cruz sentinel reported the

1142
00:50:44,130 --> 00:50:49,980
incident under the headline seabird

1143
00:50:46,559 --> 00:50:52,279
invasion hits coastal homes when the

1144
00:50:49,980 --> 00:50:54,539
light of day made the area visible

1145
00:50:52,280 --> 00:50:57,510
residents found the street covered with

1146
00:50:54,539 --> 00:50:59,730
birds the birds disgorged bits of fish

1147
00:50:57,510 --> 00:51:01,950
and fish skeletons over the streets and

1148
00:50:59,730 --> 00:51:04,829
lawns and housetops living an

1149
00:51:01,949 --> 00:51:06,480
overpowering fishy stench several

1150
00:51:04,829 --> 00:51:08,250
theories exist as to the cause

1151
00:51:06,480 --> 00:51:11,039
of this mass destruction and death of

1152
00:51:08,250 --> 00:51:12,900
seabirds the first explanation was

1153
00:51:11,039 --> 00:51:15,000
offered at the time of the incident by

1154
00:51:12,900 --> 00:51:18,300
museum zoologist from the University of

1155
00:51:15,000 --> 00:51:19,889
California Ward Russell who proposed

1156
00:51:18,300 --> 00:51:22,560
that the birds were disturbed whilst

1157
00:51:19,889 --> 00:51:24,480
feeding became disorientated in heavy

1158
00:51:22,559 --> 00:51:26,880
fog that layered the coast that morning

1159
00:51:24,480 --> 00:51:28,829
and headed for the light of the town

1160
00:51:26,880 --> 00:51:32,789
including tortures held by curious

1161
00:51:28,829 --> 00:51:34,769
residents thus appearing to attack but

1162
00:51:32,789 --> 00:51:38,000
scientists now speculate that ingestion

1163
00:51:34,769 --> 00:51:40,619
of toxic algae may have played a role

1164
00:51:38,000 --> 00:51:42,900
what is known is that the incident

1165
00:51:40,619 --> 00:51:45,329
sparked the interest of an author across

1166
00:51:42,900 --> 00:51:48,570
the globe in Cornwall England whom

1167
00:51:45,329 --> 00:51:50,279
several years earlier in 1952 had also

1168
00:51:48,570 --> 00:51:53,760
been attacked by birds but in a very

1169

00:51:50,280 --> 00:51:56,490
different scenario in an autobiography

1170
00:51:53,760 --> 00:51:58,050
of author Daphne du Mario called the

1171
00:51:56,489 --> 00:52:01,079
private world of Daphne du Maurier

1172
00:51:58,050 --> 00:52:03,090
author Martin Shawcross describes

1173
00:52:01,079 --> 00:52:05,489
demario was walking her dog by a lake

1174
00:52:03,090 --> 00:52:07,860
when two hungry seagulls attacked her

1175
00:52:05,489 --> 00:52:11,069
dog than her forcing her to seek shelter

1176
00:52:07,860 --> 00:52:14,760
under nearby tree the result was the

1177
00:52:11,070 --> 00:52:18,600
1952 short story the birds four days

1178
00:52:14,760 --> 00:52:21,090
after the 1961 sooty shearwater incident

1179
00:52:18,599 --> 00:52:23,940
in Santa Cruz the Santa Cruz Sentinel

1180
00:52:21,090 --> 00:52:26,130
had another story to report Hollywood

1181
00:52:23,940 --> 00:52:28,860
mystery producer Alfred Hitchcock phoned

1182
00:52:26,130 --> 00:52:30,599
the Sentinel Saturday to let us know he

1183
00:52:28,860 --> 00:52:32,640

is using last Friday's edition as

1184

00:52:30,599 --> 00:52:35,549
research material for his latest

1185

00:52:32,639 --> 00:52:37,259
thriller apparently the movie version of

1186

00:52:35,550 --> 00:52:39,960
Demaryius book was already underway

1187

00:52:37,260 --> 00:52:41,670
under the supervision of Hitchcock but

1188

00:52:39,960 --> 00:52:43,769
the Santa Cruz incident may have

1189

00:52:41,670 --> 00:52:46,170
inspired him to change the location from

1190

00:52:43,769 --> 00:52:50,039
the quaint hills of Cornwall England to

1191

00:52:46,170 --> 00:52:52,950
Bodega Bay California where his 1963 the

1192

00:52:50,039 --> 00:52:54,809
birds thriller was eventually set so we

1193

00:52:52,949 --> 00:52:56,909
now know that blue-green algae can be

1194

00:52:54,809 --> 00:53:00,299
toxic to both humans and animals and in

1195

00:52:56,909 --> 00:53:02,389
some cases fatally sure it's natural but

1196

00:53:00,300 --> 00:53:04,830
this doesn't necessarily make it safe

1197

00:53:02,389 --> 00:53:07,259
cyanide is derived from the kernels of

1198
00:53:04,829 --> 00:53:10,259
apricots it's completely natural but it

1199
00:53:07,260 --> 00:53:11,700
will kill you the Ebola virus is also

1200
00:53:10,260 --> 00:53:13,950
natural but you will suffer an

1201
00:53:11,699 --> 00:53:17,819
excruciating death as your organs slough

1202
00:53:13,949 --> 00:53:20,239
out your orifices so as such it puzzles

1203
00:53:17,820 --> 00:53:22,640
me that you can buy cyanobacteria from

1204
00:53:20,239 --> 00:53:26,739
your local health food store in a powder

1205
00:53:22,639 --> 00:53:29,359
or tablet and marketed as spirulina

1206
00:53:26,739 --> 00:53:32,509
touted as a hundred percent pure and

1207
00:53:29,360 --> 00:53:34,579
natural nature's superfood and totally

1208
00:53:32,510 --> 00:53:37,430
natural product spirulina is

1209
00:53:34,579 --> 00:53:40,849
nevertheless blue-green algae meaning

1210
00:53:37,429 --> 00:53:42,829
contamination with BMAA domoic acid and

1211
00:53:40,849 --> 00:53:46,519
other toxins cannot be completely

1212
00:53:42,829 --> 00:53:49,809
discounted following the publishing of a

1213
00:53:46,519 --> 00:53:52,880
paper from the group of Paul Cox in 2005

1214
00:53:49,809 --> 00:53:56,299
which reported 30 types of cyanobacteria

1215
00:53:52,880 --> 00:53:58,670
were contaminated with BMAA the

1216
00:53:56,300 --> 00:54:01,130
spirulina industry went into overdrive

1217
00:53:58,670 --> 00:54:04,010
to ensure their customers that their

1218
00:54:01,130 --> 00:54:06,920
products were safe several issued press

1219
00:54:04,010 --> 00:54:10,640
releases emphasizing correctly that the

1220
00:54:06,920 --> 00:54:13,119
Cox paper did not test spirulina one

1221
00:54:10,639 --> 00:54:16,339
company called cyano tech corporation

1222
00:54:13,119 --> 00:54:19,309
apparently approached Cox to test their

1223
00:54:16,340 --> 00:54:21,559
spirulina for BMAA to which they say he

1224
00:54:19,309 --> 00:54:23,570
did not respond the company then

1225
00:54:21,559 --> 00:54:26,269
enlisted the services of another

1226

00:54:23,570 --> 00:54:30,110
professor of Biological Sciences to test

1227
00:54:26,269 --> 00:54:32,179
their BMAA professor Carmichael reported

1228
00:54:30,110 --> 00:54:34,460
his findings confirming the absence of

1229
00:54:32,179 --> 00:54:37,279
detectable levels of the suspected

1230
00:54:34,460 --> 00:54:40,190
neurotoxin BMAA in cyano Tech's

1231
00:54:37,280 --> 00:54:42,350
spirulina specific up this is good news

1232
00:54:40,190 --> 00:54:45,019
for this batch of spirulina and for this

1233
00:54:42,349 --> 00:54:47,980
company but what about other producers

1234
00:54:45,019 --> 00:54:50,869
of spirulina as discussed earlier

1235
00:54:47,980 --> 00:54:53,659
biological variability dictate that

1236
00:54:50,869 --> 00:54:55,759
levels of toxins synthesized by

1237
00:54:53,659 --> 00:54:57,949
cyanobacteria are different from season

1238
00:54:55,760 --> 00:55:00,350
to season for some of their lifetime

1239
00:54:57,949 --> 00:55:03,949
blue-green algae may have no toxins

1240
00:55:00,349 --> 00:55:06,440

other times large quantities if I was a

1241
00:55:03,949 --> 00:55:09,500
consumer of spirulina I would want every

1242
00:55:06,440 --> 00:55:11,179
batch tested before I took it in another

1243
00:55:09,500 --> 00:55:14,300
press release from Earth rise

1244
00:55:11,179 --> 00:55:16,460
nutritional they stated it should also

1245
00:55:14,300 --> 00:55:19,430
be pointed out that the connection

1246
00:55:16,460 --> 00:55:23,030
between BMAA and Alzheimer's disease is

1247
00:55:19,429 --> 00:55:25,489
far from certain dr. Paul Cox's group

1248
00:55:23,030 --> 00:55:27,769
has not made any definite connection in

1249
00:55:25,489 --> 00:55:29,750
their report and other experts in the

1250
00:55:27,769 --> 00:55:32,960
field have expressed their reservations

1251
00:55:29,750 --> 00:55:35,510
the Alzheimer's BMA a

1252
00:55:32,960 --> 00:55:37,608
was first proposed by Cox and colleagues

1253
00:55:35,510 --> 00:55:40,339
including the author and famous

1254
00:55:37,608 --> 00:55:43,429
neurologist dr. Oliver Sacks when they

1255
00:55:40,338 --> 00:55:46,369
found BMAA in the brains of Canadian and

1256
00:55:43,429 --> 00:55:49,909
Guam Alzheimer's patients but not in

1257
00:55:46,369 --> 00:55:51,920
control patients this hypothesis has

1258
00:55:49,909 --> 00:55:53,299
been further strengthened with recent

1259
00:55:51,920 --> 00:55:56,030
findings from scientists at the

1260
00:55:53,300 --> 00:55:58,519
University of Miami where BMAA was

1261
00:55:56,030 --> 00:56:02,170
detected in the brain and spinal cords

1262
00:55:58,519 --> 00:56:05,570
of ALS patients or Lou Gehrig's disease

1263
00:56:02,170 --> 00:56:07,700
similarly veterans of the Gulf War have

1264
00:56:05,570 --> 00:56:10,010
increased incidences of Lou Gehrig's

1265
00:56:07,699 --> 00:56:13,069
disease at a younger age than the rest

1266
00:56:10,010 --> 00:56:15,800
of the population studies into the

1267
00:56:13,070 --> 00:56:18,830
causes included analyses of the deserts

1268
00:56:15,800 --> 00:56:21,339
of Qatar and showed that fifty six

1269
00:56:18,829 --> 00:56:23,809
percent of the area consisted of

1270
00:56:21,338 --> 00:56:28,400
cyanobacterial crusts and mats which

1271
00:56:23,809 --> 00:56:31,639
contained BMAA further an elegant Google

1272
00:56:28,400 --> 00:56:33,289
Maps epidemiological study of a cluster

1273
00:56:31,639 --> 00:56:35,989
of Lou Gehrig's patients in New

1274
00:56:33,289 --> 00:56:38,420
Hampshire revealed that many had recited

1275
00:56:35,989 --> 00:56:40,848
by water bodies which had been subject

1276
00:56:38,420 --> 00:56:44,329
to frequent algal blooms now although

1277
00:56:40,849 --> 00:56:46,760
the Alzheimer's BMAA Lou Gehrig's

1278
00:56:44,329 --> 00:56:49,130
hypothesis is not yet proven the

1279
00:56:46,760 --> 00:56:52,060
evidence is compelling enough for me to

1280
00:56:49,130 --> 00:56:54,349
think twice before I consume spirulina

1281
00:56:52,059 --> 00:56:57,230
especially when one grower has the

1282
00:56:54,349 --> 00:56:59,539
following listed as side effects slight

1283

00:56:57,230 --> 00:57:02,329
fever due to the body's need to burn the

1284
00:56:59,539 --> 00:57:05,420
extra protein from spirulina slight

1285
00:57:02,329 --> 00:57:08,829
dizziness if this occurs take less of

1286
00:57:05,420 --> 00:57:12,470
the product first and constipation

1287
00:57:08,829 --> 00:57:15,529
stomach ache skin itch or slight body

1288
00:57:12,469 --> 00:57:18,559
rash people who have food poisoning from

1289
00:57:15,530 --> 00:57:21,430
consuming contaminated shellfish often

1290
00:57:18,559 --> 00:57:24,380
suffer symptoms such as dizziness nausea

1291
00:57:21,429 --> 00:57:27,259
and memory loss after consuming

1292
00:57:24,380 --> 00:57:29,570
contaminated material these are pretty

1293
00:57:27,260 --> 00:57:32,359
similar symptoms to what we see as the

1294
00:57:29,570 --> 00:57:34,309
side effects for spirulina correlation

1295
00:57:32,358 --> 00:57:36,250
does not equal causation but the

1296
00:57:34,309 --> 00:57:39,259
similarities are interesting nonetheless

1297
00:57:36,250 --> 00:57:41,389

for more information and references from

1298

00:57:39,260 --> 00:57:44,119
today's story please head to the

1299

00:57:41,389 --> 00:57:46,079
sceptics owners blog at skeptic zone

1300

00:57:44,119 --> 00:57:48,150
wordpress com

1301

00:57:46,079 --> 00:58:00,509
and until next time this has been dr.

