

**SKEPTIC  
ZONE**



THINKING CAPS  
MUST BE WORN  
IN THIS AREA

The  
Podcast  
from  
Australia  
for  
Science  
and  
Reason

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

1  
00:00:05,329 --> 00:00:02,330  
can you say my name is Eric Saunders I

2  
00:00:18,710 --> 00:00:05,339  
name is Eric sordid and you're listening

3  
00:00:20,990 --> 00:00:18,720  
to and Corey chief very good welcome to

4  
00:00:24,390 --> 00:00:21,000  
the skeptic zone the podcast from

5  
00:00:28,050 --> 00:00:24,400  
Australia for science and reason

6  
00:00:32,750 --> 00:00:28,060  
urea hosts Richard Saunders and Stefan

7  
00:00:38,160 --> 00:00:36,090  
hello Richard is def hi Stefan I can't

8  
00:00:42,030 --> 00:00:38,170  
believe I'm actually here I'm in the

9  
00:00:44,250 --> 00:00:42,040  
free think tank holding doc you are you

10  
00:00:45,240 --> 00:00:44,260  
are not come along for the think tank

11  
00:00:47,910 --> 00:00:45,250  
but we thought we'd do a quick

12  
00:00:50,009 --> 00:00:47,920  
introduction to the show before yes we

13  
00:00:52,470 --> 00:00:50,019

start fantastic to me i'm actually in

14

00:00:54,150 --> 00:00:52,480

walking among skeptics at the moment as

15

00:00:56,100 --> 00:00:54,160

you are phenomenally we've got more

16

00:00:58,560 --> 00:00:56,110

skeptics coming in as your speakers it

17

00:01:02,670 --> 00:00:58,570

is good they're all gay and teaming into

18

00:01:04,770 --> 00:01:02,680

the flight aiming into it all fire

19

00:01:07,170 --> 00:01:04,780

rocket is how folks you're in for a big

20

00:01:08,940 --> 00:01:07,180

thing a big thing taking a bit later on

21

00:01:11,370 --> 00:01:08,950

a bit later that's a play right now it's

22

00:01:14,670 --> 00:01:11,380

the intro so we will go to the skeptics

23

00:01:17,279 --> 00:01:14,680

are this is shown number 67 40 29th of

24

00:01:18,930 --> 00:01:17,289

genuine yuri yes indeed january is

25

00:01:21,060 --> 00:01:18,940

nearly gone ah it's been a big week too

26

00:01:22,800 --> 00:01:21,070

because we had australia day we did that

27

00:01:24,680 --> 00:01:22,810

was really really Ozzy were you in

28

00:01:29,520 --> 00:01:24,690

particularly Australian on Australia Day

29

00:01:32,880 --> 00:01:29,530

well I stayed in the country you didn't

30

00:01:34,830 --> 00:01:32,890

that's enough yes very good well that's

31

00:01:36,770 --> 00:01:34,840

true yeah no I didn't even get drunk or

32

00:01:40,020 --> 00:01:36,780

anything so i'm actually on a new a new

33

00:01:42,420 --> 00:01:40,030

detox program called stop drinking are

34

00:01:45,450 --> 00:01:42,430

you yeah it's phenomenal it's a miracle

35

00:01:46,920 --> 00:01:45,460

in fact dr. stefan oh yeah we're gonna

36

00:01:48,840 --> 00:01:46,930

be hearing more about that from you

37

00:01:50,670 --> 00:01:48,850

later in the show I'm we may live in

38

00:01:53,310 --> 00:01:50,680

money will so what's happening what's

39

00:01:54,660 --> 00:01:53,320

happening this wonderful 67 shark we've

40

00:01:56,760 --> 00:01:54,670

got we're gonna kick off with an

41

00:01:59,160 --> 00:01:56,770

interview I could get in California with

42

00:02:02,280 --> 00:01:59,170

Eugenie Scott ah she's a bit of a

43

00:02:04,139 --> 00:02:02,290

popular 1i absolutely Jimmy's got very

44

00:02:06,480 --> 00:02:04,149

popular lady course at the National

45

00:02:08,940 --> 00:02:06,490

Center for Science Education doing her

46

00:02:10,889 --> 00:02:08,950

best to fight the creationists oh oh

47

00:02:12,720 --> 00:02:10,899

yeah that's a tough fight that's a very

48

00:02:17,180 --> 00:02:12,730

tough I because we are actually living

49

00:02:19,410 --> 00:02:17,190

in creation we are inverted commas

50

00:02:20,729 --> 00:02:19,420

creation is all around it's all around

51  
00:02:22,080 --> 00:02:20,739  
us here can't wait for that Eugenie

52  
00:02:24,930 --> 00:02:22,090  
Scott always something good to say

53  
00:02:28,890 --> 00:02:24,940  
that's followed by of course dr. Richie

54  
00:02:30,780 --> 00:02:28,900  
reports Oh dr. a chi o tea and she's a

55  
00:02:32,520 --> 00:02:30,790  
popular she's a fun exciting popular

56  
00:02:33,750 --> 00:02:32,530  
girl at the moment lots of news floating

57  
00:02:35,210 --> 00:02:33,760  
around dr. H get them i'll get to that

58  
00:02:38,060 --> 00:02:35,220  
in the think tank are you

59  
00:02:40,430 --> 00:02:38,070  
and and that's followed by of course

60  
00:02:42,800 --> 00:02:40,440  
which and you're here for the meeting

61  
00:02:45,770 --> 00:02:42,810  
hey Jake I'm actually he yes finally

62  
00:02:47,570 --> 00:02:45,780  
people gathering honor the tensions

63  
00:02:49,010 --> 00:02:47,580

mounting it's all here but we should

64

00:02:50,540 --> 00:02:49,020

actually get a bit of a show underway

65

00:02:52,100 --> 00:02:50,550

first and then we'll come back for it

66

00:03:11,350 --> 00:02:52,110

we'll do it we'll do it happen waiter

67

00:03:17,330 --> 00:03:14,300

eugenie see Scott is an american

68

00:03:19,460 --> 00:03:17,340

physical anthropologist who has been the

69

00:03:22,970 --> 00:03:19,470

executive director of the National

70

00:03:27,170 --> 00:03:22,980

Center for Science Education the NCSE

71

00:03:29,720 --> 00:03:27,180

since 1987 she is a leading critic of

72

00:03:32,480 --> 00:03:29,730

young earth creationism and intelligent

73

00:03:34,880 --> 00:03:32,490

design and I had the pleasure of

74

00:03:37,070 --> 00:03:34,890

visiting Eugenie at the National Center

75

00:03:41,510 --> 00:03:37,080

for Science Education in oakland

76  
00:03:43,970 --> 00:03:41,520  
california and i'm delighted to say that

77  
00:03:47,810 --> 00:03:43,980  
we've come to visit jeanne scott once

78  
00:03:50,570 --> 00:03:47,820  
again in open hello Jean hi there now

79  
00:03:52,790 --> 00:03:50,580  
this is my third or fourth visit I seem

80  
00:03:54,920 --> 00:03:52,800  
to be finding myself here almost every

81  
00:03:57,500 --> 00:03:54,930  
year over the years I think that's

82  
00:03:59,750 --> 00:03:57,510  
wonderful come back any any chance you

83  
00:04:02,660 --> 00:03:59,760  
get I do delighted to see you happy too

84  
00:04:04,550 --> 00:04:02,670  
now let's start straight away by

85  
00:04:06,740 --> 00:04:04,560  
something that struck me I was just

86  
00:04:08,780 --> 00:04:06,750  
looking at your notice board and i saw

87  
00:04:12,050 --> 00:04:08,790  
this lovely little booklet called Big

88  
00:04:16,190 --> 00:04:12,060

Daddy with a classic classic as sort of

89

00:04:19,310 --> 00:04:16,200

a weird a poor chimpanzee eating banana

90

00:04:21,110 --> 00:04:19,320

big daddy ? my first sword on the wall I

91

00:04:24,470 --> 00:04:21,120

thought our that's interesting they've

92

00:04:26,990 --> 00:04:24,480

got a souvenir of the Big Daddy pamphlet

93

00:04:29,540 --> 00:04:27,000

from the creationists from the 70s which

94

00:04:32,330 --> 00:04:29,550

is the first time I remember seeing it I

95

00:04:35,780 --> 00:04:32,340

had a Sunday school teacher in fact it

96

00:04:37,070 --> 00:04:35,790

was a mad keen creationist and she is

97

00:04:39,560 --> 00:04:37,080

trying to convince us all she gave me

98

00:04:41,600 --> 00:04:39,570

this little book but upon further

99

00:04:45,710 --> 00:04:41,610

examination and I looked at the back

100

00:04:47,990 --> 00:04:45,720

it's got a website it talks about Lucy

101  
00:04:50,240 --> 00:04:48,000  
and that's what caught my eye thought

102  
00:04:53,120 --> 00:04:50,250  
Lucy 1970s that doesn't make any sense

103  
00:04:57,110 --> 00:04:53,130  
so they're using this tired old

104  
00:04:59,840 --> 00:04:57,120  
ridiculous Big Daddy and how the moon's

105  
00:05:02,960 --> 00:04:59,850  
missing that's interesting i think the

106  
00:05:05,540 --> 00:05:02,970  
original one had the age of the moon in

107  
00:05:08,780 --> 00:05:05,550  
it from the 70s well I couldn't tell you

108  
00:05:10,610 --> 00:05:08,790  
for sure but you know Lucy goes back to

109  
00:05:14,090 --> 00:05:10,620  
the 1970s you you may just be

110  
00:05:16,700 --> 00:05:14,100  
misremembering your original exposure to

111  
00:05:19,340 --> 00:05:16,710  
this gym here but this is yeah this is

112  
00:05:20,390 --> 00:05:19,350  
chick publications Jack T chick the

113  
00:05:23,300 --> 00:05:20,400

famous Pam

114

00:05:25,370 --> 00:05:23,310

here from Southern California as soon as

115

00:05:28,340 --> 00:05:25,380

the web became available for

116

00:05:32,150 --> 00:05:28,350

proselytizing he pretty much jumped

117

00:05:34,100 --> 00:05:32,160

right on it I don't think that big daddy

118

00:05:36,469 --> 00:05:34,110

has been updated very much over the

119

00:05:39,200 --> 00:05:36,479

years it's a it is indeed one of the

120

00:05:41,480 --> 00:05:39,210

real classics yeah this this has been

121

00:05:45,260 --> 00:05:41,490

this has been one of their most popular

122

00:05:47,390 --> 00:05:45,270

of the creationist line course Jack

123

00:05:49,340 --> 00:05:47,400

chick has got a whole variety of

124

00:05:51,650 --> 00:05:49,350

pamphlets on a whole lot of other

125

00:05:53,240 --> 00:05:51,660

religious themes other than evolution

126

00:05:55,279 --> 00:05:53,250

course were only interested in

127

00:05:56,900 --> 00:05:55,289

collecting the evolution ones but yeah

128

00:05:59,360 --> 00:05:56,910

he's got a whole bunch of anti-catholic

129

00:06:01,070 --> 00:05:59,370

ones and he's got anti-jewish ones and

130

00:06:03,379 --> 00:06:01,080

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

131

00:06:07,909 --> 00:06:03,389

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

132

00:06:10,969 --> 00:06:07,919

pretty sobering sight if you go to WWE

133

00:06:14,540 --> 00:06:10,979

com you must have gotten that domain

134

00:06:16,760 --> 00:06:14,550

name very early yes that's because

135

00:06:19,100 --> 00:06:16,770

domain names go he must have snagged

136

00:06:22,629 --> 00:06:19,110

that very early in the in the game yeah

137

00:06:24,980 --> 00:06:22,639

I seem to remember a number of years ago

138

00:06:28,850 --> 00:06:24,990

somehow doing a search for this sort of

139

00:06:32,689 --> 00:06:28,860

thing and coming across a PDF of that

140

00:06:34,430 --> 00:06:32,699

big daddy but it must have been from the

141

00:06:36,500 --> 00:06:34,440

70s or something like that because it

142

00:06:38,719 --> 00:06:36,510

seems to me that be the one I remember

143

00:06:41,659 --> 00:06:38,729

and as I say the one I remember from

144

00:06:44,570 --> 00:06:41,669

those all those years ago had the age of

145

00:06:46,520 --> 00:06:44,580

the moon as one of the arguments for a

146

00:06:48,140 --> 00:06:46,530

young earth DC well how do you explain

147

00:06:49,659 --> 00:06:48,150

that when the astronauts went to the

148

00:06:52,159 --> 00:06:49,669

moon and they put their foot in the

149

00:06:54,920 --> 00:06:52,169

whatever it was and the dust arguments

150

00:06:57,200 --> 00:06:54,930

oh the meteoritic dust on the moon yeah

151

00:06:59,689 --> 00:06:57,210

yes that's one of the classics I don't

152

00:07:01,640 --> 00:06:59,699

recall whether that was in Big Daddy I'm

153

00:07:03,790 --> 00:07:01,650

flipping through it right now but yeah

154

00:07:05,719 --> 00:07:03,800

that is that is one of the classic

155

00:07:07,460 --> 00:07:05,729

arguments that the creationists have

156

00:07:09,890 --> 00:07:07,470

used although interestingly enough if

157

00:07:12,830 --> 00:07:09,900

you go to Answers in Genesis which is

158

00:07:14,589 --> 00:07:12,840

now arguably the largest of the young

159

00:07:19,659 --> 00:07:14,599

earth creationist organizations

160

00:07:21,469 --> 00:07:19,669

surpassing in size it's the inspiration

161

00:07:24,010 --> 00:07:21,479

organization I guess you could call it

162

00:07:27,290 --> 00:07:24,020

the Institute for Creation Research

163

00:07:30,649 --> 00:07:27,300

inspiration oh yes Answers in Genesis

164

00:07:33,610 --> 00:07:30,659

could be considered progeny as it were

165

00:07:35,110 --> 00:07:33,620

of the icr

166

00:07:38,080 --> 00:07:35,120

started by one of your folks of course

167

00:07:41,710 --> 00:07:38,090

ken ham and Australian who came who was

168

00:07:44,170 --> 00:07:41,720

inspired by Henry Morris of the icr and

169

00:07:45,760 --> 00:07:44,180

came to the United States worked for the

170

00:07:47,890 --> 00:07:45,770

icr for a number of years and then

171

00:07:51,939 --> 00:07:47,900

branched off to form Answers in Genesis

172

00:07:54,879 --> 00:07:51,949

himself in Kentucky but anyway I CR has

173

00:07:56,650 --> 00:07:54,889

now grown larger than excuse me Answers

174

00:07:59,080 --> 00:07:56,660

in Genesis is growing larger than the

175

00:08:01,000 --> 00:07:59,090

Institute for Creation Research but if

176

00:08:03,400 --> 00:08:01,010

you look at the IC our website the

177

00:08:05,379 --> 00:08:03,410

answers in genesis org you'll find a

178

00:08:07,930 --> 00:08:05,389

list of arguments creationist should not

179

00:08:10,629 --> 00:08:07,940

use and the dust on the moon argument is

180

00:08:12,909 --> 00:08:10,639

one of them but they argue should not be

181

00:08:15,400 --> 00:08:12,919

used because it's not scientifically

182

00:08:19,840 --> 00:08:15,410

accurate which of course makes those of

183

00:08:24,450 --> 00:08:19,850

us train the science just hold our heads

184

00:08:29,379 --> 00:08:24,460

because I you know there's this kind of

185

00:08:32,350 --> 00:08:29,389

crazy craziness with with young Earth

186

00:08:36,190 --> 00:08:32,360

Creationism you know some of them some

187

00:08:38,140 --> 00:08:36,200

of them actually are trying to to act

188

00:08:39,610 --> 00:08:38,150

like scientists some of the time you

189

00:08:43,180 --> 00:08:39,620

know it which is what makes it such a

190

00:08:45,370 --> 00:08:43,190

fascinating area of sociological area of

191

00:08:47,890 --> 00:08:45,380

study I mean they'll they'll look at

192

00:08:52,300 --> 00:08:47,900

arguments like the dust on the moon

193

00:08:54,600 --> 00:08:52,310

argument or or a historical claim like

194

00:08:56,800 --> 00:08:54,610

Darwin's deathbed confession yeah and

195

00:08:59,079 --> 00:08:56,810

they'll look at the evidence and say

196

00:09:00,940 --> 00:08:59,089

okay that those are not valid arguments

197

00:09:02,740 --> 00:09:00,950

so we should stop using those or the

198

00:09:04,630 --> 00:09:02,750

second law of thermodynamics is not a

199

00:09:08,110 --> 00:09:04,640

valid argument against evolution so we

200

00:09:11,860 --> 00:09:08,120

should stop using that and yet at the

201  
00:09:16,000 --> 00:09:11,870  
same time they still do not reject the

202  
00:09:19,030 --> 00:09:16,010  
basic way of thinking about these issues

203  
00:09:20,980 --> 00:09:19,040  
which is the major problem that they

204  
00:09:24,510 --> 00:09:20,990  
have which is that you put the revealed

205  
00:09:27,280 --> 00:09:24,520  
truth of the Bible first and you look as

206  
00:09:30,040 --> 00:09:27,290  
in fact Ken Ham will tell you on his

207  
00:09:32,110 --> 00:09:30,050  
website you look at all of the empirical

208  
00:09:34,480 --> 00:09:32,120  
evidence through your biblical glasses

209  
00:09:37,090 --> 00:09:34,490  
that's the phrase that he uses that

210  
00:09:39,420 --> 00:09:37,100  
everything has to be viewed in terms of

211  
00:09:42,879 --> 00:09:39,430  
its agreement with a revealed truth yeah

212  
00:09:46,569 --> 00:09:42,889  
and that is the major stumbling block

213  
00:09:48,699 --> 00:09:46,579

in terms of accordance with science so

214

00:09:50,439 --> 00:09:48,709

they kind of have to get over that first

215

00:09:53,259 --> 00:09:50,449

before they could really be taken

216

00:09:55,689 --> 00:09:53,269

seriously as scientists but you know God

217

00:09:58,139 --> 00:09:55,699

love them every once in a while they

218

00:10:02,799 --> 00:09:58,149

accidentally do something right like

219

00:10:04,389 --> 00:10:02,809

like Darwin's deathbed confession should

220

00:10:07,679 --> 00:10:04,399

be taken off the list of arguments of

221

00:10:09,909 --> 00:10:07,689

well thank you for that much anyway I

222

00:10:12,519 --> 00:10:09,919

heard an interview with Richard Dawkins

223

00:10:14,769 --> 00:10:12,529

slightly where he said that and his

224

00:10:18,189 --> 00:10:14,779

deathbed he wants video cameras and tape

225

00:10:20,169 --> 00:10:18,199

recorders rolling so no one can come

226

00:10:26,619 --> 00:10:20,179

back and say you know dork antenna

227

00:10:28,809 --> 00:10:26,629

deathbed revelation or something look it

228

00:10:32,109 --> 00:10:28,819

yeah yeah I think that's actually very

229

00:10:35,590 --> 00:10:32,119

funny Richard does have a sense of humor

230

00:10:37,689 --> 00:10:35,600

you know but somebody is probably going

231

00:10:41,919 --> 00:10:37,699

to seal a little puffs of vapour

232

00:10:43,419 --> 00:10:41,929

somewhere and say AHA the if you want to

233

00:10:46,119 --> 00:10:43,429

believe in that sort of thing you will

234

00:10:49,479 --> 00:10:46,129

find some kind of mystical evidence of

235

00:10:51,249 --> 00:10:49,489

God knows wet who I mean people will

236

00:10:53,679 --> 00:10:51,259

people will come up for evidence for

237

00:10:55,449 --> 00:10:53,689

what they want to believe in so somebody

238

00:10:57,220 --> 00:10:55,459

will probably cut 50 years from now we

239

00:10:59,350 --> 00:10:57,230

will probably have Dawkins deathbed

240

00:11:03,939 --> 00:10:59,360

confession or maybe even Scott's

241

00:11:05,499 --> 00:11:03,949

deathbed confession no sir our Saunders

242

00:11:07,359 --> 00:11:05,509

deathbed confession who knows what

243

00:11:10,419 --> 00:11:07,369

they'll be but I have this not 50 years

244

00:11:15,729 --> 00:11:10,429

I've been 70 but that's closer for me

245

00:11:16,960 --> 00:11:15,739

and dr. it's also the same accusation if

246

00:11:18,869 --> 00:11:16,970

that's the right word has been made

247

00:11:22,329 --> 00:11:18,879

about Carl Sagan that he had a

248

00:11:27,279 --> 00:11:22,339

conversion on his deathbed it's it's

249

00:11:30,489 --> 00:11:27,289

it's so very easily learned meme as it

250

00:11:32,619 --> 00:11:30,499

were mmm there there are some there are

251  
00:11:35,499 --> 00:11:32,629  
some ideas that are very easily learned

252  
00:11:37,479 --> 00:11:35,509  
and very rapidly spread yeah and that's

253  
00:11:40,210 --> 00:11:37,489  
one of them yeah that's an easy one too

254  
00:11:42,099 --> 00:11:40,220  
because you can just say it as we were

255  
00:11:44,829 --> 00:11:42,109  
discussing before the interview when you

256  
00:11:50,889 --> 00:11:44,839  
can just make stuff up and people will

257  
00:11:53,499 --> 00:11:50,899  
believe you MSU that's that that would

258  
00:11:55,049 --> 00:11:53,509  
be nice to put in cross stitch and frame

259  
00:11:57,689 --> 00:11:55,059  
it on the wall

260  
00:11:59,909 --> 00:11:57,699  
we say that a lot about our people we

261  
00:12:02,159 --> 00:11:59,919  
battle against especially in the

262  
00:12:04,349 --> 00:12:02,169  
skeptical world they can just make stuff

263  
00:12:07,499 --> 00:12:04,359