1302

00:57:48,150 --> 00:58:11,309
rachey reports join us now for drinking

1303

00:58:00,510 --> 00:58:13,350
skeptically in the think tank this is

1304

00:58:11,309 --> 00:58:15,570
Stefan music really loud I which one the

1305

00:58:13,349 --> 00:58:21,779
other bag dude that's our agreement sort

1306

00:58:15,570 --> 00:58:25,710
of our step and we love your music what

1307

00:58:21,780 --> 00:58:27,180
a great theme song that is thank you for

1308

00:58:25,710 --> 00:58:28,650
riding with the theme song for the think

1309

00:58:27,179 --> 00:58:30,809
tanks definitely it was no problem at

1310

00:58:28,650 --> 00:58:32,940
all and thank you for being here in the

1311

00:58:30,809 --> 00:58:35,279
thing dang it takes for having me sad to

1312
00:58:32,940 --> 00:58:37,260
me it is it's why you're here and such a

1313
00:58:35,280 --> 00:58:40,470
big group as well we have about 14

1314
00:58:37,260 --> 00:58:42,840
people in each other what feels like 40

1315
00:58:40,469 --> 00:58:45,119
you joining Stefan joining Stephanie

1316
00:58:42,840 --> 00:58:47,309
assessments of course dr. AG hi dr. a

1317
00:58:45,119 --> 00:58:50,339
team hi dr. Richard how are you dr. rich

1318
00:58:47,309 --> 00:58:54,989
and I like that dr. Iran hello professor

1319
00:58:50,340 --> 00:58:57,240
richard you're being upgraded I am we

1320
00:58:54,989 --> 00:59:04,529
have what's another great title we have

1321
00:58:57,239 --> 00:59:06,299
a name Diana time hi wait Sarah today we

1322
00:59:04,530 --> 00:59:07,620
have a drunken mad men whose just

1323
00:59:06,300 --> 00:59:09,450
wandered off so the Most Reverend

1324
00:59:07,619 --> 00:59:12,210
drunken lat minh thank you very the most

1325
00:59:09,449 --> 00:59:14,730
reverent drunken madman the most rebel

1326
00:59:12,210 --> 00:59:18,900
angel and Joe what are you chief chief

1327
00:59:14,730 --> 00:59:22,289
Joe chief not each other at any moment

1328
00:59:18,900 --> 00:59:24,750
now of course Dave the happy singer will

1329
00:59:22,289 --> 00:59:26,940
be joining us we're just waiting for him

1330
00:59:24,750 --> 00:59:28,530
to arrive and I might have to slip away

1331
00:59:26,940 --> 00:59:30,179
and actually sign him into the tub but

1332
00:59:28,530 --> 00:59:32,280
let's get stuck straight into the think

1333
00:59:30,179 --> 00:59:33,389
tank while we're waiting for David we're

1334
00:59:32,280 --> 00:59:34,920
going to get to a very important issue

1335
00:59:33,389 --> 00:59:38,489
in a moment concerning our dear friend

1336
00:59:34,920 --> 00:59:41,159
dr. H E but Joe I noticed you have come

1337
00:59:38,489 --> 00:59:45,809
well prepared tonight with pages of

1338
00:59:41,159 --> 00:59:47,289
highlighted text come on pages upon

1339
00:59:45,809 --> 00:59:49,360
pages pages of homepage

1340

00:59:47,289 --> 00:59:51,940
oh I've just been doing my usual news

1341
00:59:49,360 --> 00:59:54,280
scanning um I think it was the last

1342
00:59:51,940 --> 00:59:56,470
thing tank when um we sort of we were

1343
00:59:54,280 --> 00:59:59,800
just starting to hear about a couple in

1344
00:59:56,469 --> 01:00:05,769
Pakistan who had killed their four month

1345
00:59:59,800 --> 01:00:07,080
old baby girl because a faith healer had

1346
01:00:05,769 --> 01:00:09,880
told them that it will make them wealthy

1347
01:00:07,079 --> 01:00:11,440
we talked about that very briefly we

1348
01:00:09,880 --> 01:00:12,760
haven't we didn't we didn't really hear

1349
01:00:11,440 --> 01:00:14,980
much about it all and in fact we don't

1350
01:00:12,760 --> 01:00:19,300
really know much more about it now but I

1351
01:00:14,980 --> 01:00:22,809
came across an article today from a

1352
01:00:19,300 --> 01:00:25,000
newspaper in the region talking about

1353
01:00:22,809 --> 01:00:27,000
how these faith healers in Pakistan are

1354
01:00:25,000 --> 01:00:28,869

becoming more and more prominent

1355

01:00:27,000 --> 01:00:31,989

apparently a lot of them have been

1356

01:00:28,869 --> 01:00:34,239

around for hundreds of years as part of

1357

01:00:31,989 --> 01:00:36,429

the religion in in the region but that

1358

01:00:34,239 --> 01:00:41,529

now there are which is kind of amusing

1359

01:00:36,429 --> 01:00:45,369

fake faith healers who are take a fake

1360

01:00:41,530 --> 01:00:48,010

faith hill which is opposing the real

1361

01:00:45,369 --> 01:00:50,730

ones I'm to say they take money from

1362

01:00:48,010 --> 01:00:50,730

skeptic

1363

01:00:52,460 --> 01:01:07,320

hello this is a riot in case anyone are

1364

01:01:04,800 --> 01:01:09,420

you doing baby awesome who's this guy

1365

01:01:07,320 --> 01:01:13,289

that just turned up never said to the

1366

01:01:09,420 --> 01:01:15,809

big father I think he's going to have

1367

01:01:13,289 --> 01:01:17,429

something to say hello guys have you not

1368

01:01:15,809 --> 01:01:20,549

met Jasmine this is our purple Faye from

1369
01:01:17,429 --> 01:01:22,619
Twitter hello Dave why don't you take it

1370
01:01:20,550 --> 01:01:25,620
up you up there next to a doctor Iran

1371
01:01:22,619 --> 01:01:32,130
and we're just listening to it Joan oh

1372
01:01:25,619 --> 01:01:34,019
you were calling already yes actually

1373
01:01:32,130 --> 01:01:36,690
just before we kick in I've got a little

1374
01:01:34,019 --> 01:01:39,989
present for them to mark the return of

1375
01:01:36,690 --> 01:01:43,110
Dave the hab using a big pharma for you

1376
01:01:39,989 --> 01:01:48,089
from ceramics are you kidding yeah oh

1377
01:01:43,110 --> 01:01:49,950
wow I like you I recently Amy the time

1378
01:01:48,090 --> 01:01:53,820
saves lives and you've got one with an a

1379
01:01:49,949 --> 01:01:56,519
is sort of a oh yeah it isn't there you

1380
01:01:53,820 --> 01:01:59,309
go oh wow thank you so great to have

1381
01:01:56,519 --> 01:02:01,110
Dave back Joe where were we yes so

1382
01:01:59,309 --> 01:02:03,539
anyway apparently these faith healers

1383
01:02:01,110 --> 01:02:06,329
who in Pakistan are called peers they

1384
01:02:03,539 --> 01:02:08,670
are becoming more and more prominent and

1385
01:02:06,329 --> 01:02:10,469
are they take advantage of the

1386
01:02:08,670 --> 01:02:13,860
population who up in many areas are

1387
01:02:10,469 --> 01:02:15,449
illiterate and and very poor and the

1388
01:02:13,860 --> 01:02:18,390
particular case that they they talked

1389
01:02:15,449 --> 01:02:22,289
about here was of a young man who who as

1390
01:02:18,389 --> 01:02:23,940
a child had epilepsy and his family took

1391
01:02:22,289 --> 01:02:26,460
him to see various faith healers and

1392
01:02:23,940 --> 01:02:28,769
he's actually all right he hasn't died

1393
01:02:26,460 --> 01:02:31,079
nothing has happened to him as yet but

1394
01:02:28,769 --> 01:02:33,659
at the behest of this faith healer he

1395
01:02:31,079 --> 01:02:35,849
was ordered to to go back to his village

1396
01:02:33,659 --> 01:02:39,539
and poise parents to bury him in a grave

1397

01:02:35,849 --> 01:02:41,429
for 41 hours and after the 41 hours the

1398
01:02:39,539 --> 01:02:44,009
parents were to dig a little hole in the

1399
01:02:41,429 --> 01:02:45,629
ground put a blade of grass in and if

1400
01:02:44,010 --> 01:02:48,090
the blade of grass move they should then

1401
01:02:45,630 --> 01:02:50,970
dig him up again oh so they all SAT

1402
01:02:48,090 --> 01:02:52,740
around the grave for 41 hours and then

1403
01:02:50,969 --> 01:02:54,899
pop the blade of grass in the blade of

1404
01:02:52,739 --> 01:02:57,989
grass moved and they dug him up again

1405
01:02:54,900 --> 01:03:00,510
thankfully thankfully thankfully he was

1406
01:02:57,989 --> 01:03:04,199
fine but apparently this is really a

1407
01:03:00,510 --> 01:03:06,240
huge problem in these areas and pretty

1408
01:03:04,199 --> 01:03:09,599
creative you want to give him that it's

1409
01:03:06,239 --> 01:03:10,769
really it's a pretty normal idea but you

1410
01:03:09,599 --> 01:03:13,619
know this is the sort of situation

1411
01:03:10,769 --> 01:03:16,949

according to the family the sky is now

1412

01:03:13,619 --> 01:03:20,699

fine he's no longer having fits but you

1413

01:03:16,949 --> 01:03:23,669

know but it sounds like a sort of

1414

01:03:20,699 --> 01:03:25,859

situation where perhaps it's a someone

1415

01:03:23,670 --> 01:03:28,559

who maybe had a childhood epilepsy and

1416

01:03:25,860 --> 01:03:31,410

as they've gotten older it's subsided

1417

01:03:28,559 --> 01:03:34,049

but they are seeing that he's now been

1418

01:03:31,409 --> 01:03:36,149

to the faith healer and I think it's

1419

01:03:34,050 --> 01:03:37,710

anything to do with being buried alive I

1420

01:03:36,150 --> 01:03:40,950

don't do you want anything to do with

1421

01:03:37,710 --> 01:03:43,260

that I'd have a fit if I was buried

1422

01:03:40,949 --> 01:03:45,509

alive for 40 whatever everyone again

1423

01:03:43,260 --> 01:03:47,130

that's visual these are in these

1424

01:03:45,510 --> 01:03:50,670

populations where people have no money

1425

01:03:47,130 --> 01:03:53,610

and no access to healthcare they are so

1426
01:03:50,670 --> 01:03:54,990
many people don't this they are they're

1427
01:03:53,610 --> 01:03:58,289
not actually necessarily taking money

1428
01:03:54,989 --> 01:04:00,239
from them this kid went to work for this

1429
01:03:58,289 --> 01:04:02,849
mountain and a lot of them are using

1430
01:04:00,239 --> 01:04:04,469
these people as sort of as labor they

1431
01:04:02,849 --> 01:04:06,329
get thousands of followers and they

1432
01:04:04,469 --> 01:04:10,169
actually provide them with free labor or

1433
01:04:06,329 --> 01:04:12,059
twin boys all sorts that's uh that's a

1434
01:04:10,170 --> 01:04:14,909
quite a scary story to start us off with

1435
01:04:12,059 --> 01:04:16,409
Joe gee thanks for that yes yes I saw

1436
01:04:14,909 --> 01:04:20,159
will get to write in your dad will get

1437
01:04:16,409 --> 01:04:21,539
to you if I'm sorry but let's let's cut

1438
01:04:20,159 --> 01:04:23,609
to the chase because I know a lot of our

1439
01:04:21,539 --> 01:04:25,529
listeners and who heaven knows what the

1440
01:04:23,610 --> 01:04:27,120
story will be when this by the time the

1441
01:04:25,530 --> 01:04:30,360
show comes out because we're recording

1442
01:04:27,119 --> 01:04:34,269
this on Wednesday and dr. rate you would

1443
01:04:30,360 --> 01:04:36,970
you like to summarize the story for us

1444
01:04:34,269 --> 01:04:38,699
look it's really hard to summarize it

1445
01:04:36,969 --> 01:04:44,889
because I've spent the last three days

1446
01:04:38,699 --> 01:04:47,079
getting abused insulted had my

1447
01:04:44,889 --> 01:04:50,369
qualifications questioned in public

1448
01:04:47,079 --> 01:04:53,319
forums all over the internet because of

1449
01:04:50,369 --> 01:04:56,440
what is known as the Twitter oskins

1450
01:04:53,320 --> 01:04:59,680
which is the shorty awards now I'd never

1451
01:04:56,440 --> 01:05:01,809
heard of the shorty awards until about

1452
01:04:59,679 --> 01:05:03,759
three weeks ago anybody heard of the

1453
01:05:01,809 --> 01:05:06,279
shorty live ID followed them last year

1454

01:05:03,760 --> 01:05:08,140
yeah this is the 2nd annual one so it is

1455
01:05:06,280 --> 01:05:09,750
new last year across Twitter was a lot

1456
01:05:08,139 --> 01:05:12,129
smaller this time last year yeah yeah

1457
01:05:09,750 --> 01:05:13,239
this is the second time it's real but

1458
01:05:12,130 --> 01:05:17,700
it's been a lot more interesting this

1459
01:05:13,239 --> 01:05:21,250
time first I heard of it was somebody

1460
01:05:17,699 --> 01:05:22,689
voted me about two weeks ago and I so I

1461
01:05:21,250 --> 01:05:24,280
went had a look at the website because I

1462
01:05:22,690 --> 01:05:28,210
thought what is this and then I saw that

1463
01:05:24,280 --> 01:05:30,010
a natural health person by the name of

1464
01:05:28,210 --> 01:05:33,960
Mike Adams who runs the website natural

1465
01:05:30,010 --> 01:05:36,730
news and a guy by the name of dr.