up mmm the stuff you can read whatever

264

00:12:09,599 --> 00:12:07,509

other s were do you like but it's true

265

00:12:12,719 --> 00:12:09,609

but just speaking getting back to

266

00:12:14,729 --> 00:12:12,729

Richard Dawkins I recently had the

267

00:12:17,849 --> 00:12:14,739

pleasure of reading his new book yeah

268

00:12:19,589 --> 00:12:17,859

its greatest show on earth which I

269

00:12:21,359 --> 00:12:19,599

thoroughly enjoyed I really love his

270

00:12:24,589 --> 00:12:21,369

style he takes you on these wonderful

271

00:12:27,659 --> 00:12:24,599

little adventures down evolution and

272

00:12:29,939 --> 00:12:27,669

it's also it taught me an awful lot

273

00:12:33,089 --> 00:12:29,949

ending out the process of it and this

274

00:12:37,489 --> 00:12:33,099

wonderful idea of how important islands

275

00:12:42,389 --> 00:12:40,169

classic islands in the ocean like the

276

00:12:44,129 --> 00:12:42,399

Galactica's for example or the tops of

277

00:12:45,779 --> 00:12:44,139

mountains separated by deep valleys

278

00:12:47,819 --> 00:12:45,789

which are also islands and things like

279

00:12:50,669 --> 00:12:47,829

that and on and on it goes so if

280

00:12:52,259 --> 00:12:50,679

listeners haven't bought themselves a

281

00:12:54,089 --> 00:12:52,269

copy of the greatest show on earth I can

282

00:12:57,209 --> 00:12:54,099

thoroughly recommend it I imagine you

283

00:13:00,479 --> 00:12:57,219

enjoyed it very much very much and as he

284

00:13:01,919 --> 00:13:00,489

says in the introduction and I had never

285

00:13:03,269 --> 00:13:01,929

really thought about it this way and so

286

00:13:05,609 --> 00:13:03,279

that was really fun to read he says you

287

00:13:07,559 --> 00:13:05,619

know I've never actually sat down and

288

00:13:11,879 --> 00:13:07,569

written a book about the evidence for

289

00:13:14,639 --> 00:13:11,889

evolution yeah good idea yes good job

290

00:13:18,209 --> 00:13:14,649

yeah thanks for doing this and it's a

291

00:13:20,429 --> 00:13:18,219

very good I'm really I'm really glad he

292

00:13:22,019 --> 00:13:20,439

did and it's a very nice book for me to

293

00:13:25,229 --> 00:13:22,029

be able to recommend to people who are

294

00:13:27,749 --> 00:13:25,239

looking for a very readable and Jerry

295

00:13:31,559 --> 00:13:27,759

coins book is another very readable nice

296

00:13:33,359 --> 00:13:31,569

short introduction for people who are

297

00:13:35,279 --> 00:13:33,369

trying to understand what evolution is

298

00:13:38,159 --> 00:13:35,289

all about another person who's very good

299

00:13:41,609 --> 00:13:38,169

at that is Carl Zimmer he's written a

300

00:13:43,049 --> 00:13:41,619

new it's actually a textbook it's called

301

00:13:45,119 --> 00:13:43,059

the textbook it'll be marketed as a

302

00:13:47,219 --> 00:13:45,129

textbook but don't think of it as a text

303

00:13:48,989 --> 00:13:47,229

book because textbook has the

304

00:13:51,029 --> 00:13:48,999

connotation of being sort of boring and

305

00:13:53,759 --> 00:13:51,039

ponderous and this is not Carl Zimmer is

306

00:13:56,399 --> 00:13:53,769

a wonderful science writer and his book

307

00:13:58,139 --> 00:13:56,409

is extremely lively and well illustrated

308

00:14:00,689 --> 00:13:58,149

and it's just you know it's hard to put

309

00:14:02,579 --> 00:14:00,699

down so there is a number of really good

310

00:14:05,460 --> 00:14:02,589

books out on the market these days to

311

00:14:07,150 --> 00:14:05,470

help people understand why evolution is

312

00:14:08,889 --> 00:14:07,160

so well accepted by the

313

00:14:11,290 --> 00:14:08,899

to the community and what where the

314

00:14:16,509 --> 00:14:11,300

evidence comes from yeah yeah and and

315

00:14:19,090 --> 00:14:16,519

how how abundant that evidence is yes

316

00:14:20,889 --> 00:14:19,100

and I like the point that Dawkins makes

317

00:14:24,249 --> 00:14:20,899

in his book that the fossil record is

318

00:14:26,019 --> 00:14:24,259

it's it's a nice bonus mm-hmm as far as

319

00:14:28,090 --> 00:14:26,029

the evidence for evolution but it's not

320

00:14:30,429 --> 00:14:28,100

necessary so when the creationists

321

00:14:33,519 --> 00:14:30,439

squawk on which they will do to the end

322

00:14:35,350 --> 00:14:33,529

of time about missing or gaps or

323

00:14:38,800 --> 00:14:35,360

whatever the missing links gaps in the

324

00:14:41,230 --> 00:14:38,810

fossil record or whatever it is as far

325

00:14:44,259 --> 00:14:41,240

as the science goes it's neither here

326

00:14:49,929 --> 00:14:44,269

nor there actually I have to disagree

327

00:14:51,550 --> 00:14:49,939

with him on that because um we need all

328

00:14:53,980 --> 00:14:51,560

of the sources of evidence if we're

329

00:14:55,840 --> 00:14:53,990

gonna have a complete picture yeah I

330

00:14:58,540 --> 00:14:55,850

think it's wonderful that we have all

331

00:15:00,189 --> 00:14:58,550

this molecular evidence but that doesn't

332

00:15:02,650 --> 00:15:00,199

mean that the fossil evidence is

333

00:15:04,240 --> 00:15:02,660

obsolete I wonder if that I wonder if

334

00:15:07,030 --> 00:15:04,250

I've missed a Tuesday no you haven't

335

00:15:11,499 --> 00:15:07,040

because he was a was almost that that

336

00:15:13,749 --> 00:15:11,509

forceful in his book and and that's he

337

00:15:15,790 --> 00:15:13,759

was perhaps making a very useful point

338

00:15:17,860 --> 00:15:15,800

that we are not dependent upon the

339

00:15:19,509 --> 00:15:17,870

fossil evidence and that's a very good

340

00:15:22,780 --> 00:15:19,519

point to make especially with the

341

00:15:25,689 --> 00:15:22,790

general public which I think doesn't

342

00:15:27,069 --> 00:15:25,699

understand how how much we can

343

00:15:29,559 --> 00:15:27,079

supplement our understanding of

344

00:15:33,910 --> 00:15:29,569

evolution from the study of extent

345

00:15:36,699 --> 00:15:33,920

organism organism and and actually one

346

00:15:38,410 --> 00:15:36,709

of periodically people will ask me

347

00:15:42,400 --> 00:15:38,420

what's the single best source of

348

00:15:44,889 --> 00:15:42,410

information about evolution and lately

349

00:15:46,329 --> 00:15:44,899

I've been you know what what you can

350

00:15:47,949 --> 00:15:46,339

save the fossil record you can say

351  
00:15:50,400 --> 00:15:47,959  
genetics you can say they say that but

352  
00:15:56,019 --> 00:15:50,410  
lately I've been saying biogeography

353  
00:15:57,309 --> 00:15:56,029  
because it it's an area of evidence for

354  
00:15:59,199 --> 00:15:57,319  
evolution that most people don't think

355  
00:16:01,870 --> 00:15:59,209  
about but it was actually the one that

356  
00:16:04,389 --> 00:16:01,880  
Darwin thought was most strong and it

357  
00:16:06,879 --> 00:16:04,399  
still is a wonderful wonderful source of

358  
00:16:09,009 --> 00:16:06,889  
evidence for evolution because you know

359  
00:16:10,960 --> 00:16:09,019  
the distribution of plants and animals

360  
00:16:13,119 --> 00:16:10,970  
and their characteristics are the way

361  
00:16:14,910 --> 00:16:13,129  
they are because living things descended

362  
00:16:17,860 --> 00:16:14,920  
with modification from common ancestors

363  
00:16:19,340 --> 00:16:17,870

but I'm diverging here from the point

364

00:16:23,630 --> 00:16:19,350

that we were talking about

365

00:16:26,690 --> 00:16:23,640

the fossil record is a wonderful source

366

00:16:29,180 --> 00:16:26,700

of information about evolution we are

367

00:16:30,830 --> 00:16:29,190

not dependent upon it but we there are

368

00:16:33,400 --> 00:16:30,840

things that we can understand about

369

00:16:35,930 --> 00:16:33,410

evolution only from the fossil record

370

00:16:38,450 --> 00:16:35,940

we're not going to find out well let's

371

00:16:39,980 --> 00:16:38,460

just take an example from the human but

372

00:16:42,320 --> 00:16:39,990

we're not going to find out when humans

373

00:16:45,050 --> 00:16:42,330

started using fire from molecules I

374

00:16:46,610 --> 00:16:45,060

understand yes I mean that's a really

375

00:16:49,400 --> 00:16:46,620

obvious one and we could come up with

376

00:16:53,150 --> 00:16:49,410

some other examples yeah okay now no I

377

00:16:55,790 --> 00:16:53,160

get the point but but be that as it may

378

00:16:58,970 --> 00:16:55,800

the the wealth of information thats

379

00:17:02,360 --> 00:16:58,980

hanging richard dawkins what what

380

00:17:04,670 --> 00:17:02,370

darwin's contemporary Huell called

381

00:17:07,100 --> 00:17:04,680

concilium the fact that all these

382

00:17:08,810 --> 00:17:07,110

different lines of evidence all point to

383

00:17:12,350 --> 00:17:08,820

the same conclusion that living things

384

00:17:14,870 --> 00:17:12,360

had common ancestors and today we would

385

00:17:17,740 --> 00:17:14,880

add to the biogeography that darwin

386

00:17:22,310 --> 00:17:17,750

talked about we would add the

387

00:17:27,110 --> 00:17:22,320

embryological evidence last night there

388

00:17:32,300 --> 00:17:27,120

was a wonderful program on the PBS nova

389

00:17:33,980 --> 00:17:32,310

program about evo-devo only one what

390

00:17:35,720 --> 00:17:33,990

Darwin didn't know what Darwin didn't

391

00:17:38,060 --> 00:17:35,730

yeah yeah I said that listed I didn't I

392

00:17:39,410 --> 00:17:38,070

didn't catch it i alas missed it last

393

00:17:41,240 --> 00:17:39,420

night i'll have to catch it online

394

00:17:46,130 --> 00:17:41,250

because we had dinner with some friends

395

00:17:48,770 --> 00:17:46,140

but the whole nature of understanding

396

00:17:52,820 --> 00:17:48,780

how it is that have fertilized cell

397

00:17:54,440 --> 00:17:52,830

becomes an organism and the similarities

398

00:17:57,290 --> 00:17:54,450

and differences of the genes and the

399

00:17:58,970 --> 00:17:57,300

patterns of development are the way they

400

00:18:00,950 --> 00:17:58,980

are because living things shared common

401  
00:18:02,810 --> 00:18:00,960  
ancestors I mean that is another insight

402  
00:18:04,700 --> 00:18:02,820  
into evolution and you can only

403  
00:18:07,250 --> 00:18:04,710  
understand those patterns of development

404  
00:18:08,630 --> 00:18:07,260  
if you understand evolution and you can

405  
00:18:09,920 --> 00:18:08,640  
only understand evolution if you

406  
00:18:12,500 --> 00:18:09,930  
understand those patterns of development

407  
00:18:14,690 --> 00:18:12,510  
so there's there's this feedback system

408  
00:18:17,840 --> 00:18:14,700  
and what they call evo-devo or evolution

409  
00:18:21,050 --> 00:18:17,850  
and development that becomes very clear

410  
00:18:23,120 --> 00:18:21,060  
when you when you look at both of these

411  
00:18:25,640 --> 00:18:23,130  
fields together so you have biogeography

412  
00:18:27,740 --> 00:18:25,650  
you have the field of embryology you

413  
00:18:31,070 --> 00:18:27,750

have all the wonderful understandings we

414

00:18:32,830 --> 00:18:31,080

have from molecular evolutionary studies

415

00:18:39,269 --> 00:18:32,840

in comparison and

416

00:18:41,710 --> 00:18:39,279

comparison of various phylogenies of a

417

00:18:45,100 --> 00:18:41,720

variety of molecules a variety of

418

00:18:46,360 --> 00:18:45,110

proteins and enzymes and you know the

419

00:18:48,250 --> 00:18:46,370

more recently you shared a common

420

00:18:51,159 --> 00:18:48,260

ancestor the more similar your proteins

421

00:18:55,149 --> 00:18:51,169

I mean these kinds of patterns are very

422

00:18:59,169 --> 00:18:55,159

very clear only if evolution has taken

423

00:19:01,570 --> 00:18:59,179

place in genetics is the way it is

424

00:19:03,700 --> 00:19:01,580

because of common ancestry you can just

425

00:19:06,279 --> 00:19:03,710

find pattern after pattern after pattern

426

00:19:08,850 --> 00:19:06,289

in biology because of evolution yes and

427

00:19:12,070 --> 00:19:08,860

that is what he will meant by concilium

428

00:19:14,620 --> 00:19:12,080

that is that is really what Dawkins is

429

00:19:16,149 --> 00:19:14,630

talking about in his book he makes it's

430

00:19:18,340 --> 00:19:16,159

interesting he makes a couple the same

431

00:19:21,100 --> 00:19:18,350

points which is unavoidable I guess as

432

00:19:24,039 --> 00:19:21,110

he did in the ancestor's tale mmm which

433

00:19:27,340 --> 00:19:24,049

is a marvelous book too about when you

434

00:19:30,250 --> 00:19:27,350

go back you find the now what is the

435

00:19:32,230 --> 00:19:30,260

word he used for the common ancestor of

436

00:19:33,760 --> 00:19:32,240

two species when you go back in time

437

00:19:35,049 --> 00:19:33,770

you'll find the one common ancestor you

438

00:19:37,149 --> 00:19:35,059

can branch that back and back I just

439

00:19:38,560 --> 00:19:37,159

can't remember the term you used for

440

00:19:40,419 --> 00:19:38,570

that common ancestor but he talks about

441

00:19:41,830 --> 00:19:40,429

that in the greatest show on earth of

442

00:19:43,750 --> 00:19:41,840

course if you go back and you can make a

443

00:19:46,299 --> 00:19:43,760

u-turn and follow the other branch to

444

00:19:48,130 --> 00:19:46,309

another species for example with us if

445

00:19:50,260 --> 00:19:48,140

you go back far enough you'll find the

446

00:19:53,080 --> 00:19:50,270

common answers the common ancestor

447

00:19:54,610 --> 00:19:53,090

between us and chimpanzees and if you

448

00:19:57,880 --> 00:19:54,620

take a u-turn then you follow to the

449

00:20:01,060 --> 00:19:57,890

chimpanzees so that's a he just writes

450

00:20:04,779 --> 00:20:01,070

about it in such a readable way so

451  
00:20:07,419 --> 00:20:04,789  
easily I easily understood yes and now

452  
00:20:10,029 --> 00:20:07,429  
speaking of Darwin's documentaries on

453  
00:20:11,980 --> 00:20:10,039  
Darwin recently in Australia there was a

454  
00:20:13,269 --> 00:20:11,990  
four or five part of three part i can't

455  
00:20:14,620 --> 00:20:13,279  
remember series about the life of

456  
00:20:16,510 --> 00:20:14,630  
Charles Darwin which was interspersed

457  
00:20:17,710 --> 00:20:16,520  
with scientists commenting I can't

458  
00:20:20,889 --> 00:20:17,720  
remember if you were involved with that

459  
00:20:22,870 --> 00:20:20,899  
on an exit which was marvelous you know

460  
00:20:25,149 --> 00:20:22,880  
all about his life needs discoveries and

461  
00:20:27,700 --> 00:20:25,159  
that sort of thing and Wallace came into

462  
00:20:30,820 --> 00:20:27,710  
it not all that sort of stuff but I note

463  
00:20:34,330 --> 00:20:30,830

and I was just in borders book shop

464

00:20:37,659 --> 00:20:34,340

yesterday in berkeley i think or

465

00:20:39,669 --> 00:20:37,669

downtown san francisco and i was looking

466

00:20:42,039 --> 00:20:39,679

on the documentary shelf for the dvds

467

00:20:43,480 --> 00:20:42,049

and there was one about Darwin I thought

468

00:20:44,940 --> 00:20:43,490

that looks interesting and I flip

469

00:20:48,250 --> 00:20:44,950

Verna's reading the back and said

470

00:20:51,010 --> 00:20:48,260

creation ministries what I think you

471

00:20:53,140 --> 00:20:51,020

know a little bit about this is the one

472

00:20:56,590 --> 00:20:53,150

that that is on your website about the

473

00:20:58,780 --> 00:20:56,600

or was it Darwin's I mean listen there

474

00:21:01,270 --> 00:20:58,790

is a list of creationist movies about

475

00:21:04,000 --> 00:21:01,280

narrow oh really yeah it's it's hard to

476  
00:21:06,190 --> 00:21:04,010  
know where shall we begin was it

477  
00:21:10,360 --> 00:21:06,200  
Darwin's dilemma yes okay well there you

478  
00:21:12,580 --> 00:21:10,370  
have it so you are asking perhaps about

479  
00:21:14,799 --> 00:21:12,590  
the lawsuit well I'm asking about that

480  
00:21:16,870 --> 00:21:14,809  
lil so I haven't seen this Darwin's

481  
00:21:20,320 --> 00:21:16,880  
dilemma I'm not I don't know too much

482  
00:21:22,090 --> 00:21:20,330  
about it you have you seen it I don't

483  
00:21:24,310 --> 00:21:22,100  
think I've seen that particular run no

484  
00:21:25,990 --> 00:21:24,320  
but I know what it's about because it's

485  
00:21:30,520 --> 00:21:26,000  
been making the rounds my colleagues

486  
00:21:33,280 --> 00:21:30,530  
have seen it okay um I've been 2009 has

487  
00:21:36,820 --> 00:21:33,290  
been a busy year it's been the big

488  
00:21:39,419 --> 00:21:36,830

Darwin years so people literally all

489

00:21:43,480 --> 00:21:39,429

over the world have been having a lot of

490

00:21:45,250 --> 00:21:43,490

Darwin conferences and whose programs

491

00:21:47,950 --> 00:21:45,260

and it's it's been quite wonderful but

492

00:21:51,940 --> 00:21:47,960

I've had been fortunate enough to been

493

00:21:53,350 --> 00:21:51,950

invited on a lot of requests for

494

00:21:56,049 --> 00:21:53,360

Speaking so I've been out of the office

495

00:21:57,430 --> 00:21:56,059

a lot so yeah i'm a bit behind in a lot

496

00:21:59,140 --> 00:21:57,440

of these other kinds but you know my

497

00:22:03,310 --> 00:21:59,150

staff has seen it and so we know what

498

00:22:08,410 --> 00:22:03,320

it's about one of the main one of the

499

00:22:13,900 --> 00:22:08,420

main arguments made in this video is

500

00:22:16,240 --> 00:22:13,910

that the Cambrian explosion is an

501  
00:22:23,799 --> 00:22:16,250  
extremely difficult problem for

502  
00:22:26,799 --> 00:22:23,809  
evolution to handle that it is this

503  
00:22:28,780 --> 00:22:26,809  
insurmountable object for for evolution

504  
00:22:30,430 --> 00:22:28,790  
because evolution cannot explain the

505  
00:22:32,500 --> 00:22:30,440  
sudden appearance of all of these

506  
00:22:40,840 --> 00:22:32,510  
platforms which is a lot of nonsense of

507  
00:22:42,520 --> 00:22:40,850  
course MSU as we were saying so um this

508  
00:22:45,100 --> 00:22:42,530  
this of course comes as a great surprise

509  
00:22:47,380 --> 00:22:45,110  
to paleontologists who considered an

510  
00:22:49,150 --> 00:22:47,390  
interesting scientific puzzle but

511  
00:22:51,940 --> 00:22:49,160  
certainly not an insurmountable obstacle

512  
00:22:54,540 --> 00:22:51,950  
and certainly nothing that would throw

513  
00:22:56,540 --> 00:22:54,550

out the possibility of evolution yeah

514

00:23:00,230 --> 00:22:56,550

number one there are

515

00:23:03,410 --> 00:23:00,240

precambrian precursors for this quote

516

00:23:06,950 --> 00:23:03,420

explosion and as two explosions it's a

517

00:23:08,540 --> 00:23:06,960

fairly it's an explosion in geological

518

00:23:11,480 --> 00:23:08,550

terms in the sense that it takes place

519

00:23:13,880 --> 00:23:11,490

over about you know 10 to 20 million

520

00:23:15,800 --> 00:23:13,890

years it's kind of a slow fuse for the

521

00:23:17,480 --> 00:23:15,810

most of us in terms of what we would

522

00:23:22,040 --> 00:23:17,490

consider an explosion but you know

523

00:23:24,020 --> 00:23:22,050

whatever it's it is interesting from a

524

00:23:25,610 --> 00:23:24,030

biological and geological standpoint

525

00:23:28,370 --> 00:23:25,620

because a lots happening pretty quickly

526

00:23:30,650 --> 00:23:28,380

and why this is happening is the

527

00:23:32,930 --> 00:23:30,660