1466
01:05:33,960 --> 01:05:39,970
Majora's Joe McCollough sorry I've

1467
01:05:36,730 --> 01:05:41,500
blocked him out they were coming in the

1468
01:05:39,969 --> 01:05:44,309

first see second place of the health

1469

01:05:41,500 --> 01:05:46,690

category and so I'm tweeted this and a

1470

01:05:44,309 --> 01:05:48,130

few people and some of them are here and

1471

01:05:46,690 --> 01:05:51,579

one of them is sitting right other than

1472

01:05:48,130 --> 01:05:54,640

me boy drunken madman Jason Brown

1473

01:05:51,579 --> 01:05:59,199

decided this couldn't happen that these

1474

01:05:54,639 --> 01:06:01,690

two old men people should not win the

1475

01:05:59,199 --> 01:06:03,489

health category in the shorties and so

1476

01:06:01,690 --> 01:06:05,500

he went about formulating a campaign and

1477

01:06:03,489 --> 01:06:07,750

maybe you want to take up from here

1478

01:06:05,500 --> 01:06:09,610

doing well it was pretty simple I just

1479

01:06:07,750 --> 01:06:11,170

tweeted back to dr. HC after she

1480

01:06:09,610 --> 01:06:13,599

mentioned these two guys are winning and

1481

01:06:11,170 --> 01:06:15,700

said okay we can fix that and

1482

01:06:13,599 --> 01:06:17,589

immediately voted and then immediately

1483
01:06:15,699 --> 01:06:19,029
asked my followers to vote and then some

1484
01:06:17,590 --> 01:06:21,039
of my followers after their followers to

1485
01:06:19,030 --> 01:06:22,960
vote and some of their followers ask

1486
01:06:21,039 --> 01:06:25,329
their followers to vote and before too

1487
01:06:22,960 --> 01:06:27,280
long dr. rate she was in the lead with a

1488
01:06:25,329 --> 01:06:32,039
healthy margin of about 400 votes yeah I

1489
01:06:27,280 --> 01:06:32,040
think typically like is working too low

1490
01:06:32,829 --> 01:06:37,759
Martin timbale of chromic who runs

1491
01:06:35,570 --> 01:06:40,100
what's the harm but no it wasn't nothing

1492
01:06:37,760 --> 01:06:43,190
virus tournament badass drama phil plait

1493
01:06:40,099 --> 01:06:45,949
i'm kiza my own eyes of course piggy

1494
01:06:43,190 --> 01:06:48,950
yeah and we just went well but even

1495
01:06:45,949 --> 01:06:51,529
funnier than what happened after Rachel

1496
01:06:48,949 --> 01:06:55,269
went to off number 10 hilarity ensued

1497
01:06:51,530 --> 01:06:58,310
yeah maybe you guys wanna talk about it

1498
01:06:55,269 --> 01:07:01,789
come on I don't want to say anything

1499
01:06:58,309 --> 01:07:04,099
libelous utility best huh well no I can

1500
01:07:01,789 --> 01:07:07,159
understand I can understand well Mike

1501
01:07:04,099 --> 01:07:09,949
Adams suddenly found himself without any

1502
01:07:07,159 --> 01:07:12,829
votes at all because his nominations

1503
01:07:09,949 --> 01:07:14,269
were all stripped from him oh I think we

1504
01:07:12,829 --> 01:07:16,039
should it's important to point out that

1505
01:07:14,269 --> 01:07:18,409
this has nothing to do with ratio with

1506
01:07:16,039 --> 01:07:19,670
anybody else this is a shorty yeah well

1507
01:07:18,409 --> 01:07:22,429
the people who organized the shorty

1508
01:07:19,670 --> 01:07:24,079
awards disqualified him because of a lot

1509
01:07:22,429 --> 01:07:25,909
of his votes came from what they

1510
01:07:24,079 --> 01:07:27,909
considered to be invalid accounts family

1511

01:07:25,909 --> 01:07:30,259
because they were accounts created

1512
01:07:27,909 --> 01:07:32,809
especially for the purpose faceplate it

1513
01:07:30,260 --> 01:07:34,430
was big just created and then made one

1514
01:07:32,809 --> 01:07:35,960
tweet and that's it and there's no

1515
01:07:34,429 --> 01:07:38,029
servia to invalidate the bites they

1516
01:07:35,960 --> 01:07:39,949
actually disqualified him because there

1517
01:07:38,030 --> 01:07:41,600
because a lot too large a proportion of

1518
01:07:39,949 --> 01:07:43,939
his total there was a really large

1519
01:07:41,599 --> 01:07:46,069
proportion for Adams and they weren't

1520
01:07:43,940 --> 01:07:47,720
just making one tweet for Adams voting

1521
01:07:46,070 --> 01:07:51,590
for him they were making tweets voting

1522
01:07:47,719 --> 01:07:53,329
for Ritchie in quackery so yeah yeah i

1523
01:07:51,590 --> 01:07:55,550
thought i must say they were also making

1524
01:07:53,329 --> 01:07:57,590
votes for me in health and then they

1525
01:07:55,550 --> 01:07:59,780

condemned i'm making the because our an

1526

01:07:57,590 --> 01:08:02,780
offensive thing which still is a

1527

01:07:59,780 --> 01:08:05,180
legitimate vote it was really it kind of

1528

01:08:02,780 --> 01:08:07,070
like it's kind of like when bronwyn

1529

01:08:05,179 --> 01:08:09,019
hancock went and signed to stop the AVM

1530

01:08:07,070 --> 01:08:10,580
petition and said i don't agree with

1531

01:08:09,019 --> 01:08:12,679
this and i don't think we should have

1532

01:08:10,579 --> 01:08:14,719
his petition but she signed the petition

1533

01:08:12,679 --> 01:08:16,298
she's still signed it that counts as a

1534

01:08:14,719 --> 01:08:17,948
you know

1535

01:08:16,298 --> 01:08:27,338
I believe she signed the petition

1536

01:08:17,948 --> 01:08:30,548
against a but it's been a little bit

1537

01:08:27,338 --> 01:08:32,408
like that this is this that's the events

1538

01:08:30,548 --> 01:08:33,658
unfolded in the last couple of days it's

1539

01:08:32,408 --> 01:08:36,269
been a bit like that hasn't it been

1540
01:08:33,658 --> 01:08:39,368
amazing and it all got a bit hysterical

1541
01:08:36,270 --> 01:08:40,960
amazing posts fine by Adams and Nicole

1542
01:08:39,368 --> 01:08:42,639
ago about how much they don't care about

1543
01:08:40,960 --> 01:08:45,130
this award and then crying their eyes

1544
01:08:42,639 --> 01:08:47,309
out and threat me everything to sue the

1545
01:08:45,130 --> 01:08:51,279
surety of calling to Allah knows a

1546
01:08:47,309 --> 01:08:53,289
little-known skeptics out there know

1547
01:08:51,279 --> 01:08:55,329
that I mean that's really it the gist of

1548
01:08:53,289 --> 01:08:57,759
it really is yeah um and this all

1549
01:08:55,328 --> 01:09:01,599
resulted in yesterday Nicole are posting

1550
01:08:57,759 --> 01:09:04,048
on his Facebook page a really nasty post

1551
01:09:01,599 --> 01:09:07,150
saying that I was a little-known

1552
01:09:04,048 --> 01:09:10,328
overweight non-physician from Australia

1553
01:09:07,149 --> 01:09:13,210
she'll I was also a shield is also a big

1554
01:09:10,328 --> 01:09:17,500
pharma whore I've got check cleared

1555
01:09:13,210 --> 01:09:19,000
every are you put on the post before a

1556
01:09:17,500 --> 01:09:21,189
Christmas but i don't know maybe go

1557
01:09:19,000 --> 01:09:23,229
astray it's the big farmer the man we

1558
01:09:21,189 --> 01:09:30,428
blame for all this yeah I said if I

1559
01:09:23,229 --> 01:09:32,048
carry a crow from my County but um the

1560
01:09:30,429 --> 01:09:35,529
interesting thing about that was was

1561
01:09:32,048 --> 01:09:38,289
eventually his followers started turning

1562
01:09:35,529 --> 01:09:39,940
on him because of that in particular

1563
01:09:38,289 --> 01:09:42,069
because he made the comment about weight

1564
01:09:39,939 --> 01:09:44,948
because he's got sixty three thousand

1565
01:09:42,069 --> 01:09:46,690
fans on Facebook and I betcha some of

1566
01:09:44,948 --> 01:09:48,969
the facility those chances are i

1567
01:09:46,689 --> 01:09:50,500
promises am I trying to lose weight I've

1568

01:09:48,969 --> 01:09:52,989
seen some of their profile pictures

1569
01:09:50,500 --> 01:09:55,929
right and so they weren't particularly

1570
01:09:52,988 --> 01:09:58,029
impressed with what he wrote and said

1571
01:09:55,929 --> 01:09:59,770
and and there was a hilarious one that

1572
01:09:58,029 --> 01:10:02,170
you came across I think where someone

1573
01:09:59,770 --> 01:10:04,239
suggested that someone had hacked into

1574
01:10:02,170 --> 01:10:05,980
his computer all that was brilliant yeah

1575
01:10:04,238 --> 01:10:07,959
my cavender's computer had been hacked

1576
01:10:05,979 --> 01:10:11,109
clearly because this was so of character

1577
01:10:07,960 --> 01:10:12,219
for my god it must have been hacking so

1578
01:10:11,109 --> 01:10:13,509
you know immediately

1579
01:10:12,219 --> 01:10:16,149
everybody disturb people up in the

1580
01:10:13,510 --> 01:10:17,889
meeting like you do yeah he and the

1581
01:10:16,149 --> 01:10:24,698
other McCollough of sitting in a room

1582
01:10:17,889 --> 01:10:25,779

somewhere going okay we've got it we're

1583

01:10:24,698 --> 01:10:29,288
going to tell her thanks to Steve

1584

01:10:25,779 --> 01:10:32,529
novella rebecca watson to iraq at

1585

01:10:29,288 --> 01:10:35,439
respected on spec for insolence pv myers

1586

01:10:32,529 --> 01:10:41,978
Phil Plait felony it wasn't yet the

1587

01:10:35,439 --> 01:10:44,049
international dr AG appreciation a guy

1588

01:10:41,979 --> 01:10:45,369
by the name of HJ and I can't remember

1589

01:10:44,050 --> 01:10:49,599
the name of his blog now because it's

1590

01:10:45,368 --> 01:10:51,429
though he had happy pancakes or

1591

01:10:49,599 --> 01:10:52,989
something yeah yeah do you have a heavy

1592

01:10:51,429 --> 01:10:54,609
tanks or something have you seen you

1593

01:10:52,988 --> 01:10:58,779
ever seen Mick oldest homeopathic cure

1594

01:10:54,609 --> 01:11:00,368
for baldness I just don't know who this

1595

01:10:58,779 --> 01:11:01,689
guy is you know until last week I

1596

01:11:00,368 --> 01:11:08,589
thought I really got a mythical half

1597
01:11:01,689 --> 01:11:11,259
drink half fish agree no I put in that

1598
01:11:08,590 --> 01:11:13,150
by strong Marjorie well this one at

1599
01:11:11,260 --> 01:11:14,860
least if Allah winsome by the time this

1600
01:11:13,149 --> 01:11:17,098
show comes out who knows what the story

1601
01:11:14,859 --> 01:11:19,839
will be because mikkola in the last

1602
01:11:17,099 --> 01:11:22,630
three or four hours as we record

1603
01:11:19,840 --> 01:11:25,328
suddenly his votes left by over a

1604
01:11:22,630 --> 01:11:27,819
thousand they doubled actually we had

1605
01:11:25,328 --> 01:11:30,009
about 600 and I went to 1300 days then

1606
01:11:27,819 --> 01:11:32,649
up to 2,600 something last time I

1607
01:11:30,010 --> 01:11:33,969
checked which really very latest just as

1608
01:11:32,649 --> 01:11:35,198
really caught that I heard on twitter is

1609
01:11:33,969 --> 01:11:37,779
that this flood of votes room has

1610
01:11:35,198 --> 01:11:38,728
suddenly slowed down and we've got a

1611
01:11:37,779 --> 01:11:40,448
couple of people who are kind of

1612
01:11:38,729 --> 01:11:41,920
downloading the data from Twitter

1613
01:11:40,448 --> 01:11:43,328
through their search api so that they

1614
01:11:41,920 --> 01:11:44,769
can actually all the our selves without

1615
01:11:43,328 --> 01:11:46,988
relying on Shorty's water eventually

1616
01:11:44,769 --> 01:11:48,110
trace this by yourself to a certain

1617
01:11:46,988 --> 01:11:50,299
extent and

1618
01:11:48,109 --> 01:11:51,829
the first impressions are that there are

1619
01:11:50,300 --> 01:11:53,119
a lot of invalid votes but you know

1620
01:11:51,829 --> 01:11:55,579
let's get the data in and make sure that

1621
01:11:53,118 --> 01:11:57,799
we're writing message we're putting out

1622
01:11:55,579 --> 01:11:59,988
is listeners if you still have the

1623
01:11:57,800 --> 01:12:02,570
opportunity only if you have a valid

1624
01:11:59,988 --> 01:12:04,939
Twitter account and only if you really

1625

01:12:02,569 --> 01:12:07,250
feel you want to you can nominate dr. H

1626
01:12:04,939 --> 01:12:10,638
E and help I'll vote it up to AG or

1627
01:12:07,250 --> 01:12:12,439
whatever it is I should all baby I have

1628
01:12:10,639 --> 01:12:13,940
just a daytime job soon I don't have a

1629
01:12:12,439 --> 01:12:17,299
lot of munching distance and this but

1630
01:12:13,939 --> 01:12:21,500
perhaps you could use your big farmer

1631
01:12:17,300 --> 01:12:23,300
money to fund a big campaign to do you

1632
01:12:21,500 --> 01:12:24,979
know what to win this look do you know

1633
01:12:23,300 --> 01:12:26,719
who it is that really you know

1634
01:12:24,979 --> 01:12:29,059
prestigious award you know there are any

1635
01:12:26,719 --> 01:12:33,649
of this I get money from a multivitamin

1636
01:12:29,060 --> 01:12:35,510
company and I'm not kidding you I do not

1637
01:12:33,649 --> 01:12:38,479
get money from Big Pharma but i do get

1638
01:12:35,510 --> 01:12:40,429
money from a health food company within

1639
01:12:38,479 --> 01:12:42,529

it there you go whatever happens I mean

1640

01:12:40,429 --> 01:12:44,539

this this could go any way at the moment

1641

01:12:42,529 --> 01:12:47,238

I mean things are literally on for Moses

1642

01:12:44,539 --> 01:12:49,189

feet but I mean it it is just a Twitter

1643

01:12:47,238 --> 01:12:50,658

popularity concert yeah but I think the

1644

01:12:49,189 --> 01:12:52,638

most of the most amusing thing to take

1645

01:12:50,658 --> 01:12:54,469

away is but for me at least is how

1646

01:12:52,639 --> 01:12:56,810

rappelled Mike Adams and children like

1647

01:12:54,469 --> 01:12:58,149

cholera beyond seriously yes I mean

1648

01:12:56,810 --> 01:13:01,969

they've been posting the most

1649

01:12:58,149 --> 01:13:03,948

unbelievable vitriol and bowel don't

1650

01:13:01,969 --> 01:13:07,670

like Adams rant about skeptics is a

1651

01:13:03,948 --> 01:13:09,710

classic he's unbelievable the last days

1652

01:13:07,670 --> 01:13:12,050

that random of Mike Adams and the

1653

01:13:09,710 --> 01:13:13,340

subsequent blogs that came out of it

1654
01:13:12,050 --> 01:13:15,260
have provided me with some of the best

1655
01:13:13,340 --> 01:13:18,380
the greatest amusement I've had in days

1656
01:13:15,260 --> 01:13:20,060
Steve Allen just came upon an alright as

1657
01:13:18,380 --> 01:13:21,679
well and also please II but but I agree

1658
01:13:20,060 --> 01:13:23,300
with you and and the thing that I find

1659
01:13:21,679 --> 01:13:25,670
really interesting about that Dave is

1660
01:13:23,300 --> 01:13:29,150
that he insists that we're just a bunch

1661
01:13:25,670 --> 01:13:31,880
of unknown skeptics yes we have rattled

1662
01:13:29,149 --> 01:13:34,698
the cage of Joe mikkola and Mike Adams

1663
01:13:31,880 --> 01:13:37,520
big old men being the ultimate big homie

1664
01:13:34,698 --> 01:13:41,178
homie a huge amounts of money the car me

1665
01:13:37,520 --> 01:13:43,940
up yeah brought into huge amounts of

1666
01:13:41,179 --> 01:13:45,618
money and it's just been a bunch of us

1667
01:13:43,939 --> 01:13:47,419
that have got together and we've managed

1668
01:13:45,618 --> 01:13:49,759
to make them so angry that their hand

1669
01:13:47,420 --> 01:13:51,440
flapping and foot stamping and writing

1670
01:13:49,760 --> 01:13:53,600
posts as fast as I possibly can

1671
01:13:51,439 --> 01:13:56,419
McCullers emailed two million

1672
01:13:53,600 --> 01:14:00,410
in the last day yeah according to 40

1673
01:13:56,420 --> 01:14:01,460
years yeah yeah it's called stomach well

1674
01:14:00,409 --> 01:14:03,139
actually if people want to know a little

1675
01:14:01,460 --> 01:14:07,310
bit more about the background or from

1676
01:14:03,140 --> 01:14:09,350
the company that is my cat emissive you

1677
01:14:07,310 --> 01:14:11,539
know it's true the publishing yeah truth

1678
01:14:09,350 --> 01:14:13,460