interesting geological and

528

00:23:35,630 --> 00:23:32,940

paleontological puzzle is it because

529

00:23:38,120 --> 00:23:35,640

there's more oxygen is because there's

530

00:23:39,770 --> 00:23:38,130

more predation is it because things are

531

00:23:41,210 --> 00:23:39,780

forming shells because of greater

532

00:23:43,010 --> 00:23:41,220

predation I mean there's lots of fun

533

00:23:45,050 --> 00:23:43,020

stuff that paleontologists are playing

534

00:23:46,760 --> 00:23:45,060

with you but under no circumstances is

535

00:23:48,890 --> 00:23:46,770

anybody throwing up their hands and

536

00:23:52,790 --> 00:23:48,900

dismay and saying oh dear Darwin was

537

00:23:56,060 --> 00:23:52,800

wrong yes that's it but yeah this is one

538

00:23:57,260 --> 00:23:56,070

of the one of the melodies that the

539

00:24:00,550 --> 00:23:57,270

creationist have been playing for

540

00:24:04,240 --> 00:24:00,560

decades that this is a great problem so

541

00:24:07,430 --> 00:24:04,250

this movie as well as several other

542

00:24:09,830 --> 00:24:07,440

presentations of the creationists have

543

00:24:11,300 --> 00:24:09,840

been proposing that the Cambrian

544

00:24:13,460 --> 00:24:11,310

explosion is this insurmountable

545

00:24:14,960 --> 00:24:13,470

obstacle might be worth me buying

546

00:24:16,520 --> 00:24:14,970

actually because I noticed on the cover

547

00:24:18,380 --> 00:24:16,530

looks like they've got some actor to

548

00:24:21,260 --> 00:24:18,390

play Charles Darwin and it almost looks

549

00:24:23,050 --> 00:24:21,270

like a documentary I suppose it is in a

550

00:24:26,600 --> 00:24:23,060

way but it was on the same shot as he

551  
00:24:29,690 --> 00:24:26,610  
expelled well at least it's in with

552  
00:24:32,690 --> 00:24:29,700  
birds of a feather that's right so but

553  
00:24:34,370 --> 00:24:32,700  
that's magic expelled also includes the

554  
00:24:36,590 --> 00:24:34,380  
idea that the Cambrian explosion is this

555  
00:24:38,810 --> 00:24:36,600  
great problem for evolution probably I

556  
00:24:41,360 --> 00:24:38,820  
have watched it but I sort of erase it

557  
00:24:44,540 --> 00:24:41,370  
from my mind but is it's an interesting

558  
00:24:46,430 --> 00:24:44,550  
tech they're taking now to UM to do

559  
00:24:50,240 --> 00:24:46,440  
something like this to create a notice

560  
00:24:52,700 --> 00:24:50,250  
what looks like a historical drama /

561  
00:24:57,470 --> 00:24:52,710  
documentary about Charles Darwin however

562  
00:24:58,850 --> 00:24:57,480  
basically bagging what he did well

563  
00:25:00,020 --> 00:24:58,860

that's free speech I'm all for free

564

00:25:01,580 --> 00:25:00,030

speech there's one thing I'm a

565

00:25:06,290 --> 00:25:01,590

fundamentalist about it's free speech

566

00:25:08,210 --> 00:25:06,300

they certainly can have the right to to

567

00:25:10,550 --> 00:25:08,220

express their opinions on these matters

568

00:25:12,320 --> 00:25:10,560

that's right i mean do you know what we

569

00:25:15,380 --> 00:25:12,330

need is more speech to counter it that's

570

00:25:16,730 --> 00:25:15,390

all and and as was chatting i'm having a

571

00:25:18,620 --> 00:25:16,740

nice cup of coffee from this very

572

00:25:21,020 --> 00:25:18,630

interesting coffee mug that you ver

573

00:25:23,090 --> 00:25:21,030

indeed that i purchased mind you you've

574

00:25:24,710 --> 00:25:23,100

purchased it was on sale it's from a

575

00:25:26,750 --> 00:25:24,720

museum i'll have you have you know

576

00:25:28,390 --> 00:25:26,760

listeners so it's very good it's got it

577

00:25:30,350 --> 00:25:28,400

it's from a museum it's got a

578

00:25:32,980 --> 00:25:30,360

triceratops a very nice looking

579

00:25:35,810 --> 00:25:32,990

Triceratops has a wonderful quality

580

00:25:38,510 --> 00:25:35,820

creation museum indeed prepare to

581

00:25:41,630 --> 00:25:38,520

believe Genesis 11 that says and the

582

00:25:44,330 --> 00:25:41,640

riding on it seems to be oh yes let the

583

00:25:47,690 --> 00:25:44,340

waters let the God and things endless

584

00:25:50,810 --> 00:25:47,700

bit faint the earth was and the dinosaur

585

00:25:53,540 --> 00:25:50,820

covers up half the words but this is

586

00:25:56,960 --> 00:25:53,550

from the creation museum in in Kentucky

587

00:26:01,160 --> 00:25:56,970

and you had a nice time Abbas's unit yes

588

00:26:05,180 --> 00:26:01,170

I visited the creation museum in oak

589

00:26:07,160 --> 00:26:05,190

ashwin was that now is that how quickly

590

00:26:12,110 --> 00:26:07,170

they forget you and I guess it was with

591

00:26:14,410 --> 00:26:12,120

the image recently there was a North

592

00:26:18,890 --> 00:26:14,420

American paleontological conference

593

00:26:21,260 --> 00:26:18,900

meeting in Cincinnati and one of the

594

00:26:24,130 --> 00:26:21,270

field trips that the organizers of the

595

00:26:26,450 --> 00:26:24,140

conference decided upon was just to go

596

00:26:29,270 --> 00:26:26,460

around the corner so to speak to the

597

00:26:32,660 --> 00:26:29,280

creation museum which was located just

598

00:26:34,790 --> 00:26:32,670

about 15 miles away and so a couple of

599

00:26:36,220 --> 00:26:34,800

busloads of paleontologist showed up at

600

00:26:39,350 --> 00:26:36,230

the creation museum and it was a

601  
00:26:41,080 --> 00:26:39,360  
wonderful experience the press loved it

602  
00:26:44,210 --> 00:26:41,090  
by the way you can find plenty of

603  
00:26:45,830 --> 00:26:44,220  
coverage of this because and I was all

604  
00:26:47,270 --> 00:26:45,840  
for it I thought this was a wonderfully

605  
00:26:50,120 --> 00:26:47,280  
educational experience for the

606  
00:26:54,190 --> 00:26:50,130  
paleontology because they really need to

607  
00:26:56,810 --> 00:26:54,200  
see what what was being presented to the

608  
00:26:59,030 --> 00:26:56,820  
citizens there if I might make a quick

609  
00:27:03,380 --> 00:26:59,040  
point not to interrupt your flow of

610  
00:27:06,110 --> 00:27:03,390  
conversation the I encourage skeptics to

611  
00:27:08,000 --> 00:27:06,120  
visit for example New Age festivals

612  
00:27:09,530 --> 00:27:08,010  
right you have to know what I'm talking

613  
00:27:10,790 --> 00:27:09,540

about you have to know what the other

614

00:27:13,340 --> 00:27:10,800

people are thinking and what they're

615

00:27:15,380 --> 00:27:13,350

peddling and what they're doing so I

616

00:27:17,390 --> 00:27:15,390

that was a marvelous idea mm-hmm we

617

00:27:22,039 --> 00:27:17,400

carry on indeed well there you have it

618

00:27:26,180 --> 00:27:22,049

and I did I bought some books for our

619

00:27:30,020 --> 00:27:26,190

library of course and but I I just had

620

00:27:32,390 --> 00:27:30,030

to buy a mug we we have a quite a quite

621

00:27:35,630 --> 00:27:32,400

a good assortment of of mugs here at NC

622

00:27:37,220 --> 00:27:35,640

SC in our kitchen and this one was on

623

00:27:38,930 --> 00:27:37,230

sale it was being remaindered and

624

00:27:40,730 --> 00:27:38,940

clearance so I didn't want to spend

625

00:27:42,440 --> 00:27:40,740

whole life yeah that's so i bought a

626

00:27:44,750 --> 00:27:42,450

clearance mug it was quite attractive

627

00:27:46,220 --> 00:27:44,760

it's really not very nice i were kind of

628

00:27:48,919 --> 00:27:46,230

big dinosaur fans around it's a nice

629

00:27:50,659 --> 00:27:48,929

deep much it is indeed it said good

630

00:27:53,840 --> 00:27:50,669

quality and a good quality my very good

631

00:27:55,870 --> 00:27:53,850

quality in fact pride of place and what

632

00:27:58,580 --> 00:27:55,880

did you think of the creation you see

633

00:28:01,610 --> 00:27:58,590

well I had a pretty good idea what I was

634

00:28:04,760 --> 00:28:01,620

going to see because one of our NCSE

635

00:28:07,730 --> 00:28:04,770

members Stan Phelps had done an

636

00:28:10,100 --> 00:28:07,740

exceedingly thorough tour had literally

637

00:28:12,830 --> 00:28:10,110

photographed every bit of signage in the

638

00:28:14,899 --> 00:28:12,840

museum he done a fabulous job and every

639

00:28:18,950 --> 00:28:14,909

single exhibit and had written up an

640

00:28:20,390 --> 00:28:18,960

extraordinarily detailed tour and had

641

00:28:23,090 --> 00:28:20,400

posted the whole shootin match on her

642

00:28:26,840 --> 00:28:23,100

website so I pretty much know what was

643

00:28:30,980 --> 00:28:26,850

there it it's the kind of traditional

644

00:28:34,700 --> 00:28:30,990

creation science I knew that it was very

645

00:28:39,970 --> 00:28:34,710

high quality exhibits the animatronic

646

00:28:43,909 --> 00:28:39,980

dinosaurs were first rate I mean the

647

00:28:46,190 --> 00:28:43,919

videos that they projected in the video

648

00:28:51,140 --> 00:28:46,200

screening rooms were you know very

649

00:28:54,200 --> 00:28:51,150

nicely done there there was a great deal

650

00:28:57,590 --> 00:28:54,210

more religious proselytizing that I

651  
00:29:00,169 --> 00:28:57,600  
anticipated I mean I knew that you know

652  
00:29:03,740 --> 00:29:00,179  
the whole purpose of this museum

653  
00:29:05,630 --> 00:29:03,750  
obviously was to try to bring people to

654  
00:29:07,240 --> 00:29:05,640  
their particular religious perspective

655  
00:29:11,180 --> 00:29:07,250  
again that's another free speech issue

656  
00:29:13,520 --> 00:29:11,190  
freedom of religion and of course the

657  
00:29:16,570 --> 00:29:13,530  
the the science is sort of a way of

658  
00:29:19,450 --> 00:29:16,580  
trying to bring them to that perspective

659  
00:29:22,360 --> 00:29:19,460  
but it was really quite heavy handed

660  
00:29:24,430 --> 00:29:22,370  
and I think had I been a religious

661  
00:29:28,269 --> 00:29:24,440  
person I might have been offended in

662  
00:29:30,639 --> 00:29:28,279  
fact the scientists who were on the trip

663  
00:29:34,990 --> 00:29:30,649

who were religious were very offended

664

00:29:39,519 --> 00:29:35,000

because their religious views were were

665

00:29:41,830 --> 00:29:39,529

being sometimes directly and certainly

666

00:29:44,019 --> 00:29:41,840

indirectly criticized as not being pure

667

00:29:47,010 --> 00:29:44,029

enough so oh yes yes yes yes I've seen

668

00:29:49,510 --> 00:29:47,020

that before with the relation astir will

669

00:29:53,740 --> 00:29:49,520

insufficiently did not only against

670

00:29:56,169 --> 00:29:53,750

martyr Christians yeah and it was sort

671

00:29:58,810 --> 00:29:56,179

of like you you you really have to heal

672

00:30:00,460 --> 00:29:58,820

very very closely to a a biblical

673

00:30:02,710 --> 00:30:00,470

literalist point of view otherwise you

674

00:30:05,919 --> 00:30:02,720

are not being you know a proper

675

00:30:07,980 --> 00:30:05,929

Christian and as I say the the

676  
00:30:13,690 --> 00:30:07,990  
scientists who were people of faith who

677  
00:30:16,060 --> 00:30:13,700  
attended were offended by that and but

678  
00:30:18,000 --> 00:30:16,070  
of course all of the scientists whether

679  
00:30:20,950 --> 00:30:18,010  
they were religious or non-religious

680  
00:30:22,810 --> 00:30:20,960  
were affected by the quality of it but

681  
00:30:26,769 --> 00:30:22,820  
by the distortions of the science that

682  
00:30:29,500 --> 00:30:26,779  
was presented and the idea that I mean

683  
00:30:32,680 --> 00:30:29,510  
these were scientists who had spent

684  
00:30:35,380 --> 00:30:32,690  
their lives trying very hard to

685  
00:30:37,990 --> 00:30:35,390  
understand nature and it's not easy I

686  
00:30:40,630 --> 00:30:38,000  
mean I mean Nature doesn't just sit

687  
00:30:43,360 --> 00:30:40,640  
there and say okay here's the answer you

688  
00:30:45,870 --> 00:30:43,370

have to in something the cases of these

689

00:30:48,940 --> 00:30:45,880

paleontologists literally dig it out and

690

00:30:51,250 --> 00:30:48,950

you get you go down blind alleys

691

00:30:53,289 --> 00:30:51,260

sometimes and sometimes it's three steps

692

00:30:55,360 --> 00:30:53,299

backwards and two steps forward maybe a

693

00:30:57,820 --> 00:30:55,370

step to the side and you kind of muddle

694

00:31:00,070 --> 00:30:57,830

around a bit and sometimes you work for

695

00:31:02,350 --> 00:31:00,080

years before you actually stumble upon

696

00:31:04,210 --> 00:31:02,360

the right answer and and now all of a

697

00:31:07,990 --> 00:31:04,220

sudden this is being treated in a very

698

00:31:10,480 --> 00:31:08,000

Cavalier fashion yes as if these

699

00:31:12,820 --> 00:31:10,490

conclusions don't really matter because

700

00:31:15,159 --> 00:31:12,830

well after all they don't agree with the

701  
00:31:17,260 --> 00:31:15,169  
revealed true with these people's

702  
00:31:20,500 --> 00:31:17,270  
interpretation of the revealed truth of

703  
00:31:23,139 --> 00:31:20,510  
the Bible and I think that was offensive

704  
00:31:26,830 --> 00:31:23,149  
to every scientist there just the the

705  
00:31:30,490 --> 00:31:26,840  
general the general putting down of the

706  
00:31:33,430 --> 00:31:30,500  
scientific procedures that resulted in

707  
00:31:35,350 --> 00:31:33,440  
the consensus view that we all held

708  
00:31:37,810 --> 00:31:35,360  
scientists going there which was yes

709  
00:31:39,490 --> 00:31:37,820  
there's lots of evidence that living

710  
00:31:41,379 --> 00:31:39,500  
things that had common ancestors we all

711  
00:31:43,690 --> 00:31:41,389  
agreed upon that but that was being

712  
00:31:46,389 --> 00:31:43,700  
totally dismissed from this institution

713  
00:31:48,460 --> 00:31:46,399

was there much stifled laughter or just

714

00:31:51,909 --> 00:31:48,470

discussed everybody was very polite

715

00:31:53,590 --> 00:31:51,919

everybody was very polite there was a l

716

00:31:57,310 --> 00:31:53,600

mean because there were many other

717

00:31:59,590 --> 00:31:57,320

people there as well and you know all

718

00:32:03,730 --> 00:31:59,600

the paleontologists were and around

719

00:32:06,159 --> 00:32:03,740

their best behavior I think amongst

720

00:32:07,629 --> 00:32:06,169

ourselves and you know if we were the

721

00:32:09,549 --> 00:32:07,639

only people in the room I think there

722

00:32:10,899 --> 00:32:09,559

certainly were some sort of comments to

723

00:32:14,669 --> 00:32:10,909

one another and certain amount of eye

724

00:32:17,769 --> 00:32:14,679

rolling yeah but I didn't see anybody

725

00:32:19,509 --> 00:32:17,779

it's certainly nobody created a fuss or

726

00:32:21,549 --> 00:32:19,519

anything like that nobody nobody had to

727

00:32:24,340 --> 00:32:21,559

be thrown out I mean everybody was

728

00:32:27,190 --> 00:32:24,350

behaving properly well that's good um so

729

00:32:29,320 --> 00:32:27,200

you found the coffee mug in the gift

730

00:32:31,149 --> 00:32:29,330

shop India oh the gift shop just tell me

731

00:32:34,029 --> 00:32:31,159

about man the gift shop was bigger in my

732

00:32:38,830 --> 00:32:34,039

office I don't mean this little office I

733

00:32:40,779 --> 00:32:38,840

mean my whole life yes it it was really

734

00:32:44,230 --> 00:32:40,789

quite quite the place yeah yeah that's

735

00:32:46,629 --> 00:32:44,240

what do they have oh they had it looked

736

00:32:48,580 --> 00:32:46,639

like a big library I mean they had lots

737

00:32:51,879 --> 00:32:48,590

of books they had lots of knickknacks

738

00:32:55,299 --> 00:32:51,889

they have toys they had games they had

739

00:32:58,899 --> 00:32:55,309

videos they had plenty more mugs they

740

00:33:02,289 --> 00:32:58,909

had lots and lots of stuff all kinds of

741

00:33:04,659 --> 00:33:02,299

stuff oh I admitted I was amusing you

742

00:33:07,690 --> 00:33:04,669

could get ties you could get all sorts

743

00:33:12,820 --> 00:33:07,700

of wonderful items I actually ended up

744

00:33:15,610 --> 00:33:12,830

buying a whole sampler a box of books my

745

00:33:18,340 --> 00:33:15,620

my in our archivist was just overjoyed

746

00:33:20,909 --> 00:33:18,350

that we got this whole sampler box of

747

00:33:24,310 --> 00:33:20,919

educational materials there yes

748

00:33:26,350 --> 00:33:24,320

creationist I and that would be oh yeah

749

00:33:28,389 --> 00:33:26,360

it's a i'm good i don't buy one of those

750

00:33:33,509 --> 00:33:28,399

i've been the last time that has a crop

751

00:33:35,789 --> 00:33:33,519

circles on it ah how wonderful ebay

752

00:33:38,830 --> 00:33:35,799

creationist one would be quite funny

753

00:33:42,190 --> 00:33:38,840

have you seen Richard Dawkins croco duct

754

00:33:44,159 --> 00:33:42,200

I know I well I I haven't actually said

755

00:33:46,440 --> 00:33:44,169

this to anyone but when

756

00:33:49,379 --> 00:33:46,450

see Richard was in town i guess it was

757

00:33:51,720 --> 00:33:49,389

in october he was doing a fundraiser and

758

00:33:55,499 --> 00:33:51,730

for the foundation and Silicon Valley

759

00:33:59,789 --> 00:33:55,509

and also but he was he had been in

760

00:34:03,899 --> 00:33:59,799

Southern California for the meeting of

761

00:34:06,149 --> 00:34:03,909

the AI mean but anyway so he came by and

762

00:34:08,129 --> 00:34:06,159

I had invited him to stop by because I

763

00:34:09,629 --> 00:34:08,139

thought he might like to meet staff and

764

00:34:14,159 --> 00:34:09,639

staff could meet him and that would be

765

00:34:15,539 --> 00:34:14,169

fun so he he showed up and I we were

766

00:34:18,089 --> 00:34:15,549

having a staff meeting it and you've

767

00:34:19,500 --> 00:34:18,099

seen our our staff table there and I

768

00:34:21,780 --> 00:34:19,510

looked out the door and I said well Oh

769

00:34:24,270 --> 00:34:21,790

in the doorbell rang and I looked out

770

00:34:25,740 --> 00:34:24,280

the window and the door was glass and I

771

00:34:27,569 --> 00:34:25,750

said well there's Richard oh god he's

772

00:34:29,700 --> 00:34:27,579

wearing a horrible-looking died I

773

00:34:31,740 --> 00:34:29,710

couldn't help you know and everybody

774

00:34:34,649 --> 00:34:31,750

laughed and Richard walked in and it was

775

00:34:36,659 --> 00:34:34,659

this god-awful tie was this white tie

776

00:34:38,490 --> 00:34:36,669

and it had these big yellow splotches

777

00:34:40,770 --> 00:34:38,500

all over to thought where I mean

778

00:34:43,109 --> 00:34:40,780

ordinarily Richard is just impeccably

779

00:34:44,879 --> 00:34:43,119

dressed he was very nice suits he's very

780

00:34:47,760 --> 00:34:44,889

well-groomed and and it was wearing this

781

00:34:49,169 --> 00:34:47,770

god-awful tie and he sat down it when it

782

00:34:51,180 --> 00:34:49,179

got close enough it and we all just

783

00:34:52,680 --> 00:34:51,190

roared because of this croco death tie

784

00:34:54,690 --> 00:34:52,690

it was hysterically funny well

785

00:34:58,530 --> 00:34:54,700

apparently there's only two croco duck

786

00:35:00,120 --> 00:34:58,540

ties in the universe who the good old

787

00:35:03,210 --> 00:35:00,130

internet again apparently you can you

788

00:35:04,530 --> 00:35:03,220

can give a pattern to some company on

789

00:35:06,539 --> 00:35:04,540

the internet and they will make you a

790

00:35:10,740 --> 00:35:06,549

custom tie and there's apparently only

791

00:35:13,680 --> 00:35:10,750