publishing apparently I haven't hundreds

1679
01:14:11,539 --> 01:14:17,090
Emperor but it's a that's not really

1680
01:14:13,460 --> 01:14:18,680
saying is it yeah it is it's a company

1681
01:14:17,090 --> 01:14:22,329
registered in China headquartered in

1682

01:14:18,680 --> 01:14:24,350
Ecuador which does mass email marketing

1683
01:14:22,329 --> 01:14:28,039
another word for which is spam

1684
01:14:24,350 --> 01:14:29,630
essentially he's kind of made it

1685
01:14:28,039 --> 01:14:31,250
legitimate because these days you know

1686
01:14:29,630 --> 01:14:34,159
that the filthy spam stuff gets you off

1687
01:14:31,250 --> 01:14:36,979
the internet pretty quick but um yeah is

1688
01:14:34,159 --> 01:14:39,680
big business is really in sending stuff

1689
01:14:36,979 --> 01:14:42,049
out to punters and is it I street costa

1690
01:14:39,680 --> 01:14:44,090
rica he's in ecuador he doesn't know

1691
01:14:42,050 --> 01:14:45,289
where every article on his site has a

1692
01:14:44,090 --> 01:14:46,789
little link at the bottom if you'd like

1693
01:14:45,289 --> 01:14:49,460
to continue reading this article please

1694
01:14:46,789 --> 01:14:53,239
insert your email every single one so

1695
01:14:49,460 --> 01:14:54,560
I'm it's a little and doesn't he doesn't

1696
01:14:53,239 --> 01:14:56,269

it's one of his other companies have

1697

01:14:54,560 --> 01:14:58,310

something to do with big pharma as well

1698

01:14:56,270 --> 01:15:00,380

cuz some yes one of his marketing

1699

01:14:58,310 --> 01:15:03,140

companies is fully legitimate actually

1700

01:15:00,380 --> 01:15:06,529

and has been used by let me think where

1701

01:15:03,140 --> 01:15:08,869

Bayer I think I think it is the services

1702

01:15:06,529 --> 01:15:11,840

like the party isn't really get along

1703

01:15:08,869 --> 01:15:13,069

yeah thing you know that's from a blog

1704

01:15:11,840 --> 01:15:15,199

post that's going to be double-checked

1705

01:15:13,069 --> 01:15:16,880

but that seems to be the long and short

1706

01:15:15,199 --> 01:15:18,439

event well I saw someone else that

1707

01:15:16,880 --> 01:15:20,960

blogged about what you blogged about as

1708

01:15:18,439 --> 01:15:22,369

well so what's so interesting about this

1709

01:15:20,960 --> 01:15:24,050

is that this little bunch of skeptics

1710

01:15:22,369 --> 01:15:26,420

have dug all this stuff up and and I've

1711
01:15:24,050 --> 01:15:28,820
had so many people say they've never

1712
01:15:26,420 --> 01:15:30,440
heard of him as you said Dave and also

1713
01:15:28,819 --> 01:15:32,989
no one's ever heard of me and now they

1714
01:15:30,439 --> 01:15:34,939
have and so the thing is and your tummy

1715
01:15:32,989 --> 01:15:37,909
on your skeptics book of poop just go on

1716
01:15:34,939 --> 01:15:40,219
out of control but it's not exactly the

1717
01:15:37,909 --> 01:15:43,099
Streisand really with mcollough and

1718
01:15:40,220 --> 01:15:46,579
Adam visit but it oh it's a little bit

1719
01:15:43,100 --> 01:15:49,130
screaming there's a lot of skepticism

1720
01:15:46,579 --> 01:15:51,289
he was I knew who McCullough was I

1721
01:15:49,130 --> 01:15:53,029
didn't know my cabins was now I know who

1722
01:15:51,289 --> 01:16:00,739
my talent is and I'm going to get lots

1723
01:15:53,029 --> 01:16:03,619
of love him really interesting in all

1724
01:16:00,739 --> 01:16:06,039
their rats and all their followers are

1725
01:16:03,619 --> 01:16:09,380
accusing us with exactly what they are

1726
01:16:06,039 --> 01:16:12,350
yeah a sheeple or they just believe what

1727
01:16:09,380 --> 01:16:16,880
they're being told or it goes on and on

1728
01:16:12,350 --> 01:16:18,770
nominating Rachel and crockery yes but

1729
01:16:16,880 --> 01:16:20,630
the other thing is only I know that a

1730
01:16:18,770 --> 01:16:21,920
few of us here I haven't i've been

1731
01:16:20,630 --> 01:16:23,930
taking a backseat because i don't want

1732
01:16:21,920 --> 01:16:25,970
to be involved because it's been as far

1733
01:16:23,930 --> 01:16:28,700
as I'm concerned it's an entity unlike

1734
01:16:25,970 --> 01:16:30,199
what they're doing but I know a few of

1735
01:16:28,699 --> 01:16:33,159
us here have been trying to post on

1736
01:16:30,199 --> 01:16:35,779
Facebook pages and on natural news and

1737
01:16:33,159 --> 01:16:37,970
what's been the result of that I've been

1738
01:16:35,779 --> 01:16:39,619
banned Hyrum and all of the skeptics

1739

01:16:37,970 --> 01:16:41,260
about the skeptics posts from the

1740
01:16:39,619 --> 01:16:44,420
natural means facebook page with deleted

1741
01:16:41,260 --> 01:16:46,850
yesterday same with McCollough no

1742
01:16:44,420 --> 01:16:48,489
collars wholesale canon of skeptical of

1743
01:16:46,850 --> 01:16:50,860
us yeah

1744
01:16:48,488 --> 01:16:54,939
which reminds you of an T Rexes doesn't

1745
01:16:50,859 --> 01:16:56,828
really know well that said is really

1746
01:16:54,939 --> 01:16:59,348
well I mean so many people when they are

1747
01:16:56,828 --> 01:17:01,359
nominating you was a quick we were

1748
01:16:59,349 --> 01:17:06,460
saying because she pushes vaccinations

1749
01:17:01,359 --> 01:17:09,038
yeah I'm good what happens again there

1750
01:17:06,460 --> 01:17:10,779
was a really nice comment on one of pjs

1751
01:17:09,038 --> 01:17:12,609
blogs today from someone who is saying

1752
01:17:10,779 --> 01:17:14,578
that there's been a lot of discussion on

1753
01:17:12,609 --> 01:17:16,868

pjs blogs and a lot of disagreement but

1754

01:17:14,578 --> 01:17:19,118

people will say I think you're wrong for

1755

01:17:16,868 --> 01:17:22,899

this reason and then cite their

1756

01:17:19,118 --> 01:17:24,939

references hello and this guy was saying

1757

01:17:22,899 --> 01:17:26,229

well I'm so glad I'm a skeptic but she's

1758

01:17:24,939 --> 01:17:27,248

come on here I can have a

1759

01:17:26,229 --> 01:17:28,928

disagreement we can have a discussion

1760

01:17:27,248 --> 01:17:30,429

about it we can agree to go away and

1761

01:17:28,929 --> 01:17:32,649

look at the evidence whereas as soon as

1762

01:17:30,429 --> 01:17:35,199

you get on any of those sites and you

1763

01:17:32,649 --> 01:17:37,268

question them you your IP address is

1764

01:17:35,198 --> 01:17:39,279

taken down in that city on today there's

1765

01:17:37,269 --> 01:17:41,829

no discussion at all you know and they

1766

01:17:39,279 --> 01:17:44,139

call us sheeple yeah any other ideas

1767

01:17:41,828 --> 01:17:46,179

that someone wants to put to them they

1768
01:17:44,139 --> 01:17:49,150
don't want to hear about it they tightly

1769
01:17:46,179 --> 01:17:50,019
controlled assignment okay hmm what an

1770
01:17:49,149 --> 01:17:57,219
interesting turn of events

1771
01:17:50,019 --> 01:18:00,039
congratulations dr. Reggie yeah I didn't

1772
01:17:57,219 --> 01:18:02,050
mean to well we are we await the next

1773
01:18:00,038 --> 01:18:03,340
few days with great interest everybody

1774
01:18:02,050 --> 01:18:06,519
in but of course by the time this show

1775
01:18:03,340 --> 01:18:08,019
comes out in a few days will almost and

1776
01:18:06,519 --> 01:18:13,269
more yeah but there's still time to

1777
01:18:08,019 --> 01:18:15,920
write baby now let's uh thank you dr.

1778
01:18:13,269 --> 01:18:17,690
range wow what a story what a story

1779
01:18:15,920 --> 01:18:20,840
and now for another change of pace we

1780
01:18:17,689 --> 01:18:23,539
flip over dude Reverend dr. Iran

1781
01:18:20,840 --> 01:18:25,039
whatever you are Reverend is actually

1782
01:18:23,539 --> 01:18:29,659
good for this one because i want to

1783
01:18:25,039 --> 01:18:32,359
quote Reverend Eric hill from the st.

1784
01:18:29,659 --> 01:18:35,689
Peters and Paul Saints Peter and Paul

1785
01:18:32,359 --> 01:18:39,829
Catholic Church in dr. Georgia Georgia

1786
01:18:35,689 --> 01:18:42,589
in the United States he said this this

1787
01:18:39,829 --> 01:18:44,899
is from historians on CNN said given all

1788
01:18:42,590 --> 01:18:46,550
their country and people have been

1789
01:18:44,899 --> 01:18:49,009
through between political upheavals

1790
01:18:46,550 --> 01:18:52,039
human rights abuses hurricanes abject

1791
01:18:49,010 --> 01:18:54,190
poverty and last week's earthquake I

1792
01:18:52,039 --> 01:18:57,109
think it's about us in two weeks ago

1793
01:18:54,189 --> 01:18:59,479
says this the patients were constantly

1794
01:18:57,109 --> 01:19:04,159
questioning their faith they would all

1795
01:18:59,479 --> 01:19:08,750
be atheists and I say well they should

1796

01:19:04,159 --> 01:19:11,840
be shouldn't they it's ridiculous that

1797
01:19:08,750 --> 01:19:14,179
they are not all of this is thrown at

1798
01:19:11,840 --> 01:19:16,670
them but the thing is he was he was

1799
01:19:14,179 --> 01:19:18,020
saying that as kind of a compliment you

1800
01:19:16,670 --> 01:19:19,489
know they're not atheist because they're

1801
01:19:18,020 --> 01:19:21,110
not questioning their faith their just

1802
01:19:19,488 --> 01:19:23,119
accepting things at face value and God

1803
01:19:21,109 --> 01:19:25,039
keeps throwing at them so you do

1804
01:19:23,119 --> 01:19:29,899
have to be that I know they made a deal

1805
01:19:25,039 --> 01:19:33,170
with the devil was in Thomson all right

1806
01:19:29,899 --> 01:19:35,829
okay the devil team is the time so I

1807
01:19:33,170 --> 01:19:38,300
just I mean this is really suitable for

1808
01:19:35,829 --> 01:19:40,460
religious moron of the week on the

1809
01:19:38,300 --> 01:19:42,529
geologic podcast just just taking I'm

1810
01:19:40,460 --> 01:19:43,789

limbs may be intrigued that there's a

1811

01:19:42,529 --> 01:19:45,289

lot of background noise that you

1812

01:19:43,789 --> 01:19:47,179

normally don't have anything thank you

1813

01:19:45,289 --> 01:19:48,679

it's the old story would be thrown out

1814

01:19:47,179 --> 01:19:50,539

of our old room because our old room is

1815

01:19:48,679 --> 01:19:52,159

now a billiard room and we're now in

1816

01:19:50,539 --> 01:19:54,948

sort of the the back area of the

1817

01:19:52,159 --> 01:19:58,969

restaurant I think next time we'll try

1818

01:19:54,948 --> 01:20:02,479

to locate its offer two things going on

1819

01:19:58,969 --> 01:20:04,880

around we could pray for less people we

1820

01:20:02,479 --> 01:20:07,059

could carry on around yeah no that's

1821

01:20:04,880 --> 01:20:10,690

that's the story just amazing how people

1822

01:20:07,060 --> 01:20:13,160

see virtue in just blind faith

1823

01:20:10,689 --> 01:20:15,229

unquestioning faith in something that is

1824

01:20:13,159 --> 01:20:17,609

clearly not support

1825
01:20:15,229 --> 01:20:20,879
I've been watching some of the reports

1826
01:20:17,609 --> 01:20:22,139
and there was a woman on the news the

1827
01:20:20,880 --> 01:20:26,130
other day who said I'm waiting for Jesus

1828
01:20:22,140 --> 01:20:27,270
to come and save me it's still writing

1829
01:20:26,130 --> 01:20:29,909
you know what the funniest thing would

1830
01:20:27,270 --> 01:20:32,550
be if she were actually rescued by the

1831
01:20:29,909 --> 01:20:34,199
guys from the Israeli Defense Forces who

1832
01:20:32,550 --> 01:20:36,930
were taking people out of the rubble

1833
01:20:34,199 --> 01:20:43,069
there Holly just went down there today

1834
01:20:36,930 --> 01:20:46,140
to do touch therapy contra dances yes

1835
01:20:43,069 --> 01:20:47,699
Brian Thompson from the amateur

1836
01:20:46,140 --> 01:20:52,619
scientist Professor that he actually

1837
01:20:47,699 --> 01:20:54,000
went there to find you because there are

1838
01:20:52,619 --> 01:20:56,880
lots of cadavers there and he needs a

1839
01:20:54,000 --> 01:21:05,279
lot of here for his collection of two

1840
01:20:56,880 --> 01:21:06,600
phase i think around touched on

1841
01:21:05,279 --> 01:21:09,149
something really fundamental there

1842
01:21:06,600 --> 01:21:10,620
though that when you said that it all

1843
01:21:09,149 --> 01:21:11,729
comes down to faith and I went for a

1844
01:21:10,619 --> 01:21:13,949
curry the other night with a young earth

1845
01:21:11,729 --> 01:21:16,859
creationist pastor who's a really really

1846
01:21:13,949 --> 01:21:18,960
nice man we had a fantastic dinner and

1847
01:21:16,859 --> 01:21:21,329
we talked a lot about creation evolution

1848
01:21:18,960 --> 01:21:22,800
and fossils and about the historicity of

1849
01:21:21,329 --> 01:21:24,180
the Gospels and all that sort of thing

1850
01:21:22,800 --> 01:21:26,010
but in the end both of us agreed it all

1851
01:21:24,180 --> 01:21:27,300
comes down to bathe and I guess one of

1852
01:21:26,010 --> 01:21:29,159
the fundamental things for me as a

1853

01:21:27,300 --> 01:21:31,470
skeptical and I know not all skeptics talk

1854
01:21:29,159 --> 01:21:33,119
about religion all the time but the

1855
01:21:31,470 --> 01:21:34,710
muses skeptical it comes down to this idea

1856
01:21:33,119 --> 01:21:37,859
that faith is virtuous and I don't think

1857
01:21:34,710 --> 01:21:39,449
it is I think taking things without

1858
01:21:37,859 --> 01:21:41,579
evidence is not a virtuous thing I think

1859
01:21:39,449 --> 01:21:46,079
it in many cases it's harmful at the

1860
01:21:41,579 --> 01:21:47,760
best it's just pointless and but we seem

1861
01:21:46,079 --> 01:21:49,529
to have this idea that faith is a

1862
01:21:47,760 --> 01:21:51,289
virtuous for the virtuous thing and I'd

1863
01:21:49,529 --> 01:21:52,460
like to see that change

1864
01:21:51,289 --> 01:21:54,319
you know that make that brings up

1865
01:21:52,460 --> 01:21:57,079
another point Dave that recently came

1866
01:21:54,319 --> 01:21:59,029
out the BBC its expose the Newsnight

1867
01:21:57,079 --> 01:22:01,970

expose of those divining rods in Iraq

1868

01:21:59,029 --> 01:22:04,130

among the people took those on face

1869

01:22:01,970 --> 01:22:05,570

value Jim McCormack and I've locked

1870

01:22:04,130 --> 01:22:07,039

about this the other day so you can find

1871

01:22:05,569 --> 01:22:11,029

it on my amazing blog that's been

1872

01:22:07,039 --> 01:22:13,460

visited by lots of people now um the you

1873

01:22:11,029 --> 01:22:16,579

know there's have you heard the story so

1874

01:22:13,460 --> 01:22:18,500

basically it was sold as a plastic that

1875

01:22:16,579 --> 01:22:20,510

I've been casing it looked like a gun

1876

01:22:18,500 --> 01:22:22,909

and inside and had a sort of antenna

1877

01:22:20,510 --> 01:22:25,369

that would fling out its bomb detector