two and PZ Myers has one and richard has

792

00:35:17,069 --> 00:35:13,690

one but really you only want to wear

793

00:35:19,109 --> 00:35:17,079

them among friends really an absolutely

794

00:35:21,839 --> 00:35:19,119

horrible looking tie in terms of

795

00:35:23,789 --> 00:35:21,849

anything but it's the wonderful Crocodoc

796

00:35:28,049 --> 00:35:23,799

with the that they're really nicely

797

00:35:30,569 --> 00:35:28,059

drawn one with the the worthy the scales

798

00:35:32,430 --> 00:35:30,579

of the crocodile hill had really blend

799

00:35:34,260 --> 00:35:32,440

nicely into the body of the doc they're

800

00:35:36,900 --> 00:35:34,270

really high quality one excellent

801  
00:35:38,339 --> 00:35:36,910  
excellent art I'm just have myself I can

802  
00:35:41,460 --> 00:35:38,349  
find a picture that that sounds

803  
00:35:43,480 --> 00:35:41,470  
fantastic but this was pretty funny but

804  
00:35:46,840 --> 00:35:43,490  
I quite like your you

805  
00:35:49,000 --> 00:35:46,850  
logo oh yes change i'm not sure we do we

806  
00:35:51,040 --> 00:35:49,010  
do with the since your last visit that's

807  
00:35:52,120 --> 00:35:51,050  
Jess your change you know it was changed

808  
00:35:54,430 --> 00:35:52,130  
or something because I noticed when we

809  
00:35:56,650 --> 00:35:54,440  
came to the door there cranked we

810  
00:35:59,109 --> 00:35:56,660  
changed our logo it was just about a

811  
00:36:01,210 --> 00:35:59,119  
year ago when we changed our website and

812  
00:36:04,530 --> 00:36:01,220  
and we sort of you know I thought is

813  
00:36:11,500 --> 00:36:04,540

very soon yeah yeah our website needed a

814

00:36:13,810 --> 00:36:11,510

as one of my under 20 staff members said

815

00:36:15,460 --> 00:36:13,820

you know when we started this process

816

00:36:25,000 --> 00:36:15,470

about two years ago she said you know

817

00:36:27,580 --> 00:36:25,010

our website is so 1990s okay well and

818

00:36:31,480 --> 00:36:27,590

yes yes I understood what that meant so

819

00:36:33,700 --> 00:36:31,490

so we we did indeed have to our website

820

00:36:36,730 --> 00:36:33,710

really needed a facelift and it needed

821

00:36:38,770 --> 00:36:36,740

refreshing and it needed some some back

822

00:36:46,320 --> 00:36:38,780

door plumbing that to make it more

823

00:36:49,450 --> 00:36:46,330

usable and so we we we hired a designer

824

00:36:52,870 --> 00:36:49,460

who just did a wonderful wonderful job

825

00:36:54,970 --> 00:36:52,880

and we it took a long time to really

826

00:36:57,880 --> 00:36:54,980

think through how we wanted to redesign

827

00:36:59,920 --> 00:36:57,890

it and reorganize it and then as part of

828

00:37:01,660 --> 00:36:59,930

that of course we we'd been thinking for

829

00:37:04,540 --> 00:37:01,670

a long time that we needed a new logo

830

00:37:06,820 --> 00:37:04,550

because nobody could really identify the

831

00:37:09,460 --> 00:37:06,830

old you know sort of squash spider that

832

00:37:14,050 --> 00:37:09,470

we had there didn't and so we actually

833

00:37:15,880 --> 00:37:14,060

had a contest to suggest a new logo and

834

00:37:17,800 --> 00:37:15,890

we we suggested something having to do

835

00:37:22,180 --> 00:37:17,810

with trees because evolution is all

836

00:37:25,210 --> 00:37:22,190

about trees of course right and that the

837

00:37:29,560 --> 00:37:25,220

did you extra gold star if you recognize

838

00:37:32,680 --> 00:37:29,570

our logo directly yes did our logo speak

839

00:37:34,780 --> 00:37:32,690

to you my friend oh I'm going to miss

840

00:37:36,490 --> 00:37:34,790

out on that gold star naughty in the

841

00:37:39,970 --> 00:37:36,500

gold star where's that where is it let

842

00:37:41,740 --> 00:37:39,980

me well let's see I can provide that too

843

00:37:43,540 --> 00:37:41,750

pretty quick oops that's the old one no

844

00:37:46,960 --> 00:37:43,550

the old 1s the old man you saw a bit

845

00:37:48,940 --> 00:37:46,970

there we go tada oh my gosh no I take

846

00:37:54,099 --> 00:37:48,950

out your glasses let's have a look all

847

00:37:55,930 --> 00:37:54,109

right he's looking now that I'm very

848

00:37:56,920 --> 00:37:55,940

kiss telling it very careful to see the

849

00:38:06,010 --> 00:37:56,930

tree

850

00:38:07,630 --> 00:38:06,020

special year I'm giving him lots of

851  
00:38:09,640 --> 00:38:07,640  
hints you you are giving me lots of him

852  
00:38:11,920 --> 00:38:09,650  
I'm gonna have to have is a very special

853  
00:38:14,049 --> 00:38:11,930  
year because I a particularly important

854  
00:38:17,950 --> 00:38:14,059  
person was born two hundred years well

855  
00:38:19,750 --> 00:38:17,960  
I'm gathering that but I'm so funny that

856  
00:38:22,750 --> 00:38:19,760  
you left it you have to that was the

857  
00:38:25,900 --> 00:38:22,760  
first tree so to speak that was the

858  
00:38:29,920 --> 00:38:25,910  
sketch of a tree that Darwin sketched

859  
00:38:32,559 --> 00:38:29,930  
out in one of his early notebooks of

860  
00:38:36,370 --> 00:38:32,569  
course yeah not regulation will give you

861  
00:38:38,829 --> 00:38:36,380  
a Silver Star I guess a slightly aki

862  
00:38:40,990 --> 00:38:38,839  
mechanic it's a slightly stylized

863  
00:38:44,309 --> 00:38:41,000

version of it but it's it's basically

864

00:38:46,120 --> 00:38:44,319

darwin by striking i quite like it yeah

865

00:38:50,890 --> 00:38:46,130

National Center for Science Education

866

00:38:53,049 --> 00:38:50,900

and the website of course is wwan SI SE

867

00:38:55,599 --> 00:38:53,059

kaam which is very easy to remember

868

00:38:58,630 --> 00:38:55,609

indeed although i've seem to have

869

00:39:00,819 --> 00:38:58,640

trouble her memory chip um now you're

870

00:39:06,849 --> 00:39:00,829

the National Center for Science

871

00:39:11,770 --> 00:39:06,859

Education is how old don't well we were

872

00:39:14,920 --> 00:39:11,780

incorporated in 1983 okay and I've been

873

00:39:19,180 --> 00:39:14,930

the director since 1987 and how is the

874

00:39:21,099 --> 00:39:19,190

last year fed for the the center well it

875

00:39:24,370 --> 00:39:21,109

were a nonprofit organization so that

876

00:39:27,309 --> 00:39:24,380

means every year we have to you know we

877

00:39:33,039 --> 00:39:27,319

we have to raise money so you can join

878

00:39:35,770 --> 00:39:33,049

online at that ends ESET com site that's

879

00:39:38,049 --> 00:39:35,780

the one but as far as your activities go

880

00:39:40,750 --> 00:39:38,059

and your outreach in your battles hasn't

881

00:39:42,640 --> 00:39:40,760

been a good year well a good year would

882

00:39:44,079 --> 00:39:42,650

be no activity at all so in that sense

883

00:39:47,920 --> 00:39:44,089

it hasn't been a good year we've been

884

00:39:50,440 --> 00:39:47,930

very busy next year actually it's coming

885

00:39:52,299 --> 00:39:50,450

to January which in the United States is

886

00:39:54,880 --> 00:39:52,309

the beginning of the legislative season

887

00:39:57,370 --> 00:39:54,890

the state legislatures are going to be

888

00:40:00,039 --> 00:39:57,380

coming into session again we anticipate

889

00:40:01,420 --> 00:40:00,049

a number of bills will be filed we some

890

00:40:04,510 --> 00:40:01,430

have already been pre-filed that we're

891

00:40:07,539 --> 00:40:04,520

watching to propose what are called

892

00:40:10,510 --> 00:40:07,549

academic freedom was academic freedom

893

00:40:10,720 --> 00:40:10,520

acts and these are laws that attempt to

894

00:40:13,270 --> 00:40:10,730

burr

895

00:40:15,700 --> 00:40:13,280

in creationism enter the back door they

896

00:40:18,099 --> 00:40:15,710

don't know very sneaky region us aren't

897

00:40:20,470 --> 00:40:18,109

stupid you know and and they learned

898

00:40:22,090 --> 00:40:20,480

long ago that you can't bring

899

00:40:25,990 --> 00:40:22,100

creationism in through the front door

900

00:40:28,240 --> 00:40:26,000

you can't because of our legal our First

901  
00:40:31,570 --> 00:40:28,250  
Amendment separating church and state

902  
00:40:35,080 --> 00:40:31,580  
you can't you can't promote religion

903  
00:40:37,180 --> 00:40:35,090  
directly in the schools you have to be

904  
00:40:39,849 --> 00:40:37,190  
religiously neutral in a public school

905  
00:40:43,480 --> 00:40:39,859  
so you can't bring in creationism or

906  
00:40:45,730 --> 00:40:43,490  
intelligent design so what they try to

907  
00:40:49,090 --> 00:40:45,740  
do is bring in through these academic

908  
00:40:55,330 --> 00:40:49,100  
freedom X bring in all the explanations

909  
00:40:57,640 --> 00:40:55,340  
or particularly interesting with some of

910  
00:41:00,599 --> 00:40:57,650  
these academic freedom acts the argument

911  
00:41:03,580 --> 00:41:00,609  
is being made to just attack evolution

912  
00:41:05,740 --> 00:41:03,590  
so you bring in the strengths and

913  
00:41:08,590 --> 00:41:05,750

weaknesses of evolution or a critical

914

00:41:10,720 --> 00:41:08,600

analysis of evolution or there's a whole

915

00:41:13,870 --> 00:41:10,730

list of euphemisms that they use for

916

00:41:16,120 --> 00:41:13,880

this sort of thing and of course if you

917

00:41:17,590 --> 00:41:16,130

go to the science community and they say

918

00:41:20,590 --> 00:41:17,600

well can I please have the list of

919

00:41:23,020 --> 00:41:20,600

arguments against evolution there aren't

920

00:41:25,000 --> 00:41:23,030

any and the only place where you find

921

00:41:26,770 --> 00:41:25,010

that the strengths and weaknesses of

922

00:41:30,940 --> 00:41:26,780

evolutionism from the creationists of

923

00:41:32,950 --> 00:41:30,950

course so this is a restful for this

924

00:41:35,800 --> 00:41:32,960

they all teach both sides always the

925

00:41:38,290 --> 00:41:35,810

balance or this side note it's it's yeah

926  
00:41:42,010 --> 00:41:38,300  
it's a very common and a very attractive

927  
00:41:44,140 --> 00:41:42,020  
finish it sounds famous its fairness is

928  
00:41:46,540 --> 00:41:44,150  
a is always sells very well in

929  
00:41:50,380 --> 00:41:46,550  
democratic countries yes and you know

930  
00:41:52,660 --> 00:41:50,390  
i'm all for fairness but what is fair is

931  
00:41:54,910 --> 00:41:52,670  
for the creationist to demonstrate

932  
00:41:57,130 --> 00:41:54,920  
they've actually got a science and then

933  
00:42:01,540 --> 00:41:57,140  
they have a right to be taught but it's

934  
00:42:03,609 --> 00:42:01,550  
not fair for them to argue that they

935  
00:42:05,950 --> 00:42:03,619  
have a right to be taught without making

936  
00:42:08,230 --> 00:42:05,960  
that demonstration first and they have

937  
00:42:11,170 --> 00:42:08,240  
not demonstrated that they have a way of

938  
00:42:12,840 --> 00:42:11,180

understanding nature hmm and until they

939

00:42:15,730 --> 00:42:12,850

do they don't have a right to be taught

940

00:42:17,290 --> 00:42:15,740

as long as as long as there's the

941

00:42:17,920 --> 00:42:17,300

national scent of science education

942

00:42:20,230 --> 00:42:17,930

people

943

00:42:23,440 --> 00:42:20,240

Eugenie Scott out there batting for our

944

00:42:25,270 --> 00:42:23,450

side so to speak with our allies yeah

945

00:42:26,770 --> 00:42:25,280

it's giving them a hard time I think we

946

00:42:29,740 --> 00:42:26,780

can all rest a little bit at night but

947

00:42:32,200 --> 00:42:29,750

the fight certainly goes on well it's

948

00:42:34,359 --> 00:42:32,210

like the Red Queen we are running as

949

00:42:36,670 --> 00:42:34,369

hard as we can to stay just a little bit

950

00:42:38,890 --> 00:42:36,680

ahead Gina Scott thank you very much

951  
00:42:54,460 --> 00:42:38,900  
thank you it's always a lot of fun to

952  
00:42:56,559 --> 00:42:54,470  
talk to hi I'm dr. Stefan Soyka from the

953  
00:42:58,839 --> 00:42:56,569  
MIT of vibrational galactic atomic

954  
00:43:01,180 --> 00:42:58,849  
health institute for applied wellness

955  
00:43:03,609 --> 00:43:01,190  
and I'm here to tell you about what is

956  
00:43:06,010 --> 00:43:03,619  
probably the greatest medical discovery

957  
00:43:08,349 --> 00:43:06,020  
to have manifested in any of the lower

958  
00:43:11,500 --> 00:43:08,359  
five or six dimensions since the dawn of

959  
00:43:15,220 --> 00:43:11,510  
the first astrological age introducing

960  
00:43:18,010 --> 00:43:15,230  
the life wire the life wire is nothing

961  
00:43:20,680 --> 00:43:18,020  
less than a miracle in metaphysical form

962  
00:43:22,960 --> 00:43:20,690  
attracting health akala T and will being

963  
00:43:24,609 --> 00:43:22,970

issued from every known point in the

964

00:43:27,099 --> 00:43:24,619

universe where health akala tea and

965

00:43:30,099 --> 00:43:27,109

well-being itude resides and delivering

966

00:43:32,319 --> 00:43:30,109

it straight to your body and soul the

967

00:43:35,200 --> 00:43:32,329

life wire harnesses scalar energy

968

00:43:37,960 --> 00:43:35,210

quantum energy solar energy and

969

00:43:39,880 --> 00:43:37,970

masculine bovine fecal energy in an

970

00:43:42,910 --> 00:43:39,890

advanced highly complex and

971

00:43:45,490 --> 00:43:42,920

incredulously simple process using a

972

00:43:47,799 --> 00:43:45,500

meticulously contrived blend of carbon

973

00:43:50,500 --> 00:43:47,809

and iron the carbonic and ionic

974

00:43:52,870 --> 00:43:50,510

particles resonate and vibrate to the

975

00:43:55,390 --> 00:43:52,880

atomic frequency bestowed upon them by

976

00:43:58,510 --> 00:43:55,400

the universe rendering the entire life

977

00:44:01,359 --> 00:43:58,520

wire construct a healing wand talisman

978

00:44:03,970 --> 00:44:01,369

charm or totem the life wire has been

979

00:44:06,609 --> 00:44:03,980

lovingly forged in China where the wire

980

00:44:09,309 --> 00:44:06,619

is set into its initial physical state

981

00:44:11,980 --> 00:44:09,319

by adherence of Confucianism Taoism

982

00:44:14,200 --> 00:44:11,990

Buddhism and Zoroastrianism a physical

983

00:44:16,599 --> 00:44:14,210

state that to the uneducated looks a lot

984

00:44:18,339 --> 00:44:16,609

like a paperclip the employees at our

985

00:44:21,339 --> 00:44:18,349

factory are paid as little as possible

986

00:44:23,140 --> 00:44:21,349

to ensure the philosophical purity of

987

00:44:25,240 --> 00:44:23,150

the life wire and that it is not

988

00:44:27,130 --> 00:44:25,250

tarnished by the material desires of

989

00:44:29,319 --> 00:44:27,140

those who are blessed with a privilege

990

00:44:30,160 --> 00:44:29,329

of bending the life wire into its phase

991

00:44:32,590 --> 00:44:30,170

one

992

00:44:35,080 --> 00:44:32,600

Eagle Forum in phase two the life were

993

00:44:37,570 --> 00:44:35,090

embarked on an odyssey traversing the

994

00:44:40,210 --> 00:44:37,580

globe initially in the back of a hiace

995

00:44:41,860 --> 00:44:40,220

van from Chizu in the Ann Hui province

996

00:44:44,020 --> 00:44:41,870

then into a shipping container in

997

00:44:46,150 --> 00:44:44,030

Shenzhen loaded onto a Norwegian

998

00:44:48,670 --> 00:44:46,160

registered cargo ship bound for Sydney

999

00:44:50,920 --> 00:44:48,680

Australia for its entire journey the

1000

00:44:53,530 --> 00:44:50,930

life wire not only picks up the Earth's

1001  
00:44:55,720 --> 00:44:53,540  
magnetic resonance but many powerful

1002  
00:44:57,940 --> 00:44:55,730  
properties and ancient race memories

1003  
00:44:59,790 --> 00:44:57,950  
collected via the belief systems of the

1004  
00:45:02,710 --> 00:44:59,800  
Filipino merchant seaman on board

1005  
00:45:05,440 --> 00:45:02,720  
Catholicism egli pianism iglesia ni

1006  
00:45:08,230 --> 00:45:05,450  
cristo ism and animism much like a metal

1007  
00:45:10,570 --> 00:45:08,240  
detector picks up gold on a beach phase

1008  
00:45:12,400 --> 00:45:10,580  
3 the life wire is hurled into the back

1009  
00:45:14,470 --> 00:45:12,410  
of a fedex pan by the Box load and

1010  
00:45:16,330 --> 00:45:14,480  
delivered using global positioning

1011  
00:45:18,100 --> 00:45:16,340  
system technology to the meta

1012  
00:45:20,320 --> 00:45:18,110  
vibrational galactic atomic Health

1013  
00:45:22,480 --> 00:45:20,330

Institute for applied will illness it is

1014

00:45:25,120 --> 00:45:22,490

right here at the Institute where each

1015

00:45:27,370 --> 00:45:25,130

life wire is individually processed and

1016

00:45:29,770 --> 00:45:27,380

charged with its infinite healing power

1017

00:45:31,960 --> 00:45:29,780

the final shape shifting of the physical

1018

00:45:34,120 --> 00:45:31,970

life wire form is done by innocent

1019

00:45:36,760 --> 00:45:34,130

children to guarantee you absolute

1020

00:45:39,310 --> 00:45:36,770

healing purity my nephew's unbend the

1021

00:45:41,560 --> 00:45:39,320

life wire into a four-sided obelisk I'd

1022

00:45:44,320 --> 00:45:41,570

structure with the two ends not quite

1023

00:45:47,140 --> 00:45:44,330

meeting this unfinished loop is the life

1024

00:45:48,700 --> 00:45:47,150

wise secret the two ends so much want to

1025

00:45:51,130 --> 00:45:48,710

touch each other that they channel

1026

00:45:53,440 --> 00:45:51,140

infinite energy in their infinite desire

1027

00:45:55,300 --> 00:45:53,450

to connect this longing is the same

1028

00:45:57,820 --> 00:45:55,310

longing that a mother feels for a lost

1029

00:45:59,890 --> 00:45:57,830

child a galaxy feels for its black hole

1030

00:46:02,050 --> 00:45:59,900

a methamphetamine addict hangs out for

1031

00:46:04,870 --> 00:46:02,060

grammar vice and your body yearns for

1032

00:46:07,120 --> 00:46:04,880

wellbeing ification and infinite pining

1033

00:46:09,850 --> 00:46:07,130

that both you and the live wires share

1034

00:46:13,030 --> 00:46:09,860

which is why you need to be together for

1035

00:46:15,640 --> 00:46:13,040

just 79 dollars 95 lat can be yours

1036

00:46:17,770 --> 00:46:15,650

channeling your every need and taking

1037

00:46:20,140 --> 00:46:17,780

the responsibility for everything you do

1038

00:46:22,450 --> 00:46:20,150

for you place one in your wallet to

1039

00:46:24,880 --> 00:46:22,460

attract wealth another on your computer

1040

00:46:27,070 --> 00:46:24,890

to stop spam and so another into your

1041

00:46:31,570 --> 00:46:27,080

underpants for more intense sexual

1042

00:46:33,490 --> 00:46:31,580

gratification and fertility every \$79.95

1043

00:46:34,930 --> 00:46:33,500

vibrational galactic atomic health

1044

00:46:37,150 --> 00:46:34,940

institute for applied wellness is

1045

00:46:39,250 --> 00:46:37,160

another touch point in a spacetime

1046

00:46:40,210 --> 00:46:39,260

continuum and another opportunity for

1047

00:46:42,849 --> 00:46:40,220

you to matter

1048

00:46:46,150 --> 00:46:42,859

the sum total of energy in the entire

1049

00:46:49,000 --> 00:46:46,160

universe in every cell of your body why

1050

00:46:51,880 --> 00:46:49,010

I transfer me your money and life wire

1051  
00:46:53,950 --> 00:46:51,890  
will transfer everything and by scalar

1052  
00:47:01,780 --> 00:46:53,960  
zero-point energy theory that means

1053  
00:47:07,020 --> 00:47:01,790  
nothing to you now it's time for dr.

1054  
00:47:12,130 --> 00:47:09,550  
hello listeners and welcome to dr.

1055  
00:47:14,710 --> 00:47:12,140  
Richie reports this week I tell you a

1056  
00:47:18,370 --> 00:47:14,720  
tale of blue-green algae attacking Birds

1057  
00:47:20,170 --> 00:47:18,380  
Hollywood and dementia now many

1058  
00:47:21,580 --> 00:47:20,180  
listeners especially our Australian

1059  
00:47:24,670 --> 00:47:21,590  
listeners would be familiar with

1060  
00:47:26,650 --> 00:47:24,680  
blue-green algae in particular if you

1061  
00:47:28,750 --> 00:47:26,660  
have spent any time in South Australia

1062  
00:47:30,910 --> 00:47:28,760  
you may recall periodic government

1063  
00:47:33,130 --> 00:47:30,920

alerts warning against drinking the

1064

00:47:36,280 --> 00:47:33,140

water or using it for recreation during

1065

00:47:38,830 --> 00:47:36,290

outbreaks our breaks are known as blooms

1066

00:47:41,290 --> 00:47:38,840

and they describe an increase in the

1067

00:47:43,480 --> 00:47:41,300

number of algal cells to a point where

1068

00:47:46,450 --> 00:47:43,490

they can discolor the water produce

1069

00:47:48,430 --> 00:47:46,460

unpleasant tastes and odors affect

1070

00:47:52,329 --> 00:47:48,440

shellfish and fish populations and

1071

00:47:54,790 --> 00:47:52,339

seriously reduce the water quality since

1072

00:47:57,099 --> 00:47:54,800

many types of algae produce toxins they

1073

00:47:58,690 --> 00:47:57,109

can also make you very sick and have

1074

00:48:02,800 --> 00:47:58,700

been responsible for the deaths of

1075

00:48:05,800 --> 00:48:02,810

livestock and marine species blue-green

1076

00:48:08,170 --> 00:48:05,810

algae is also known as cyanobacteria and

1077

00:48:10,750 --> 00:48:08,180

they are in fact photosynthesizing

1078

00:48:13,390 --> 00:48:10,760

bacteria which are green when they're

1079

00:48:16,690 --> 00:48:13,400

metabolizing and growing and turn bluish

1080

00:48:18,579 --> 00:48:16,700

when they are dying algal blooms occur

1081

00:48:21,220 --> 00:48:18,589

in all types of waterways and water

1082

00:48:24,550 --> 00:48:21,230

stores and bloom when nutrients and

1083

00:48:26,920 --> 00:48:24,560

light are high whilst not all species

1084

00:48:29,230 --> 00:48:26,930

which make up algal blooms are toxic

1085

00:48:33,190 --> 00:48:29,240

there is no way to know until you test

1086

00:48:35,470 --> 00:48:33,200

them so it is best to steer clear also

1087

00:48:38,230 --> 00:48:35,480

toxicity varies with the seasons and

1088

00:48:41,859 --> 00:48:38,240

environmental conditions the toxins

1089

00:48:44,230 --> 00:48:41,869

including domoic acid and B maae which

1090

00:48:46,800 --> 00:48:44,240

is a neurotoxin are released as the

1091

00:48:49,359 --> 00:48:46,810

bloom dies and the cells become leaky

1092

00:48:51,579 --> 00:48:49,369

domoic acid has been implicated in

1093

00:48:52,760 --> 00:48:51,589

serious food poisonings and even deaths

1094

00:48:56,260 --> 00:48:52,770

associated

1095

00:48:58,100 --> 00:48:56,270

shellfish poisoning and BMAA in

1096

00:49:01,660 --> 00:48:58,110

neurodegeneration such as Alzheimer's

1097

00:49:04,520 --> 00:49:01,670

disease Lou Gehrig's disease or ALS in

1098

00:49:06,530 --> 00:49:04,530

Australia toxicity associated with

1099

00:49:09,740 --> 00:49:06,540

blue-green algae has been documented as

1100

00:49:12,080 --> 00:49:09,750

far back as the 1850s were accounts by

1101  
00:49:14,210 --> 00:49:12,090  
European explorers and settlers contain

1102  
00:49:17,000 --> 00:49:14,220  
numerous references to scums or

1103  
00:49:19,010 --> 00:49:17,010  
discolored water the earliest documented

1104  
00:49:22,040 --> 00:49:19,020  
scientific evidence was published in

1105  
00:49:25,010 --> 00:49:22,050  
nature in 1878 in a paper called

1106  
00:49:27,110 --> 00:49:25,020  
poisonous australian lake the report

1107  
00:49:29,240 --> 00:49:27,120  
described a bloom floated to the lake

1108  
00:49:32,530 --> 00:49:29,250  
surface and was wafting to Lee Shores

1109  
00:49:35,240 --> 00:49:32,540  
forming a scum two to six inches thick

1110  
00:49:37,760 --> 00:49:35,250  
large numbers of livestock ingested the

1111  
00:49:40,820 --> 00:49:37,770  
scum via drinking including horses sheep

1112  
00:49:43,850 --> 00:49:40,830  
and cattle and later died and one woman

1113  
00:49:46,280 --> 00:49:43,860

became seriously ill the deaths and

1114

00:49:47,900 --> 00:49:46,290

publication of the nature paper created

1115

00:49:50,480 --> 00:49:47,910

a heightened awareness amongst the

1116

00:49:52,430 --> 00:49:50,490

public leading to warnings and police

1117

00:49:54,590 --> 00:49:52,440

troopers stationed at various points

1118

00:49:58,040 --> 00:49:54,600

along water bodies to warn of

1119

00:49:59,660 --> 00:49:58,050

approaching blooms but in Australia in

1120

00:50:02,810 --> 00:49:59,670

the summer of nineteen ninety one in

1121

00:50:04,760 --> 00:50:02,820

1992 an enormous bloom occurred in the

1122

00:50:07,670 --> 00:50:04,770

barwon darling river system in New South

1123

00:50:09,650 --> 00:50:07,680

Wales this bloom spread over an area

1124

00:50:12,260 --> 00:50:09,660

spanning a thousand kilometres and

1125

00:50:14,780 --> 00:50:12,270

remains today the world's largest algal

1126  
00:50:16,730 --> 00:50:14,790  
bloom but it's not only livestock and

1127  
00:50:19,820 --> 00:50:16,740  
humans who are at risk of illness when

1128  
00:50:22,250 --> 00:50:19,830  
exposed to algal blooms a very famous

1129  
00:50:24,800 --> 00:50:22,260  
case of sea life allegedly falling

1130  
00:50:28,940 --> 00:50:24,810  
victim to poisoning from algae occurred

1131  
00:50:33,770 --> 00:50:28,950  
in California USA in the early hours of

1132  
00:50:36,050 --> 00:50:33,780  
August 17 1961 residents of Santa Cruz

1133  
00:50:38,660 --> 00:50:36,060  
were invaded by a massive flight of

1134  
00:50:41,050 --> 00:50:38,670  
shearwaters slamming into their

1135  
00:50:44,120 --> 00:50:41,060  
homes and littering the streets in town

1136  
00:50:46,550 --> 00:50:44,130  
the santa cruz sentinel reported the

1137  
00:50:49,970 --> 00:50:46,560  
incident under the headline seabird

1138  
00:50:52,270 --> 00:50:49,980

invasion hits coastal homes when the

1139

00:50:54,530 --> 00:50:52,280

light of day made the area visible

1140

00:50:57,500 --> 00:50:54,540

residents found the street covered with

1141

00:50:59,720 --> 00:50:57,510

birds the birds disgorged bits of fish

1142

00:51:01,940 --> 00:50:59,730

and fish skeletons over the streets and

1143

00:51:04,820 --> 00:51:01,950

lawns and housetops living an

1144

00:51:06,470 --> 00:51:04,830

overpowering fishy stench several

1145

00:51:08,240 --> 00:51:06,480

theories exist as to the cause

1146

00:51:11,030 --> 00:51:08,250

of this mass destruction and death of

1147

00:51:12,890 --> 00:51:11,040

seabirds the first explanation was

1148

00:51:14,990 --> 00:51:12,900

offered at the time of the incident by

1149

00:51:18,290 --> 00:51:15,000

museum zoologist from the University of

1150

00:51:19,880 --> 00:51:18,300

California Ward Russell who proposed

1151  
00:51:22,550 --> 00:51:19,890  
that the birds were disturbed whilst

1152  
00:51:24,470 --> 00:51:22,560  
feeding became disorientated in heavy

1153  
00:51:26,870 --> 00:51:24,480  
fog that layered the coast that morning

1154  
00:51:28,820 --> 00:51:26,880  
and headed for the light of the town

1155  
00:51:32,780 --> 00:51:28,830  
including tortures held by curious

1156  
00:51:34,760 --> 00:51:32,790  
residents thus appearing to attack but

1157  
00:51:37,990 --> 00:51:34,770  
scientists now speculate that ingestion

1158  
00:51:40,610 --> 00:51:38,000  
of toxic algae may have played a role

1159  
00:51:42,890 --> 00:51:40,620  
what is known is that the incident

1160  
00:51:45,320 --> 00:51:42,900  
sparked the interest of an author across

1161  
00:51:48,560 --> 00:51:45,330  
the globe in Cornwall England whom

1162  
00:51:50,270 --> 00:51:48,570  
several years earlier in 1952 had also

1163  
00:51:53,750 --> 00:51:50,280

been attacked by birds but in a very

1164

00:51:56,480 --> 00:51:53,760

different scenario in an autobiography

1165

00:51:58,040 --> 00:51:56,490

of author Daphne du Mario called the

1166

00:52:01,070 --> 00:51:58,050

private world of Daphne du Maurier

1167

00:52:03,080 --> 00:52:01,080

author Martin Shawcross describes

1168

00:52:05,480 --> 00:52:03,090

demario was walking her dog by a lake

1169

00:52:07,850 --> 00:52:05,490

when two hungry seagulls attacked her

1170

00:52:11,060 --> 00:52:07,860

dog than her forcing her to seek shelter

1171

00:52:14,750 --> 00:52:11,070

under nearby tree the result was the

1172

00:52:18,590 --> 00:52:14,760

1952 short story the birds four days

1173

00:52:21,080 --> 00:52:18,600

after the 1961 shearwater incident

1174

00:52:23,930 --> 00:52:21,090

in Santa Cruz the Santa Cruz Sentinel

1175

00:52:26,120 --> 00:52:23,940

had another story to report Hollywood

1176

00:52:28,850 --> 00:52:26,130

mystery producer Alfred Hitchcock phoned

1177

00:52:30,590 --> 00:52:28,860

the Sentinel Saturday to let us know he

1178

00:52:32,630 --> 00:52:30,600

is using last Friday's edition as

1179

00:52:35,540 --> 00:52:32,640

research material for his latest

1180

00:52:37,250 --> 00:52:35,550

thriller apparently the movie version of

1181

00:52:39,950 --> 00:52:37,260

Demaryius book was already underway

1182

00:52:41,660 --> 00:52:39,960

under the supervision of Hitchcock but

1183

00:52:43,760 --> 00:52:41,670

the Santa Cruz incident may have

1184

00:52:46,160 --> 00:52:43,770

inspired him to change the location from

1185

00:52:50,030 --> 00:52:46,170

the quaint hills of Cornwall England to

1186

00:52:52,940 --> 00:52:50,040

Bodega Bay California where his 1963 the

1187

00:52:54,800 --> 00:52:52,950

birds thriller was eventually set so we

1188

00:52:56,900 --> 00:52:54,810

now know that blue-green algae can be

1189

00:53:00,290 --> 00:52:56,910

toxic to both humans and animals and in

1190

00:53:02,380 --> 00:53:00,300

some cases fatally sure it's natural but

1191

00:53:04,820 --> 00:53:02,390

this doesn't necessarily make it safe

1192

00:53:07,250 --> 00:53:04,830

cyanide is derived from the kernels of

1193

00:53:10,250 --> 00:53:07,260

apricots it's completely natural but it

1194

00:53:11,690 --> 00:53:10,260

will kill you the Ebola virus is also

1195

00:53:13,940 --> 00:53:11,700

natural but you will suffer an

1196

00:53:17,810 --> 00:53:13,950

excruciating death as your organs slough

1197

00:53:20,230 --> 00:53:17,820

out your orifices so as such it puzzles

1198

00:53:22,630 --> 00:53:20,240

me that you can buy cyanobacteria from

1199

00:53:26,730 --> 00:53:22,640

your local health food store in a powder

1200

00:53:29,350 --> 00:53:26,740

or tablet and marketed as spirulina

1201  
00:53:32,500 --> 00:53:29,360  
touted as a hundred percent pure and

1202  
00:53:34,570 --> 00:53:32,510  
natural nature's superfood and totally

1203  
00:53:37,420 --> 00:53:34,580  
natural product spirulina is

1204  
00:53:40,840 --> 00:53:37,430  
nevertheless blue-green algae meaning

1205  
00:53:42,820 --> 00:53:40,850  
contamination with BMAA domoic acid and

1206  
00:53:46,510 --> 00:53:42,830  
other toxins cannot be completely

1207  
00:53:49,800 --> 00:53:46,520  
discounted following the publishing of a

1208  
00:53:52,870 --> 00:53:49,810  
paper from the group of Paul Cox in 2005

1209  
00:53:56,290 --> 00:53:52,880  
which reported 30 types of cyanobacteria

1210  
00:53:58,660 --> 00:53:56,300  
were contaminated with BMAA the

1211  
00:54:01,120 --> 00:53:58,670  
spirulina industry went into overdrive

1212  
00:54:04,000 --> 00:54:01,130  
to ensure their customers that their

1213  
00:54:06,910 --> 00:54:04,010

products were safe several issued press

1214

00:54:10,630 --> 00:54:06,920

releases emphasizing correctly that the

1215

00:54:13,110 --> 00:54:10,640

Cox paper did not test spirulina one

1216

00:54:16,330 --> 00:54:13,120

company called cyano tech corporation

1217

00:54:19,300 --> 00:54:16,340

apparently approached Cox to test their

1218

00:54:21,550 --> 00:54:19,310

spirulina for BMAA to which they say he

1219

00:54:23,560 --> 00:54:21,560

did not respond the company then

1220

00:54:26,260 --> 00:54:23,570

enlisted the services of another

1221

00:54:30,100 --> 00:54:26,270

professor of Biological Sciences to test

1222

00:54:32,170 --> 00:54:30,110

their BMAA professor Carmichael reported

1223

00:54:34,450 --> 00:54:32,180

his findings confirming the absence of

1224

00:54:37,270 --> 00:54:34,460

detectable levels of the suspected

1225

00:54:40,180 --> 00:54:37,280

neurotoxin BMAA in cyano Tech's

1226  
00:54:42,340 --> 00:54:40,190  
spirulina specific up this is good news

1227  
00:54:45,010 --> 00:54:42,350  
for this batch of spirulina and for this

1228  
00:54:47,970 --> 00:54:45,020  
company but what about other producers

1229  
00:54:50,860 --> 00:54:47,980  
of spirulina as discussed earlier

1230  
00:54:53,650 --> 00:54:50,870  
biological variability dictate that

1231  
00:54:55,750 --> 00:54:53,660  
levels of toxins synthesized by

1232  
00:54:57,940 --> 00:54:55,760  
cyanobacteria are different from season

1233  
00:55:00,340 --> 00:54:57,950  
to season for some of their lifetime

1234  
00:55:03,940 --> 00:55:00,350  
blue-green algae may have no toxins

1235  
00:55:06,430 --> 00:55:03,950  
other times large quantities if I was a

1236  
00:55:09,490 --> 00:55:06,440  
consumer of spirulina I would want every

1237  
00:55:11,170 --> 00:55:09,500  
batch tested before I took it in another

1238  
00:55:14,290 --> 00:55:11,180

press release from Earth rise

1239

00:55:16,450 --> 00:55:14,300

nutritional they stated it should also

1240

00:55:19,420 --> 00:55:16,460

be pointed out that the connection

1241

00:55:23,020 --> 00:55:19,430

between BMAA and Alzheimer's disease is

1242

00:55:25,480 --> 00:55:23,030

far from certain dr. Paul Cox's group

1243

00:55:27,760 --> 00:55:25,490

has not made any definite connection in

1244

00:55:29,740 --> 00:55:27,770

their report and other experts in the

1245

00:55:32,950 --> 00:55:29,750

field have expressed their reservations

1246

00:55:35,500 --> 00:55:32,960

the Alzheimer's BMA a

1247

00:55:37,599 --> 00:55:35,510

was first proposed by Cox and colleagues

1248

00:55:40,329 --> 00:55:37,609

including the author and famous

1249

00:55:43,420 --> 00:55:40,339

neurologist dr. Oliver Sacks when they

1250

00:55:46,359 --> 00:55:43,430

found BMAA in the brains of Canadian and

1251  
00:55:49,900 --> 00:55:46,369  
Guam Alzheimer's patients but not in

1252  
00:55:51,910 --> 00:55:49,910  
control patients this hypothesis has

1253  
00:55:53,290 --> 00:55:51,920  
been further strengthened with recent

1254  
00:55:56,020 --> 00:55:53,300  
findings from scientists at the

1255  
00:55:58,510 --> 00:55:56,030  
University of Miami where BMAA was

1256  
00:56:02,160 --> 00:55:58,520  
detected in the brain and spinal cords

1257  
00:56:05,560 --> 00:56:02,170  
of ALS patients or Lou Gehrig's disease

1258  