1878

01:22:22,909 --> 01:22:27,680

as a bomb detector an accord leading to

1879

01:22:25,369 --> 01:22:29,689

a another little case where they put in

1880

01:22:27,680 --> 01:22:31,400

a card with the chicken that was

1881

01:22:29,689 --> 01:22:34,399

programmed to a specific type of

1882
01:22:31,399 --> 01:22:37,399
explosive and soldiers would carry it at

1883
01:22:34,399 --> 01:22:39,349
change that they still are and move it

1884
01:22:37,399 --> 01:22:41,750
around the cars and if the Rodney it's

1885
01:22:39,350 --> 01:22:44,000
like a divining rod there was going to

1886
01:22:41,750 --> 01:22:45,619
be explosives no I saw some footage on

1887
01:22:44,000 --> 01:22:50,329
the news last night which made me just

1888
01:22:45,619 --> 01:22:51,829
gaped in disgust apparently this guy

1889
01:22:50,329 --> 01:22:54,739
who stunned them for forty thousand

1890
01:22:51,829 --> 01:22:57,079
dollars right away Oh peach and Iraq

1891
01:22:54,739 --> 01:22:59,239
spent 85 million dollars on buying them

1892
01:22:57,079 --> 01:23:01,279
they said that in order to get them to

1893
01:22:59,239 --> 01:23:03,050
operate the soldiers had to generate

1894
01:23:01,279 --> 01:23:05,420
static electricity so they had to walk

1895
01:23:03,050 --> 01:23:08,840
up and down on the ground so they are

1896
01:23:05,420 --> 01:23:10,609
standing at a checkpoint in Iraq with

1897
01:23:08,840 --> 01:23:12,829
this stupid thing with plastic with a

1898
01:23:10,609 --> 01:23:15,519
metal rod stampin up and down to

1899
01:23:12,829 --> 01:23:15,519
generate electricity

1900
01:23:15,800 --> 01:23:20,369
everyone has to look at this because

1901
01:23:18,720 --> 01:23:25,740
when you see the news not report you

1902
01:23:20,369 --> 01:23:28,800
will not believe how gullible a jackal I

1903
01:23:25,739 --> 01:23:31,229
just comprehend how any government would

1904
01:23:28,800 --> 01:23:35,310
invest that amount of money in something

1905
01:23:31,229 --> 01:23:37,259
like that without having have you read

1906
01:23:35,310 --> 01:23:41,250
the men who stare at goats oh I know I

1907
01:23:37,260 --> 01:23:43,560
know funnily enough that was what it was

1908
01:23:41,250 --> 01:23:45,449
Andy Randy asked a very good question

1909
01:23:43,560 --> 01:23:47,640
which of course was late will will be

1910

01:23:45,449 --> 01:23:49,409
left forever unanswered but the general

1911
01:23:47,640 --> 01:23:52,800
the Iraqi general was actually

1912
01:23:49,409 --> 01:23:57,680
responsible for the 485 million dollar

1913
01:23:52,800 --> 01:24:01,079
expense there he is responsible for

1914
01:23:57,680 --> 01:24:04,260
buying it and for distributing it and he

1915
01:24:01,079 --> 01:24:06,630
said when he was asked about the any

1916
01:24:04,260 --> 01:24:08,730
evidence for that this works he said I

1917
01:24:06,630 --> 01:24:11,940
know more I know more about bombs than

1918
01:24:08,729 --> 01:24:14,009
any Americans do and I know that this

1919
01:24:11,939 --> 01:24:17,819
works I don't care about the evidence ha

1920
01:24:14,010 --> 01:24:20,670
and change James Randi Austin is in his

1921
01:24:17,819 --> 01:24:23,250
video about this with a lucky pocketing

1922
01:24:20,670 --> 01:24:24,989
some of the difference between your by

1923
01:24:23,250 --> 01:24:28,079
price and cell phones yeah quite

1924
01:24:24,989 --> 01:24:30,750

possibly use but that's that could be

1925

01:24:28,079 --> 01:24:34,109

the answer to how come they were there

1926

01:24:30,750 --> 01:24:36,659

were another 31 debts yesterday and 75

1927

01:24:34,109 --> 01:24:39,269

injured in a car bomb blast targeting

1928

01:24:36,659 --> 01:24:43,649

hotels in Baghdad because chemical ali

1929

01:24:39,270 --> 01:24:45,270

was put step in and over so there's and

1930

01:24:43,649 --> 01:24:47,849

the even the Iraqi people are saying

1931

01:24:45,270 --> 01:24:49,380

that 11 by particular on the BBC report

1932

01:24:47,850 --> 01:24:52,530

said that he would drive through the

1933

01:24:49,380 --> 01:24:55,489

checkpoint and sometimes he have droids

1934

01:24:52,529 --> 01:24:57,420

news in his bag and the rod would move

1935

01:24:55,489 --> 01:24:58,868

sometimes he wouldn't and the rod would

1936

01:24:57,420 --> 01:25:00,998

still move and he said I wreck

1937

01:24:58,868 --> 01:25:03,069

doesn't work I surprise I don't have

1938

01:25:00,998 --> 01:25:06,658

like at least one level of redundancy by

1939
01:25:03,069 --> 01:25:06,658
having a couple psychic standing here

1940
01:25:10,859 --> 01:25:16,779
and now we're going to hear we're going

1941
01:25:14,198 --> 01:25:21,658
to hear from a man we all Revere and

1942
01:25:16,779 --> 01:25:21,658
love Samuel Hahnemann hello everybody

1943
01:25:22,618 --> 01:25:29,498
you know this Saturday is going to be a

1944
01:25:25,118 --> 01:25:32,648
celebration of homeopathy baby still

1945
01:25:29,498 --> 01:25:34,800
believe it after was easy yes Big Pharma

1946
01:25:32,649 --> 01:25:36,789
why don't you tell us all about it well

1947
01:25:34,800 --> 01:25:40,378
our you've been getting a little bit

1948
01:25:36,788 --> 01:25:43,748
annoyed with all this on me off of e

1949
01:25:40,378 --> 01:25:45,128
taking away money from my firm's and my

1950
01:25:43,748 --> 01:25:50,109
shields frankly you are not being

1951
01:25:45,128 --> 01:25:52,979
working hard enough anything and these

1952
01:25:50,109 --> 01:25:56,198
only off of us have been making billions

1953
01:25:52,979 --> 01:26:00,610
it's a multi-billion dollar industry and

1954
01:25:56,198 --> 01:26:02,888
they're just selling water so you all go

1955
01:26:00,609 --> 01:26:08,348
down the queen victoria building in the

1956
01:26:02,889 --> 01:26:10,510
center sydney on saturday will be going

1957
01:26:08,349 --> 01:26:14,110
to take an overdose on OBO pervy and

1958
01:26:10,510 --> 01:26:16,809
kill ourselves by taking too many army

1959
01:26:14,109 --> 01:26:20,948
your perfect sleeping pills and we'll

1960
01:26:16,809 --> 01:26:25,019
stick it to big homo homie oh we will we

1961
01:26:20,948 --> 01:26:27,428
or you I being our bottom 10 23 I

1962
01:26:25,019 --> 01:26:31,469
thought it worked at the time I didn't

1963
01:26:27,429 --> 01:26:36,998
know Daniel Sweden is a statue is doing

1964
01:26:31,469 --> 01:26:37,789
Washington DC yes it is a huge one in it

1965
01:26:36,998 --> 01:26:44,158
that

1966
01:26:37,789 --> 01:26:46,198
oh thank you Sam you're always going

1967

01:26:44,158 --> 01:26:47,939
thank goodness for that here's the 10 23

1968
01:26:46,198 --> 01:26:49,408
campaign map by the time most of you

1969
01:26:47,939 --> 01:26:51,658
hear this I think the campaign might be

1970
01:26:49,408 --> 01:26:55,769
over but in case you want to know about

1971
01:26:51,658 --> 01:26:58,589
it it's 10 20 30 40 k got all that you

1972