00:56:07,690 --> 00:56:05,570  
similarly veterans of the Gulf War have

1259  
00:56:10,000 --> 00:56:07,700  
increased incidences of Lou Gehrig's

1260  
00:56:13,060 --> 00:56:10,010  
disease at a younger age than the rest

1261  
00:56:15,790 --> 00:56:13,070  
of the population studies into the

1262  
00:56:18,820 --> 00:56:15,800  
causes included analyses of the deserts

1263  
00:56:21,329 --> 00:56:18,830

of Qatar and showed that fifty six

1264

00:56:23,800 --> 00:56:21,339

percent of the area consisted of

1265

00:56:28,390 --> 00:56:23,810

cyanobacterial crusts and mats which

1266

00:56:31,630 --> 00:56:28,400

contained BMAA further an elegant Google

1267

00:56:33,280 --> 00:56:31,640

Maps epidemiological study of a cluster

1268

00:56:35,980 --> 00:56:33,290

of Lou Gehrig's patients in New

1269

00:56:38,410 --> 00:56:35,990

Hampshire revealed that many had recited

1270

00:56:40,839 --> 00:56:38,420

by water bodies which had been subject

1271

00:56:44,320 --> 00:56:40,849

to frequent algal blooms now although

1272

00:56:46,750 --> 00:56:44,330

the Alzheimer's BMAA Lou Gehrig's

1273

00:56:49,120 --> 00:56:46,760

hypothesis is not yet proven the

1274

00:56:52,050 --> 00:56:49,130

evidence is compelling enough for me to

1275

00:56:54,339 --> 00:56:52,060

think twice before I consume spirulina

1276

00:56:57,220 --> 00:56:54,349

especially when one grower has the

1277

00:56:59,530 --> 00:56:57,230

following listed as side effects slight

1278

00:57:02,320 --> 00:56:59,540

fever due to the body's need to burn the

1279

00:57:05,410 --> 00:57:02,330

extra protein from spirulina slight

1280

00:57:08,820 --> 00:57:05,420

dizziness if this occurs take less of

1281

00:57:12,460 --> 00:57:08,830

the product first and constipation

1282

00:57:15,520 --> 00:57:12,470

stomach ache skin itch or slight body

1283

00:57:18,550 --> 00:57:15,530

rash people who have food poisoning from

1284

00:57:21,420 --> 00:57:18,560

consuming contaminated shellfish often

1285

00:57:24,370 --> 00:57:21,430

suffer symptoms such as dizziness nausea

1286

00:57:27,250 --> 00:57:24,380

and memory loss after consuming

1287

00:57:29,560 --> 00:57:27,260

contaminated material these are pretty

1288

00:57:32,349 --> 00:57:29,570

similar symptoms to what we see as the

1289

00:57:34,300 --> 00:57:32,359

side effects for spirulina correlation

1290

00:57:36,240 --> 00:57:34,310

does not equal causation but the

1291

00:57:39,250 --> 00:57:36,250

similarities are interesting nonetheless

1292

00:57:41,380 --> 00:57:39,260

for more information and references from

1293

00:57:44,109 --> 00:57:41,390

today's story please head to the

1294

00:57:46,070 --> 00:57:44,119

sceptics owners blog at skeptic zone

1295

00:57:48,140 --> 00:57:46,080

wordpress com

1296

00:58:00,500 --> 00:57:48,150

and until next time this has been dr.

1297

00:58:11,300 --> 00:58:00,510

rachey reports join us now for drinking

1298

00:58:13,340 --> 00:58:11,310

skeptically in the think tank this is

1299

00:58:15,560 --> 00:58:13,350

Stefan music really loud I which one the

1300

00:58:21,770 --> 00:58:15,570

other bag dude that's our agreement sort

1301  
00:58:25,700 --> 00:58:21,780  
of our step and we love your music what

1302  
00:58:27,170 --> 00:58:25,710  
a great theme song that is thank you for

1303  
00:58:28,640 --> 00:58:27,180  
riding with the theme song for the think

1304  
00:58:30,800 --> 00:58:28,650  
tanks definitely it was no problem at

1305  
00:58:32,930 --> 00:58:30,810  
all and thank you for being here in the

1306  
00:58:35,270 --> 00:58:32,940  
thing dang it takes for having me sad to

1307  
00:58:37,250 --> 00:58:35,280  
me it is it's why you're here and such a

1308  
00:58:40,460 --> 00:58:37,260  
big group as well we have about 14

1309  
00:58:42,830 --> 00:58:40,470  
people in each other what feels like 40

1310  
00:58:45,110 --> 00:58:42,840  
you joining Stefan joining Stephanie

1311  
00:58:47,300 --> 00:58:45,120  
assessments of course dr. AG hi dr. a

1312  
00:58:50,330 --> 00:58:47,310  
team hi dr. Richard how are you dr. rich

1313  
00:58:54,980 --> 00:58:50,340

and I like that dr. Iran hello professor

1314

00:58:57,230 --> 00:58:54,990

richard you're being upgraded I am we

1315

00:59:04,520 --> 00:58:57,240

have what's another great title we have

1316

00:59:06,290 --> 00:59:04,530

a name Diana time hi wait Sarah today we

1317

00:59:07,610 --> 00:59:06,300

have a drunken mad men whose just

1318

00:59:09,440 --> 00:59:07,620

wandered off so the Most Reverend

1319

00:59:12,200 --> 00:59:09,450

drunken lat minh thank you very the most

1320

00:59:14,720 --> 00:59:12,210

reverent drunken madman the most rebel

1321

00:59:18,890 --> 00:59:14,730

angel and Joe what are you chief chief

1322

00:59:22,280 --> 00:59:18,900

Joe chief not each other at any moment

1323

00:59:24,740 --> 00:59:22,290

now of course Dave the happy singer will

1324

00:59:26,930 --> 00:59:24,750

be joining us we're just waiting for him

1325

00:59:28,520 --> 00:59:26,940

to arrive and I might have to slip away

1326

00:59:30,170 --> 00:59:28,530

and actually sign him into the tub but

1327

00:59:32,270 --> 00:59:30,180

let's get stuck straight into the think

1328

00:59:33,380 --> 00:59:32,280

tank while we're waiting for David we're

1329

00:59:34,910 --> 00:59:33,390

going to get to a very important issue

1330

00:59:38,480 --> 00:59:34,920

in a moment concerning our dear friend

1331

00:59:41,150 --> 00:59:38,490

dr. H E but Joe I noticed you have come

1332

00:59:45,800 --> 00:59:41,160

well prepared tonight with pages of

1333

00:59:47,280 --> 00:59:45,810

highlighted text come on pages upon

1334

00:59:49,350 --> 00:59:47,290

pages pages of homepage

1335

00:59:51,930 --> 00:59:49,360

oh I've just been doing my usual news

1336

00:59:54,270 --> 00:59:51,940

scanning um I think it was the last

1337

00:59:56,460 --> 00:59:54,280

thing tank when um we sort of we were

1338

00:59:59,790 --> 00:59:56,470

just starting to hear about a couple in

1339

01:00:05,760 --> 00:59:59,800

Pakistan who had killed their four month

1340

01:00:07,070 --> 01:00:05,770

old baby girl because a faith healer had

1341

01:00:09,870 --> 01:00:07,080

told them that it will make them wealthy

1342

01:00:11,430 --> 01:00:09,880

we talked about that very briefly we

1343

01:00:12,750 --> 01:00:11,440

haven't we didn't we didn't really hear

1344

01:00:14,970 --> 01:00:12,760

much about it all and in fact we don't

1345

01:00:19,290 --> 01:00:14,980

really know much more about it now but I

1346

01:00:22,800 --> 01:00:19,300

came across an article today from a

1347

01:00:24,990 --> 01:00:22,810

newspaper in the region talking about

1348

01:00:26,990 --> 01:00:25,000

how these faith healers in Pakistan are

1349

01:00:28,860 --> 01:00:27,000

becoming more and more prominent

1350

01:00:31,980 --> 01:00:28,870

apparently a lot of them have been

1351

01:00:34,230 --> 01:00:31,990

around for hundreds of years as part of

1352

01:00:36,420 --> 01:00:34,240

the religion in in the region but that

1353

01:00:41,520 --> 01:00:36,430

now there are which is kind of amusing

1354

01:00:45,360 --> 01:00:41,530

fake faith healers who are take a fake

1355

01:00:48,000 --> 01:00:45,370

faith hill which is opposing the real

1356

01:00:52,450 --> 01:00:48,010

ones I'm to say they take money from

1357

01:01:07,310 --> 01:01:04,790

hello this is a riot in case anyone are

1358

01:01:09,410 --> 01:01:07,320

you doing baby awesome who's this guy

1359

01:01:13,280 --> 01:01:09,420

that just turned up never said to the

1360

01:01:15,800 --> 01:01:13,290

big father I think he's going to have

1361

01:01:17,420 --> 01:01:15,810

something to say hello guys have you not

1362

01:01:20,540 --> 01:01:17,430

met Jasmine this is our purple Faye from

1363

01:01:22,610 --> 01:01:20,550

Twitter hello Dave why don't you take it

1364

01:01:25,610 --> 01:01:22,620

up you up there next to a doctor Iran

1365

01:01:32,120 --> 01:01:25,620

and we're just listening to it Joan oh

1366

01:01:34,010 --> 01:01:32,130

you were calling already yes actually

1367

01:01:36,680 --> 01:01:34,020

just before we kick in I've got a little

1368

01:01:39,980 --> 01:01:36,690

present for them to mark the return of

1369

01:01:43,100 --> 01:01:39,990

Dave the hab using a big pharma for you

1370

01:01:48,080 --> 01:01:43,110

from ceramics are you kidding yeah oh

1371

01:01:49,940 --> 01:01:48,090

wow I like you I recently Amy the time

1372

01:01:53,810 --> 01:01:49,950

saves lives and you've got one with an a

1373

01:01:56,510 --> 01:01:53,820

is sort of a oh yeah it isn't there you

1374

01:01:59,300 --> 01:01:56,520

go oh wow thank you so great to have

1375

01:02:01,100 --> 01:01:59,310

Dave back Joe where were we yes so

1376

01:02:03,530 --> 01:02:01,110

anyway apparently these faith healers

1377

01:02:06,320 --> 01:02:03,540

who in Pakistan are called peers they

1378

01:02:08,660 --> 01:02:06,330

are becoming more and more prominent and

1379

01:02:10,460 --> 01:02:08,670

are they take advantage of the

1380

01:02:13,850 --> 01:02:10,470

population who up in many areas are

1381

01:02:15,440 --> 01:02:13,860

illiterate and and very poor and the

1382

01:02:18,380 --> 01:02:15,450

particular case that they they talked

1383

01:02:22,280 --> 01:02:18,390

about here was of a young man who who as

1384

01:02:23,930 --> 01:02:22,290

a child had epilepsy and his family took

1385

01:02:26,450 --> 01:02:23,940

him to see various faith healers and

1386

01:02:28,760 --> 01:02:26,460

he's actually all right he hasn't died

1387

01:02:31,070 --> 01:02:28,770

nothing has happened to him as yet but

1388

01:02:33,650 --> 01:02:31,080

at the behest of this faith healer he

1389

01:02:35,840 --> 01:02:33,660

was ordered to to go back to his village

1390

01:02:39,530 --> 01:02:35,850

and poise parents to bury him in a grave

1391

01:02:41,420 --> 01:02:39,540

for 41 hours and after the 41 hours the

1392

01:02:44,000 --> 01:02:41,430

parents were to dig a little hole in the

1393

01:02:45,620 --> 01:02:44,010

ground put a blade of grass in and if

1394

01:02:48,080 --> 01:02:45,630

the blade of grass move they should then

1395

01:02:50,960 --> 01:02:48,090

dig him up again oh so they all SAT

1396

01:02:52,730 --> 01:02:50,970

around the grave for 41 hours and then

1397

01:02:54,890 --> 01:02:52,740

pop the blade of grass in the blade of

1398

01:02:57,980 --> 01:02:54,900

grass moved and they dug him up again

1399

01:03:00,500 --> 01:02:57,990

thankfully thankfully thankfully he was

1400

01:03:04,190 --> 01:03:00,510

fine but apparently this is really a

1401  
01:03:06,230 --> 01:03:04,200  
huge problem in these areas and pretty

1402  
01:03:09,590 --> 01:03:06,240  
creative you want to give him that it's

1403  
01:03:10,760 --> 01:03:09,600  
really it's a pretty normal idea but you

1404  
01:03:13,610 --> 01:03:10,770  
know this is the sort of situation

1405  
01:03:16,940 --> 01:03:13,620  
according to the family the sky is now

1406  
01:03:20,690 --> 01:03:16,950  
fine he's no longer having fits but you

1407  
01:03:23,660 --> 01:03:20,700  
know but it sounds like a sort of

1408  
01:03:25,850 --> 01:03:23,670  
situation where perhaps it's a someone

1409  
01:03:28,550 --> 01:03:25,860  
who maybe had a childhood epilepsy and

1410  
01:03:31,400 --> 01:03:28,560  
as they've gotten older it's subsided

1411  
01:03:34,040 --> 01:03:31,410  
but they are seeing that he's now been

1412  
01:03:36,140 --> 01:03:34,050  
to the faith healer and I think it's

1413  
01:03:37,700 --> 01:03:36,150

anything to do with being buried alive I

1414

01:03:40,940 --> 01:03:37,710

don't do you want anything to do with

1415

01:03:43,250 --> 01:03:40,950

that I'd have a fit if I was buried

1416

01:03:45,500 --> 01:03:43,260

alive for 40 whatever everyone again

1417

01:03:47,120 --> 01:03:45,510

that's visual these are in these

1418

01:03:50,660 --> 01:03:47,130

populations where people have no money

1419

01:03:53,600 --> 01:03:50,670

and no access to healthcare they are so

1420

01:03:54,980 --> 01:03:53,610

many people don't this they are they're

1421

01:03:58,280 --> 01:03:54,990

not actually necessarily taking money

1422

01:04:00,230 --> 01:03:58,290

from them this kid went to work for this

1423

01:04:02,840 --> 01:04:00,240

mountain and a lot of them are using

1424

01:04:04,460 --> 01:04:02,850

these people as sort of as labor they

1425

01:04:06,320 --> 01:04:04,470

get thousands of followers and they

1426

01:04:10,160 --> 01:04:06,330

actually provide them with free labor or

1427

01:04:12,050 --> 01:04:10,170

twin boys all sorts that's uh that's a

1428

01:04:14,900 --> 01:04:12,060

quite a scary story to start us off with

1429

01:04:16,400 --> 01:04:14,910

Joe gee thanks for that yes yes I saw

1430

01:04:20,150 --> 01:04:16,410

will get to write in your dad will get

1431

01:04:21,530 --> 01:04:20,160

to you if I'm sorry but let's let's cut

1432

01:04:23,600 --> 01:04:21,540

to the chase because I know a lot of our

1433

01:04:25,520 --> 01:04:23,610

listeners and who heaven knows what the

1434

01:04:27,110 --> 01:04:25,530

story will be when this by the time the

1435

01:04:30,350 --> 01:04:27,120

show comes out because we're recording

1436

01:04:34,260 --> 01:04:30,360

this on Wednesday and dr. rate you would

1437

01:04:36,960 --> 01:04:34,270

you like to summarize the story for us

1438

01:04:38,690 --> 01:04:36,970

look it's really hard to summarize it

1439

01:04:44,880 --> 01:04:38,700

because I've spent the last three days

1440

01:04:47,070 --> 01:04:44,890

getting abused insulted had my

1441

01:04:50,360 --> 01:04:47,080

qualifications questioned in public

1442

01:04:53,310 --> 01:04:50,370

forums all over the internet because of

1443

01:04:56,430 --> 01:04:53,320

what is known as the Twitter oskins

1444

01:04:59,670 --> 01:04:56,440

which is the shorty awards now I'd never

1445

01:05:01,800 --> 01:04:59,680

heard of the shorty awards until about

1446

01:05:03,750 --> 01:05:01,810

three weeks ago anybody heard of the

1447

01:05:06,270 --> 01:05:03,760

shorty live ID followed them last year

1448

01:05:08,130 --> 01:05:06,280

yeah this is the 2nd annual one so it is

1449

01:05:09,740 --> 01:05:08,140

new last year across Twitter was a lot

1450

01:05:12,120 --> 01:05:09,750

smaller this time last year yeah yeah

1451

01:05:13,230 --> 01:05:12,130

this is the second time it's real but

1452

01:05:17,690 --> 01:05:13,240

it's been a lot more interesting this

1453

01:05:21,240 --> 01:05:17,700

time first I heard of it was somebody

1454

01:05:22,680 --> 01:05:21,250

voted me about two weeks ago and I so I

1455

01:05:24,270 --> 01:05:22,690

went had a look at the website because I

1456

01:05:28,200 --> 01:05:24,280

thought what is this and then I saw that

1457

01:05:30,000 --> 01:05:28,210

a natural health person by the name of

1458

01:05:33,950 --> 01:05:30,010

Mike Adams who runs the website natural

1459

01:05:36,720 --> 01:05:33,960

news and a guy by the name of dr.

1460

01:05:39,960 --> 01:05:36,730

Majora's Joe McCollough sorry I've

1461

01:05:41,490 --> 01:05:39,970

blocked him out they were coming in the

1462

01:05:44,300 --> 01:05:41,500

first see second place of the health

1463

01:05:46,680 --> 01:05:44,310

category and so I'm tweeted this and a

1464

01:05:48,120 --> 01:05:46,690

few people and some of them are here and

1465

01:05:51,570 --> 01:05:48,130

one of them is sitting right other than

1466

01:05:54,630 --> 01:05:51,580

me boy drunken madman Jason Brown

1467

01:05:59,190 --> 01:05:54,640

decided this couldn't happen that these

1468

01:06:01,680 --> 01:05:59,200

two old men people should not win the

1469

01:06:03,480 --> 01:06:01,690

health category in the shorties and so

1470

01:06:05,490 --> 01:06:03,490

he went about formulating a campaign and

1471

01:06:07,740 --> 01:06:05,500

maybe you want to take up from here

1472

01:06:09,600 --> 01:06:07,750

doing well it was pretty simple I just

1473

01:06:11,160 --> 01:06:09,610

tweeted back to dr. HC after she

1474

01:06:13,590 --> 01:06:11,170

mentioned these two guys are winning and

1475

01:06:15,690 --> 01:06:13,600

said okay we can fix that and

1476

01:06:17,580 --> 01:06:15,700

immediately voted and then immediately

1477

01:06:19,020 --> 01:06:17,590

asked my followers to vote and then some

1478

01:06:21,030 --> 01:06:19,030

of my followers after their followers to

1479

01:06:22,950 --> 01:06:21,040

vote and some of their followers ask

1480

01:06:25,320 --> 01:06:22,960

their followers to vote and before too

1481

01:06:27,270 --> 01:06:25,330

long dr. rate she was in the lead with a

1482

01:06:32,820 --> 01:06:27,280

healthy margin of about 400 votes yeah I

1483

01:06:37,750 --> 01:06:35,560

Martin timbale of chromic who runs

1484

01:06:40,090 --> 01:06:37,760

what's the harm but no it wasn't nothing

1485

01:06:43,180 --> 01:06:40,100

virus tournament badass drama phil plait

1486

01:06:45,940 --> 01:06:43,190

i'm kiza my own eyes of course piggy

1487

01:06:48,940 --> 01:06:45,950

yeah and we just went well but even

1488

01:06:51,520 --> 01:06:48,950

funnier than what happened after Rachel

1489

01:06:55,260 --> 01:06:51,530

went to off number 10 hilarity ensued

1490

01:06:58,300 --> 01:06:55,270

yeah maybe you guys wanna talk about it

1491

01:07:01,780 --> 01:06:58,310

come on I don't want to say anything

1492

01:07:04,090 --> 01:07:01,790

libelous utility best huh well no I can

1493

01:07:07,150 --> 01:07:04,100

understand I can understand well Mike

1494

01:07:09,940 --> 01:07:07,160

Adams suddenly found himself without any

1495

01:07:12,820 --> 01:07:09,950

votes at all because his nominations

1496

01:07:14,260 --> 01:07:12,830

were all stripped from him oh I think we

1497

01:07:16,030 --> 01:07:14,270

should it's important to point out that

1498

01:07:18,400 --> 01:07:16,040

this has nothing to do with ratio with

1499

01:07:19,660 --> 01:07:18,410

anybody else this is a shorty yeah well

1500

01:07:22,420 --> 01:07:19,670

the people who organized the shorty

1501  
01:07:24,070 --> 01:07:22,430  
awards disqualified him because of a lot

1502  
01:07:25,900 --> 01:07:24,080  
of his votes came from what they

1503  
01:07:27,900 --> 01:07:25,910  
considered to be invalid accounts family

1504  
01:07:30,250 --> 01:07:27,910  
because they were accounts created

1505  
01:07:32,800 --> 01:07:30,260  
especially for the purpose faceplate it

1506  
01:07:34,420 --> 01:07:32,810  
was big just created and then made one

1507  
01:07:35,950 --> 01:07:34,430  
tweet and that's it and there's no

1508  
01:07:38,020 --> 01:07:35,960  
servia to invalidate the bites they

1509  
01:07:39,940 --> 01:07:38,030  
actually disqualified him because there

1510  
01:07:41,590 --> 01:07:39,950  
because a lot too large a proportion of

1511  
01:07:43,930 --> 01:07:41,600  
his total there was a really large

1512  
01:07:46,060 --> 01:07:43,940  
proportion for Adams and they weren't

1513  
01:07:47,710 --> 01:07:46,070

just making one tweet for Adams voting

1514

01:07:51,580 --> 01:07:47,720

for him they were making tweets voting

1515

01:07:53,320 --> 01:07:51,590

for Ritchie in quackery so yeah yeah i

1516

01:07:55,540 --> 01:07:53,330

thought i must say they were also making

1517

01:07:57,580 --> 01:07:55,550

votes for me in health and then they

1518

01:07:59,770 --> 01:07:57,590

condemned i'm making the because our an

1519

01:08:02,770 --> 01:07:59,780

offensive thing which still is a

1520

01:08:05,170 --> 01:08:02,780

legitimate vote it was really it kind of

1521

01:08:07,060 --> 01:08:05,180

like it's kind of like when bronwyn

1522

01:08:09,010 --> 01:08:07,070

hancock went and signed to stop the AVM

1523

01:08:10,570 --> 01:08:09,020

petition and said i don't agree with

1524

01:08:12,670 --> 01:08:10,580

this and i don't think we should have

1525

01:08:14,710 --> 01:08:12,680

his petition but she signed the petition

1526

01:08:16,289 --> 01:08:14,720

she's still signed it that counts as a

1527

01:08:17,939 --> 01:08:16,299

you know

1528

01:08:27,329 --> 01:08:17,949

I believe she signed the petition

1529

01:08:30,539 --> 01:08:27,339

against a but it's been a little bit

1530

01:08:32,399 --> 01:08:30,549

like that this is this that's the events

1531

01:08:33,649 --> 01:08:32,409

unfolded in the last couple of days it's

1532

01:08:36,260 --> 01:08:33,659

been a bit like that hasn't it been

1533

01:08:39,359 --> 01:08:36,270

amazing and it all got a bit hysterical

1534

01:08:40,950 --> 01:08:39,369

amazing posts fine by Adams and Nicole

1535

01:08:42,629 --> 01:08:40,960

ago about how much they don't care about

1536

01:08:45,120 --> 01:08:42,639

this award and then crying their eyes

1537

01:08:47,299 --> 01:08:45,130

out and threat me everything to sue the

1538

01:08:51,269 --> 01:08:47,309

surety of calling to Allah knows a

1539

01:08:53,280 --> 01:08:51,279

little-known skeptics out there know

1540

01:08:55,319 --> 01:08:53,290

that I mean that's really it the gist of

1541

01:08:57,749 --> 01:08:55,329

it really is yeah um and this all

1542

01:09:01,589 --> 01:08:57,759

resulted in yesterday Nicole are posting

1543

01:09:04,039 --> 01:09:01,599

on his Facebook page a really nasty post

1544

01:09:07,140 --> 01:09:04,049

saying that I was a little-known

1545

01:09:10,319 --> 01:09:07,150

overweight non-physician from Australia

1546

01:09:13,200 --> 01:09:10,329

she'll I was also a shield is also a big

1547

01:09:17,490 --> 01:09:13,210

pharma I've got check cleared

1548

01:09:18,990 --> 01:09:17,500

every are you put on the post before a

1549

01:09:21,180 --> 01:09:19,000

Christmas but i don't know maybe go

1550

01:09:23,220 --> 01:09:21,190

astray it's the big farmer the man we

1551

01:09:30,419 --> 01:09:23,230

blame for all this yeah I said if I

1552

01:09:32,039 --> 01:09:30,429

carry a crow from my County but um the

1553

01:09:35,519 --> 01:09:32,049

interesting thing about that was was

1554

01:09:38,280 --> 01:09:35,529

eventually his followers started turning

1555

01:09:39,930 --> 01:09:38,290

on him because of that in particular

1556

01:09:42,059 --> 01:09:39,940

because he made the comment about weight

1557

01:09:44,939 --> 01:09:42,069

because he's got sixty three thousand

1558

01:09:46,680 --> 01:09:44,949

fans on Facebook and I betcha some of

1559

01:09:48,959 --> 01:09:46,690

the facility those chances are i

1560

01:09:50,490 --> 01:09:48,969

promises am I trying to lose weight I've

1561

01:09:52,979 --> 01:09:50,500

seen some of their profile pictures

1562

01:09:55,919 --> 01:09:52,989

right and so they weren't particularly

1563

01:09:58,020 --> 01:09:55,929

impressed with what he wrote and said

1564

01:09:59,760 --> 01:09:58,030

and and there was a hilarious one that

1565

01:10:02,160 --> 01:09:59,770

you came across I think where someone

1566

01:10:04,229 --> 01:10:02,170

suggested that someone had hacked into

1567

01:10:05,970 --> 01:10:04,239

his computer all that was brilliant yeah

1568

01:10:07,950 --> 01:10:05,980

my cavender's computer had been hacked

1569

01:10:11,100 --> 01:10:07,960

clearly because this was so of character

1570

01:10:12,209 --> 01:10:11,110

for my god it must have been hacking so

1571

01:10:13,500 --> 01:10:12,219

you know immediately

1572

01:10:16,140 --> 01:10:13,510

everybody disturb people up in the

1573

01:10:17,879 --> 01:10:16,150

meeting like you do yeah he and the

1574

01:10:24,689 --> 01:10:17,889

other McCollough of sitting in a room

1575

01:10:25,770 --> 01:10:24,699

somewhere going okay we've got it we're

1576

01:10:29,279 --> 01:10:25,780

going to tell her thanks to Steve

1577

01:10:32,520 --> 01:10:29,289

novella rebecca watson to iraq at

1578

01:10:35,430 --> 01:10:32,530

respected on spec for insolence pv myers

1579

01:10:41,969 --> 01:10:35,440

Phil Plait felony it wasn't yet the

1580

01:10:44,040 --> 01:10:41,979

international dr AG appreciation a guy

1581

01:10:45,359 --> 01:10:44,050

by the name of HJ and I can't remember

1582

01:10:49,589 --> 01:10:45,369

the name of his blog now because it's

1583

01:10:51,419 --> 01:10:49,599

though he had happy pancakes or

1584

01:10:52,979 --> 01:10:51,429

something yeah yeah do you have a heavy

1585

01:10:54,600 --> 01:10:52,989

tanks or something have you seen you

1586

01:10:58,770 --> 01:10:54,610

ever seen Mick oldest homeopathic cure

1587

01:11:00,359 --> 01:10:58,780

for baldness I just don't know who this

1588

01:11:01,680 --> 01:11:00,369

guy is you know until last week I

1589

01:11:08,580 --> 01:11:01,690

thought I really got a mythical half

1590

01:11:11,250 --> 01:11:08,590

drink half fish agree no I put in that

1591

01:11:13,140 --> 01:11:11,260

by strong Marjorie well this one at

1592

01:11:14,850 --> 01:11:13,150

least if Allah winsome by the time this

1593

01:11:17,089 --> 01:11:14,860

show comes out who knows what the story

1594

01:11:19,830 --> 01:11:17,099

will be because mikkola in the last

1595

01:11:22,620 --> 01:11:19,840

three or four hours as we record

1596

01:11:25,319 --> 01:11:22,630

suddenly his votes left by over a

1597

01:11:27,810 --> 01:11:25,329

thousand they doubled actually we had

1598

01:11:30,000 --> 01:11:27,820

about 600 and I went to 1300 days then

1599

01:11:32,640 --> 01:11:30,010

up to 2,600 something last time I

1600

01:11:33,959 --> 01:11:32,650

checked which really very latest just as

1601

01:11:35,189 --> 01:11:33,969

really caught that I heard on twitter is

1602

01:11:37,770 --> 01:11:35,199

that this flood of votes room has

1603

01:11:38,719 --> 01:11:37,780

suddenly slowed down and we've got a

1604

01:11:40,439 --> 01:11:38,729

couple of people who are kind of

1605

01:11:41,910 --> 01:11:40,449

downloading the data from Twitter

1606

01:11:43,319 --> 01:11:41,920

through their search api so that they

1607

01:11:44,759 --> 01:11:43,329

can actually all the our selves without

1608

01:11:46,979 --> 01:11:44,769

relying on Shorty's water eventually

1609

01:11:48,100 --> 01:11:46,989

trace this by yourself to a certain

1610

01:11:50,290 --> 01:11:48,110

extent and

1611

01:11:51,820 --> 01:11:50,300

the first impressions are that there are

1612

01:11:53,109 --> 01:11:51,830

a lot of invalid votes but you know

1613

01:11:55,570 --> 01:11:53,119

let's get the data in and make sure that

1614

01:11:57,790 --> 01:11:55,580

we're writing message we're putting out

1615

01:11:59,979 --> 01:11:57,800

is listeners if you still have the

1616

01:12:02,560 --> 01:11:59,989

opportunity only if you have a valid

1617

01:12:04,930 --> 01:12:02,570

Twitter account and only if you really

1618

01:12:07,240 --> 01:12:04,940

feel you want to you can nominate dr. H

1619

01:12:10,629 --> 01:12:07,250

E and help I'll vote it up to AG or

1620

01:12:12,430 --> 01:12:10,639

whatever it is I should all baby I have

1621

01:12:13,930 --> 01:12:12,440

just a daytime job soon I don't have a

1622

01:12:17,290 --> 01:12:13,940

lot of munching distance and this but

1623

01:12:21,490 --> 01:12:17,300

perhaps you could use your big farmer

1624

01:12:23,290 --> 01:12:21,500

money to fund a big campaign to do you

1625

01:12:24,970 --> 01:12:23,300

know what to win this look do you know

1626

01:12:26,709 --> 01:12:24,980

who it is that really you know

1627

01:12:29,050 --> 01:12:26,719

prestigious award you know there are any

1628

01:12:33,640 --> 01:12:29,060

of this I get money from a multivitamin

1629

01:12:35,500 --> 01:12:33,650

company and I'm not kidding you I do not

1630

01:12:38,470 --> 01:12:35,510

get money from Big Pharma but i do get

1631

01:12:40,419 --> 01:12:38,480

money from a health food company within

1632

01:12:42,520 --> 01:12:40,429

it there you go whatever happens I mean

1633

01:12:44,530 --> 01:12:42,530

this this could go any way at the moment

1634

01:12:47,229 --> 01:12:44,540

I mean things are literally on for Moses

1635

01:12:49,180 --> 01:12:47,239

feet but I mean it it is just a Twitter

1636

01:12:50,649 --> 01:12:49,190

popularity concert yeah but I think the

1637

01:12:52,629 --> 01:12:50,659

most of the most amusing thing to take

1638

01:12:54,459 --> 01:12:52,639

away is but for me at least is how

1639

01:12:56,800 --> 01:12:54,469

rappelled Mike Adams and children like

1640

01:12:58,140 --> 01:12:56,810

cholera beyond seriously yes I mean

1641

01:13:01,959 --> 01:12:58,150

they've been posting the most

1642

01:13:03,939 --> 01:13:01,969

unbelievable vitriol and bowel don't

1643

01:13:07,660 --> 01:13:03,949

like Adams rant about skeptics is a

1644

01:13:09,700 --> 01:13:07,670

classic he's unbelievable the last days

1645

01:13:12,040 --> 01:13:09,710

that random of Mike Adams and the

1646

01:13:13,330 --> 01:13:12,050

subsequent blogs that came out of it

1647

01:13:15,250 --> 01:13:13,340

have provided me with some of the best

1648

01:13:18,370 --> 01:13:15,260

the greatest amusement I've had in days

1649

01:13:20,050 --> 01:13:18,380

Steve Allen just came upon an alright as

1650

01:13:21,669 --> 01:13:20,060

well and also please II but but I agree

1651

01:13:23,290 --> 01:13:21,679

with you and and the thing that I find

1652

01:13:25,660 --> 01:13:23,300

really interesting about that Dave is

1653

01:13:29,140 --> 01:13:25,670

that he insists that we're just a bunch

1654

01:13:31,870 --> 01:13:29,150

of unknown skeptics yes we have rattled

1655

01:13:34,689 --> 01:13:31,880

the cage of Joe mikkola and Mike Adams

1656

01:13:37,510 --> 01:13:34,699

big old men being the ultimate big homie

1657

01:13:41,169 --> 01:13:37,520

homie a huge amounts of money the car me

1658

01:13:43,930 --> 01:13:41,179

up yeah brought into huge amounts of

1659

01:13:45,609 --> 01:13:43,940

money and it's just been a bunch of us

1660

01:13:47,410 --> 01:13:45,619

that have got together and we've managed

1661

01:13:49,750 --> 01:13:47,420

to make them so angry that their hand

1662

01:13:51,430 --> 01:13:49,760

flapping and foot stamping and writing

1663

01:13:53,590 --> 01:13:51,440

posts as fast as I possibly can

1664

01:13:56,410 --> 01:13:53,600

McCullers emailed two million

1665

01:14:00,400 --> 01:13:56,420

in the last day yeah according to 40

1666

01:14:01,450 --> 01:14:00,410

years yeah yeah it's called stomach well

1667

01:14:03,130 --> 01:14:01,460

actually if people want to know a little

1668

01:14:07,300 --> 01:14:03,140

bit more about the background or from

1669

01:14:09,340 --> 01:14:07,310

the company that is my cat emissive you

1670

01:14:11,530 --> 01:14:09,350

know it's true the publishing yeah truth

1671

01:14:13,450 --> 01:14:11,540

publishing apparently I haven't hundreds

1672

01:14:17,080 --> 01:14:13,460

Emperor but it's a that's not really

1673

01:14:18,670 --> 01:14:17,090

saying is it yeah it is it's a company

1674

01:14:22,320 --> 01:14:18,680

registered in China headquartered in

1675

01:14:24,340 --> 01:14:22,330

Ecuador which does mass email marketing

1676

01:14:28,030 --> 01:14:24,350

another word for which is spam

1677

01:14:29,620 --> 01:14:28,040

essentially he's kind of made it

1678

01:14:31,240 --> 01:14:29,630

legitimate because these days you know

1679

01:14:34,150 --> 01:14:31,250

that the filthy spam stuff gets you off

1680

01:14:36,970 --> 01:14:34,160

the internet pretty quick but um yeah is

1681

01:14:39,670 --> 01:14:36,980

big business is really in sending stuff

1682

01:14:42,040 --> 01:14:39,680

out to punters and is it I street costa

1683

01:14:44,080 --> 01:14:42,050

rica he's in ecuador he doesn't know

1684

01:14:45,280 --> 01:14:44,090

where every article on his site has a

1685

01:14:46,780 --> 01:14:45,290

little link at the bottom if you'd like

1686

01:14:49,450 --> 01:14:46,790

to continue reading this article please

1687

01:14:53,230 --> 01:14:49,460

insert your email every single one so

1688

01:14:54,550 --> 01:14:53,240

I'm it's a little and doesn't he doesn't

1689

01:14:56,260 --> 01:14:54,560

it's one of his other companies have

1690

01:14:58,300 --> 01:14:56,270

something to do with big pharma as well

1691

01:15:00,370 --> 01:14:58,310

cuz some yes one of his marketing

1692

01:15:03,130 --> 01:15:00,380

companies is fully legitimate actually

1693

01:15:06,520 --> 01:15:03,140

and has been used by let me think where

1694

01:15:08,860 --> 01:15:06,530

Bayer I think I think it is the services

1695

01:15:11,830 --> 01:15:08,870

like the party isn't really get along

1696

01:15:13,060 --> 01:15:11,840

yeah thing you know that's from a blog

1697

01:15:15,190 --> 01:15:13,070

post that's going to be double-checked

1698

01:15:16,870 --> 01:15:15,200

but that seems to be the long and short

1699

01:15:18,430 --> 01:15:16,880

event well I saw someone else that

1700

01:15:20,950 --> 01:15:18,440

blogged about what you blogged about as

1701

01:15:22,360 --> 01:15:20,960

well so what's so interesting about this

1702

01:15:24,040 --> 01:15:22,370

is that this little bunch of skeptics

1703

01:15:26,410 --> 01:15:24,050

have dug all this stuff up and and I've

1704

01:15:28,810 --> 01:15:26,420

had so many people say they've never

1705

01:15:30,430 --> 01:15:28,820

heard of him as you said Dave and also

1706

01:15:32,980 --> 01:15:30,440

no one's ever heard of me and now they

1707

01:15:34,930 --> 01:15:32,990

have and so the thing is and your tummy

1708

01:15:37,900 --> 01:15:34,940

on your skeptics book of poop just go on

1709

01:15:40,210 --> 01:15:37,910

out of control but it's not exactly the

1710

01:15:43,090 --> 01:15:40,220

Streisand really with mcollough and

1711

01:15:46,570 --> 01:15:43,100

Adam visit but it oh it's a little bit

1712

01:15:49,120 --> 01:15:46,580

screaming there's a lot of skepticism

1713

01:15:51,280 --> 01:15:49,130

he was I knew who McCullough was I

1714

01:15:53,020 --> 01:15:51,290

didn't know my cabins was now I know who

1715

01:16:00,730 --> 01:15:53,030

my talent is and I'm going to get lots

1716

01:16:03,610 --> 01:16:00,740

of love him really interesting in all

1717

01:16:06,030 --> 01:16:03,620

their rats and all their followers are

1718

01:16:09,370 --> 01:16:06,040

accusing us with exactly what they are

1719

01:16:12,340 --> 01:16:09,380

yeah a sheeple or they just believe what

1720

01:16:16,870 --> 01:16:12,350

they're being told or it goes on and on

1721

01:16:18,760 --> 01:16:16,880

nominating Rachel and crockery yes but

1722

01:16:20,620 --> 01:16:18,770

the other thing is only I know that a

1723

01:16:21,910 --> 01:16:20,630

few of us here I haven't i've been

1724

01:16:23,920 --> 01:16:21,920

taking a backseat because i don't want

1725

01:16:25,960 --> 01:16:23,930

to be involved because it's been as far

1726

01:16:28,690 --> 01:16:25,970

as I'm concerned it's an entity unlike

1727

01:16:30,190 --> 01:16:28,700

what they're doing but I know a few of

1728

01:16:33,150 --> 01:16:30,200

us here have been trying to post on

1729

01:16:35,770 --> 01:16:33,160

Facebook pages and on natural news and

1730

01:16:37,960 --> 01:16:35,780

what's been the result of that I've been

1731

01:16:39,610 --> 01:16:37,970

banned Hyrum and all of the skeptics

1732

01:16:41,250 --> 01:16:39,620

about the skeptics posts from the

1733

01:16:44,410 --> 01:16:41,260

natural means facebook page with deleted

1734

01:16:46,840 --> 01:16:44,420

yesterday same with McCollough no

1735

01:16:48,479 --> 01:16:46,850

collars wholesale canon of skeptical of

1736

01:16:50,850 --> 01:16:48,489

us yeah

1737

01:16:54,930 --> 01:16:50,860

which reminds you of an T Rexes doesn't

1738

01:16:56,819 --> 01:16:54,940

really know well that said is really

1739

01:16:59,339 --> 01:16:56,829

well I mean so many people when they are

1740

01:17:01,350 --> 01:16:59,349

nominating you was a quick we were

1741

01:17:06,450 --> 01:17:01,360

saying because she pushes vaccinations

1742

01:17:09,029 --> 01:17:06,460

yeah I'm good what happens again there

1743

01:17:10,770 --> 01:17:09,039

was a really nice comment on one of pjs

1744

01:17:12,600 --> 01:17:10,780

blogs today from someone who is saying

1745

01:17:14,569 --> 01:17:12,610

that there's been a lot of discussion on

1746

01:17:16,859 --> 01:17:14,579

pjs blogs and a lot of disagreement but

1747

01:17:19,109 --> 01:17:16,869

people will say I think you're wrong for

1748

01:17:22,890 --> 01:17:19,119

this reason and then cite their

1749

01:17:24,930 --> 01:17:22,900

references hello and this guy was saying

1750

01:17:26,220 --> 01:17:24,940

well I'm so glad I'm a skeptic but she's

1751

01:17:27,239 --> 01:17:26,230

come on here I can have a

1752

01:17:28,919 --> 01:17:27,249

disagreement we can have a discussion

1753

01:17:30,419 --> 01:17:28,929

about it we can agree to go away and

1754

01:17:32,640 --> 01:17:30,429

look at the evidence whereas as soon as

1755

01:17:35,189 --> 01:17:32,650

you get on any of those sites and you

1756

01:17:37,259 --> 01:17:35,199

question them you your IP address is

1757

01:17:39,270 --> 01:17:37,269

taken down in that city on today there's

1758

01:17:41,819 --> 01:17:39,280

no discussion at all you know and they

1759

01:17:44,129 --> 01:17:41,829

call us sheeple yeah any other ideas

1760

01:17:46,169 --> 01:17:44,139

that someone wants to put to them they

1761

01:17:49,140 --> 01:17:46,179

don't want to hear about it they tightly

1762

01:17:50,009 --> 01:17:49,150

controlled assignment okay hmm what an

1763

01:17:57,209 --> 01:17:50,019

interesting turn of events

1764

01:18:00,029 --> 01:17:57,219

congratulations dr. Reggie yeah I didn't

1765

01:18:02,040 --> 01:18:00,039

mean to well we are we await the next

1766

01:18:03,330 --> 01:18:02,050

few days with great interest everybody

1767

01:18:06,509 --> 01:18:03,340

in but of course by the time this show

1768

01:18:08,009 --> 01:18:06,519

comes out in a few days will almost and

1769

01:18:13,259 --> 01:18:08,019

more yeah but there's still time to

1770

01:18:15,910 --> 01:18:13,269

write baby now let's uh thank you dr.