01:26:55,770 --> 01:26:59,610
can check it out big protest and we'll

1973
01:26:58,590 --> 01:27:02,039
be talking about that in the next

1974
01:26:59,609 --> 01:27:06,630
episode as well as some videos oh yes

1975
01:27:02,039 --> 01:27:10,350
video what a thing to what a thing take

1976
01:27:06,630 --> 01:27:11,940
a noisy one I'm on fire edit look we're

1977
01:27:10,350 --> 01:27:13,650
all looking over towards the restaurant

1978
01:27:11,939 --> 01:27:15,689
over there in the food calling us I

1979
01:27:13,649 --> 01:27:18,089
think Mama's here mama walls were a

1980
01:27:15,689 --> 01:27:19,589
moron Gran's restaurant I don't know

1981
01:27:18,090 --> 01:27:22,350

about you but that thing could save me

1982

01:27:19,590 --> 01:27:24,929

hungry who's definite what are your most

1983

01:27:22,350 --> 01:27:26,370

actually is part of my new miracle

1984

01:27:24,929 --> 01:27:28,679

weight loss program eat less and

1985

01:27:26,369 --> 01:27:30,779

exercise more it probably doesn't fit in

1986

01:27:28,679 --> 01:27:33,239

perfectly but I'll certainly be giving

1987

01:27:30,779 --> 01:27:35,550

me if you run to them to the register

1988

01:27:33,238 --> 01:27:37,919

does that who'd probably would help nice

1989

01:27:35,550 --> 01:27:40,170

more vital in my house just before we go

1990

01:27:37,920 --> 01:27:41,730

stepping right you've been posting up

1991

01:27:40,170 --> 01:27:43,500

some videos on your YouTube account

1992

01:27:41,729 --> 01:27:46,529

which i think our listeners would love

1993

01:27:43,500 --> 01:27:48,119

to see oh yeah why not yes sir richard

1994

01:27:46,529 --> 01:27:50,639

this actually goes back to nineteen

1995

01:27:48,119 --> 01:27:52,380

ninety-three when you we used to hang

1996
01:27:50,640 --> 01:27:54,060
out of this little piano bar at the

1997
01:27:52,380 --> 01:27:55,050
Excelsior we believe and are we still

1998
01:27:54,060 --> 01:27:56,670
like have a lot of fun down there and

1999
01:27:55,050 --> 01:27:59,219
you actually bought a video camera that

2000
01:27:56,670 --> 01:28:00,869
day and we buy the video there's a lot

2001
01:27:59,219 --> 01:28:03,329
of fun on it you can check out step and

2002
01:28:00,869 --> 01:28:05,640
years ago doing is is song and dance and

2003
01:28:03,329 --> 01:28:08,399
hazardous the doors and a bit of pink

2004
01:28:05,640 --> 01:28:12,989
for ya what's your you charges serious

2005
01:28:08,399 --> 01:28:14,579
01 c white riu s01 serious 01 check it

2006
01:28:12,988 --> 01:28:15,928
out listeners have a good look at Stefan

2007
01:28:14,579 --> 01:28:20,250
are too good laugh he hasn't changed

2008
01:28:15,929 --> 01:28:21,869
much I'm not sure thank you Stefan for

2009
01:28:20,250 --> 01:28:23,359
coming along for think I'm great to have

2010
01:28:21,869 --> 01:28:27,170
you on anything

2011
01:28:23,359 --> 01:28:28,549
thank you Ron Baker isn't maybe Rebecca

2012
01:28:27,170 --> 01:28:30,170
thank you Dave you sing a great daddy

2013
01:28:28,550 --> 01:28:35,750
back no it's great to be back please

2014
01:28:30,170 --> 01:28:37,489
visit my website at Dave you're just

2015
01:28:35,750 --> 01:28:39,920
couldn't leave lacto in protest against

2016
01:28:37,488 --> 01:28:41,388
the australians ongoing plans to censor

2017
01:28:39,920 --> 01:28:43,609
the internet so go to date than happy to

2018
01:28:41,389 --> 01:28:45,109
adopt a more about that and also big

2019
01:28:43,609 --> 01:28:48,829
farmer I believe you on my own Facebook

2020
01:28:45,109 --> 01:28:50,929
are you Oh what be right damn you can

2021
01:28:48,829 --> 01:28:57,100
get me at facebook.com slash big for a

2022
01:28:50,929 --> 01:29:03,590
conspiracy Thank You Diane to come alone

2023
01:28:57,100 --> 01:29:06,469
thank you it's the drunken madman genius

2024

01:29:03,590 --> 01:29:08,000
yeah and feel your your work with this

2025
01:29:06,469 --> 01:29:10,429
current interesting issue of the

2026
01:29:08,000 --> 01:29:13,279
shorties Joe good to see you again thank

2027
01:29:10,429 --> 01:29:17,630
you Richard and until next time you know

2028
01:29:13,279 --> 01:29:21,198
what right now the table i forgot dr.

2029
01:29:17,630 --> 01:29:23,029
rachel i'm there now thank you dr.

2030
01:29:21,198 --> 01:29:24,799
aegean what a week you've had oh yes

2031
01:29:23,029 --> 01:29:28,939
what do we keep it send me some laws

2032
01:29:24,800 --> 01:29:31,659
people until next time folks goodbye

2033
01:29:28,939 --> 01:29:31,658
from the thing today

2034
01:30:03,000 --> 01:30:10,319
ah Richard what a show thanks for being

2035
01:30:08,640 --> 01:30:12,270
part of the think tank bear step it was

2036
01:30:10,319 --> 01:30:13,829
awesome wasn't it great I can't believe

2037
01:30:12,270 --> 01:30:15,360
I was actually here there's like a dream

2038
01:30:13,829 --> 01:30:16,619

come true it was a dream come true and

2039

01:30:15,359 --> 01:30:19,109

all our guests tonight and I'm

2040

01:30:16,619 --> 01:30:21,239

completely tanked you are tank tank to

2041

01:30:19,109 --> 01:30:23,250

me did you ever been dunno it's very

2042

01:30:21,239 --> 01:30:24,989

like now yeah we'll look thanks for

2043

01:30:23,250 --> 01:30:26,520

having me cuz it was great yeah and what

2044

01:30:24,989 --> 01:30:27,630

another great show one another great

2045

01:30:26,520 --> 01:30:28,950

show and we've got another great show

2046

01:30:27,630 --> 01:30:30,659

lined up for next week and the week

2047

01:30:28,949 --> 01:30:31,979

after you just keep it coming don't you

2048

01:30:30,659 --> 01:30:34,050

Richard we drive there's just no

2049

01:30:31,979 --> 01:30:35,459

stopping and we're very trying that's

2050

01:30:34,050 --> 01:30:37,500

what they say that's what they say in

2051

01:30:35,460 --> 01:30:39,390

the reviews no but thanks this does has

2052

01:30:37,500 --> 01:30:41,909

been great once again that this show is

2053
01:30:39,390 --> 01:30:44,160
is going as well as ever I wasn't even

2054
01:30:41,909 --> 01:30:45,930
better even better even better than it

2055
01:30:44,159 --> 01:30:48,329
by the week and the itunes is still

2056
01:30:45,930 --> 01:30:49,890
still hanging on in there is ticking

2057
01:30:48,329 --> 01:30:52,319
over very well thank you listeners and

2058
01:30:49,890 --> 01:30:55,369
we'll see you next next next week next

2059
01:30:52,319 --> 01:30:55,369
time all right bye

2060
01:30:56,939 --> 01:31:02,939
you've been listening to the skeptic

2061
01:30:58,948 --> 01:31:06,719
zone visit our website at [www scripting](http://www.scripting)

2062
01:31:02,939 --> 01:31:09,348
zoomtv for comments contacts and extra

2063
01:31:06,719 --> 01:31:12,859
video reports

2064
01:31:09,349 --> 01:31:12,860
was it

2065
01:31:14,369 --> 01:31:16,399
Oh

2066
01:31:21,340 --> 01:31:23,400
Oh

2067

01:31:28,050 --> 01:31:30,110

you