1771

01:18:17,680 --> 01:18:15,920

range wow what a story what a story

1772

01:18:20,830 --> 01:18:17,690

and now for another change of pace we

1773

01:18:23,530 --> 01:18:20,840

flip over dude Reverend dr. Iran

1774

01:18:25,030 --> 01:18:23,540

whatever you are Reverend is actually

1775

01:18:29,650 --> 01:18:25,040

good for this one because i want to

1776

01:18:32,350 --> 01:18:29,660

quote Reverend Eric hill from the st.

1777

01:18:35,680 --> 01:18:32,360

Peters and Paul Saints Peter and Paul

1778

01:18:39,820 --> 01:18:35,690

Catholic Church in dr. Georgia Georgia

1779

01:18:42,580 --> 01:18:39,830

in the United States he said this this

1780

01:18:44,890 --> 01:18:42,590

is from historians on CNN said given all

1781

01:18:46,540 --> 01:18:44,900

their country and people have been

1782

01:18:49,000 --> 01:18:46,550

through between political upheavals

1783

01:18:52,030 --> 01:18:49,010

human rights abuses hurricanes abject

1784

01:18:54,180 --> 01:18:52,040

poverty and last week's earthquake I

1785

01:18:57,100 --> 01:18:54,190

think it's about us in two weeks ago

1786

01:18:59,470 --> 01:18:57,110

says this the patients were constantly

1787

01:19:04,150 --> 01:18:59,480

questioning their faith they would all

1788

01:19:08,740 --> 01:19:04,160

be atheists and I say well they should

1789

01:19:11,830 --> 01:19:08,750

be shouldn't they it's ridiculous that

1790

01:19:14,169 --> 01:19:11,840

they are not all of this is thrown at

1791

01:19:16,660 --> 01:19:14,179

them but the thing is he was he was

1792

01:19:18,010 --> 01:19:16,670

saying that as kind of a compliment you

1793

01:19:19,479 --> 01:19:18,020

know they're not atheist because they're

1794

01:19:21,100 --> 01:19:19,489

not questioning their faith their just

1795

01:19:23,110 --> 01:19:21,110

accepting things at face value and God

1796

01:19:25,030 --> 01:19:23,120

keeps throwing at them so you do

1797

01:19:29,890 --> 01:19:25,040

have to be that I know they made a deal

1798

01:19:33,160 --> 01:19:29,900

with the devil was in Thomson all right

1799

01:19:35,820 --> 01:19:33,170

okay the devil team is the time so I

1800

01:19:38,290 --> 01:19:35,830

just I mean this is really suitable for

1801

01:19:40,450 --> 01:19:38,300

religious of the week on the

1802

01:19:42,520 --> 01:19:40,460

geologic podcast just just taking I'm

1803

01:19:43,780 --> 01:19:42,530

limbs may be intrigued that there's a

1804

01:19:45,280 --> 01:19:43,790

lot of background noise that you

1805

01:19:47,169 --> 01:19:45,290

normally don't have anything thank you

1806

01:19:48,669 --> 01:19:47,179

it's the old story would be thrown out

1807

01:19:50,530 --> 01:19:48,679

of our old room because our old room is

1808

01:19:52,150 --> 01:19:50,540

now a billiard room and we're now in

1809

01:19:54,939 --> 01:19:52,160

sort of the the back area of the

1810

01:19:58,959 --> 01:19:54,949

restaurant I think next time we'll try

1811

01:20:02,470 --> 01:19:58,969

to locate its offer two things going on

1812

01:20:04,870 --> 01:20:02,480

around we could pray for less people we

1813

01:20:07,050 --> 01:20:04,880

could carry on around yeah no that's

1814

01:20:10,680 --> 01:20:07,060

that's the story just amazing how people

1815

01:20:13,150 --> 01:20:10,690

see virtue in just blind faith

1816

01:20:15,220 --> 01:20:13,160

unquestioning faith in something that is

1817

01:20:17,600 --> 01:20:15,230

clearly not support

1818

01:20:20,870 --> 01:20:17,610

I've been watching some of the reports

1819

01:20:22,130 --> 01:20:20,880

and there was a woman on the news the

1820

01:20:26,120 --> 01:20:22,140

other day who said I'm waiting for Jesus

1821

01:20:27,260 --> 01:20:26,130

to come and save me it's still writing

1822

01:20:29,900 --> 01:20:27,270

you know what the funniest thing would

1823

01:20:32,540 --> 01:20:29,910

be if she were actually rescued by the

1824

01:20:34,190 --> 01:20:32,550

guys from the Israeli Defense Forces who

1825

01:20:36,920 --> 01:20:34,200

were taking people out of the rubble

1826

01:20:43,060 --> 01:20:36,930

there Holly just went down there today

1827

01:20:46,130 --> 01:20:43,070

to do touch therapy contra dances yes

1828

01:20:47,690 --> 01:20:46,140

Brian Thompson from the amateur

1829

01:20:52,610 --> 01:20:47,700

scientist Professor that he actually

1830

01:20:53,990 --> 01:20:52,620

went there to find you because there are

1831

01:20:56,870 --> 01:20:54,000

lots of cadavers there and he needs a

1832

01:21:05,270 --> 01:20:56,880

lot of here for his collection of two

1833

01:21:06,590 --> 01:21:05,280

phase i think around touched on

1834

01:21:09,140 --> 01:21:06,600

something really fundamental there

1835

01:21:10,610 --> 01:21:09,150

though that when you said that it all

1836

01:21:11,720 --> 01:21:10,620

comes down to faith and I went for a

1837

01:21:13,940 --> 01:21:11,730

curry the other night with a young earth

1838

01:21:16,850 --> 01:21:13,950

creationist pastor who's a really really

1839

01:21:18,950 --> 01:21:16,860

nice man we had a fantastic dinner and

1840

01:21:21,320 --> 01:21:18,960

we talked a lot about creation evolution

1841

01:21:22,790 --> 01:21:21,330

and fossils and about the historicity of

1842

01:21:24,170 --> 01:21:22,800

the Gospels and all that sort of thing

1843

01:21:26,000 --> 01:21:24,180

but in the end both of us agreed it all

1844

01:21:27,290 --> 01:21:26,010

comes down to bathe and I guess one of

1845

01:21:29,150 --> 01:21:27,300

the fundamental things for me as a

1846

01:21:31,460 --> 01:21:29,160

skeptic and I know not all skeptics talk

1847

01:21:33,110 --> 01:21:31,470

about religion all the time but the

1848

01:21:34,700 --> 01:21:33,120

muses skeptic it comes down to this idea

1849

01:21:37,850 --> 01:21:34,710

that faith is virtuous and I don't think

1850

01:21:39,440 --> 01:21:37,860

it is I think taking things without

1851

01:21:41,570 --> 01:21:39,450

evidence is not a virtuous thing I think

1852

01:21:46,070 --> 01:21:41,580

it in many cases it's harmful at the

1853

01:21:47,750 --> 01:21:46,080

best it's just pointless and but we seem

1854

01:21:49,520 --> 01:21:47,760

to have this idea that faith is a

1855

01:21:51,280 --> 01:21:49,530

virtual for the virtual thing and I'd

1856

01:21:52,450 --> 01:21:51,290

like to see that change

1857

01:21:54,310 --> 01:21:52,460

you know that make that brings up

1858

01:21:57,070 --> 01:21:54,320

another point Dave that recently came

1859

01:21:59,020 --> 01:21:57,080

out the BBC its expose the Newsnight

1860

01:22:01,960 --> 01:21:59,030

expose of those divining rods in Iraq

1861

01:22:04,120 --> 01:22:01,970

amore the people took those on face

1862

01:22:05,560 --> 01:22:04,130

value Jim McCormack and I've locked

1863

01:22:07,030 --> 01:22:05,570

about this the other day so you can find

1864

01:22:11,020 --> 01:22:07,040

it on my amazing blog that's been

1865

01:22:13,450 --> 01:22:11,030

visited by lots of people now um the you

1866

01:22:16,570 --> 01:22:13,460

know there's have you heard the story so

1867

01:22:18,490 --> 01:22:16,580

basically it was sold as a plastic that

1868

01:22:20,500 --> 01:22:18,500

I've been casing it looked like a gun

1869

01:22:22,900 --> 01:22:20,510

and inside and had a sort of antenna

1870

01:22:25,360 --> 01:22:22,910

that would fling out its bomb detector

1871

01:22:27,670 --> 01:22:25,370

as a bomb detector an accord leading to

1872

01:22:29,680 --> 01:22:27,680

a another little case where they put in

1873

01:22:31,390 --> 01:22:29,690

a card with the chicken that was

1874

01:22:34,390 --> 01:22:31,400

programmed to a specific type of

1875

01:22:37,390 --> 01:22:34,400

explosive and soldiers would carry it at

1876

01:22:39,340 --> 01:22:37,400

change that they still are and move it

1877

01:22:41,740 --> 01:22:39,350

around the cars and if the Rodney it's

1878

01:22:43,990 --> 01:22:41,750

like a divining rod there was going to

1879

01:22:45,610 --> 01:22:44,000

be explosives no I saw some footage on

1880

01:22:50,320 --> 01:22:45,620

the news last night which made me just

1881

01:22:51,820 --> 01:22:50,330

gaped in disgust apparently this guy

1882

01:22:54,730 --> 01:22:51,830

who stunned them for forty thousand

1883

01:22:57,070 --> 01:22:54,740

dollars right away Oh peach and Iraq

1884

01:22:59,230 --> 01:22:57,080

spent 85 million dollars on buying them

1885

01:23:01,270 --> 01:22:59,240

they said that in order to get them to

1886

01:23:03,040 --> 01:23:01,280

operate the soldiers had to generate

1887

01:23:05,410 --> 01:23:03,050

static electricity so they had to walk

1888

01:23:08,830 --> 01:23:05,420

up and down on the ground so they are

1889

01:23:10,600 --> 01:23:08,840

standing at a checkpoint in Iraq with

1890

01:23:12,820 --> 01:23:10,610

this stupid thing with plastic with a

1891

01:23:15,790 --> 01:23:12,830

metal rod stampin up and down to

1892

01:23:20,360 --> 01:23:18,710

everyone has to look at this because

1893

01:23:25,730 --> 01:23:20,370

when you see the news not report you

1894

01:23:28,790 --> 01:23:25,740

will not believe how gullible a jackal I

1895

01:23:31,220 --> 01:23:28,800

just comprehend how any government would

1896

01:23:35,300 --> 01:23:31,230

invest that amount of money in something

1897

01:23:37,250 --> 01:23:35,310

like that without having have you read

1898

01:23:41,240 --> 01:23:37,260

the men who stare at goats oh I know I

1899

01:23:43,550 --> 01:23:41,250

know funnily enough that was what it was

1900

01:23:45,440 --> 01:23:43,560

Andy Randy asked a very good question

1901

01:23:47,630 --> 01:23:45,450

which of course was late will will be

1902

01:23:49,400 --> 01:23:47,640

left forever unanswered but the general

1903

01:23:52,790 --> 01:23:49,410

the Iraqi general was actually

1904

01:23:57,670 --> 01:23:52,800

responsible for the 485 million dollar

1905

01:24:01,070 --> 01:23:57,680

expense there he is responsible for

1906

01:24:04,250 --> 01:24:01,080

buying it and for distributing it and he

1907

01:24:06,620 --> 01:24:04,260

said when he was asked about the any

1908

01:24:08,720 --> 01:24:06,630

evidence for that this works he said I

1909

01:24:11,930 --> 01:24:08,730

know more I know more about bombs than

1910

01:24:14,000 --> 01:24:11,940

any Americans do and I know that this

1911

01:24:17,810 --> 01:24:14,010

works I don't care about the evidence ha

1912

01:24:20,660 --> 01:24:17,820

and change James Randi Austin is in his

1913

01:24:23,240 --> 01:24:20,670

video about this with a lucky pocketing

1914

01:24:24,980 --> 01:24:23,250

some of the difference between your by

1915

01:24:28,070 --> 01:24:24,990

price and cell phones yeah quite

1916

01:24:30,740 --> 01:24:28,080

possibly use but that's that could be

1917

01:24:34,100 --> 01:24:30,750

the answer to how come they were there

1918

01:24:36,650 --> 01:24:34,110

were another 31 debts yesterday and 75

1919

01:24:39,260 --> 01:24:36,660

injured in a car bomb blast targeting

1920

01:24:43,640 --> 01:24:39,270

hotels in Baghdad because chemical ali

1921

01:24:45,260 --> 01:24:43,650

was put step in and over so there's and

1922

01:24:47,840 --> 01:24:45,270

the even the Iraqi people are saying

1923

01:24:49,370 --> 01:24:47,850

that 11 by particular on the BBC report

1924

01:24:52,520 --> 01:24:49,380

said that he would drive through the

1925

01:24:55,480 --> 01:24:52,530

checkpoint and sometimes he have droids

1926

01:24:57,410 --> 01:24:55,490

news in his bag and the rod would move

1927

01:24:58,859 --> 01:24:57,420

sometimes he wouldn't and the rod would

1928

01:25:00,989 --> 01:24:58,869

still move and he said I wreck

1929

01:25:03,060 --> 01:25:00,999

doesn't work I surprise I don't have

1930

01:25:10,850 --> 01:25:03,070

like at least one level of redundancy by

1931

01:25:16,770 --> 01:25:14,189

and now we're going to hear we're going

1932

01:25:22,609 --> 01:25:16,780

to hear from a man we all Revere and

1933

01:25:29,489 --> 01:25:25,109

you know this Saturday is going to be a

1934

01:25:32,639 --> 01:25:29,499

celebration of homeopathy baby still

1935

01:25:34,790 --> 01:25:32,649

believe it after was easy yes Big Pharma

1936

01:25:36,779 --> 01:25:34,800

why don't you tell us all about it well

1937

01:25:40,369 --> 01:25:36,789

our you've been getting a little bit

1938

01:25:43,739 --> 01:25:40,379

annoyed with all this on me off of e

1939

01:25:45,119 --> 01:25:43,749

taking away money from my firm's and my

1940

01:25:50,100 --> 01:25:45,129

shields frankly you are not being

1941

01:25:52,969 --> 01:25:50,110

working hard enough anything and these

1942

01:25:56,189 --> 01:25:52,979

only off of us have been making billions

1943

01:26:00,600 --> 01:25:56,199

it's a multi-billion dollar industry and

1944

01:26:02,879 --> 01:26:00,610

they're just selling water so you all go

1945

01:26:08,339 --> 01:26:02,889

down the queen victoria building in the

1946

01:26:10,500 --> 01:26:08,349

center sydney on saturday will be going

1947

01:26:14,100 --> 01:26:10,510

to take an overdose on OBO pervy and

1948

01:26:16,799 --> 01:26:14,110

kill ourselves by taking too many army

1949

01:26:20,939 --> 01:26:16,809

your perfect sleeping pills and we'll

1950

01:26:25,009 --> 01:26:20,949

stick it to big homo homie oh we will we

1951

01:26:27,419 --> 01:26:25,019

or you I being our bottom 10 23 I

1952

01:26:31,459 --> 01:26:27,429

thought it worked at the time I didn't

1953

01:26:36,989 --> 01:26:31,469

know Daniel Sweden is a statue is doing

1954

01:26:37,780 --> 01:26:36,999

Washington DC yes it is a huge one in it

1955

01:26:44,149 --> 01:26:37,790

that

1956

01:26:46,189 --> 01:26:44,159

oh thank you Sam you're always going

1957

01:26:47,930 --> 01:26:46,199

thank goodness for that here's the 10 23

1958

01:26:49,399 --> 01:26:47,940

campaign map by the time most of you

1959

01:26:51,649 --> 01:26:49,409

hear this I think the campaign might be

1960

01:26:55,760 --> 01:26:51,659

over but in case you want to know about

1961

01:26:58,580 --> 01:26:55,770

it it's 10 20 30 40 k got all that you

1962

01:26:59,600 --> 01:26:58,590

can check it out big protest and we'll

1963

01:27:02,030 --> 01:26:59,610

be talking about that in the next

1964

01:27:06,620 --> 01:27:02,040

episode as well as some videos oh yes

1965

01:27:10,340 --> 01:27:06,630

video what a thing to what a thing take

1966

01:27:11,930 --> 01:27:10,350

a noisy one I'm on fire edit look we're

1967

01:27:13,640 --> 01:27:11,940

all looking over towards the restaurant

1968

01:27:15,680 --> 01:27:13,650

over there in the food calling us I

1969

01:27:18,080 --> 01:27:15,690

think Mama's here mama walls were a

1970

01:27:19,580 --> 01:27:18,090

Gran's restaurant I don't know

1971

01:27:22,340 --> 01:27:19,590

about you but that thing could save me

1972

01:27:24,919 --> 01:27:22,350

hungry who's definite what are your most

1973

01:27:26,360 --> 01:27:24,929

actually is part of my new miracle

1974

01:27:28,669 --> 01:27:26,370

weight loss program eat less and

1975

01:27:30,770 --> 01:27:28,679

exercise more it probably doesn't fit in

1976

01:27:33,229 --> 01:27:30,780

perfectly but I'll certainly be giving

1977

01:27:35,540 --> 01:27:33,239

me if you run to them to the register

1978

01:27:37,910 --> 01:27:35,550

does that who'd probably would help nice

1979

01:27:40,160 --> 01:27:37,920

more vital in my house just before we go

1980

01:27:41,720 --> 01:27:40,170

stepping right you've been posting up

1981

01:27:43,490 --> 01:27:41,730

some videos on your YouTube account

1982

01:27:46,520 --> 01:27:43,500

which i think our listeners would love

1983

01:27:48,110 --> 01:27:46,530

to see oh yeah why not yes sir richard

1984

01:27:50,630 --> 01:27:48,120

this actually goes back to nineteen

1985

01:27:52,370 --> 01:27:50,640

ninety-three when you we used to hang

1986

01:27:54,050 --> 01:27:52,380

out of this little piano bar at the

1987

01:27:55,040 --> 01:27:54,060

Excelsior we believe and are we still

1988

01:27:56,660 --> 01:27:55,050

like have a lot of fun down there and

1989

01:27:59,209 --> 01:27:56,670

you actually bought a video camera that

1990

01:28:00,860 --> 01:27:59,219

day and we buy the video there's a lot

1991

01:28:03,320 --> 01:28:00,870

of fun on it you can check out step and

1992

01:28:05,630 --> 01:28:03,330

years ago doing is is song and dance and

1993

01:28:08,390 --> 01:28:05,640

hazardous the doors and a bit of pink

1994

01:28:12,979 --> 01:28:08,400

for ya what's your you charges serious

1995

01:28:14,570 --> 01:28:12,989

01 c white riu s01 serious 01 check it

1996

01:28:15,919 --> 01:28:14,580

out listeners have a good look at Stefan

1997

01:28:20,240 --> 01:28:15,929

are too good laugh he hasn't changed

1998

01:28:21,860 --> 01:28:20,250

much I'm not sure thank you Stefan for

1999

01:28:23,350 --> 01:28:21,870

coming along for think I'm great to have

2000

01:28:27,160 --> 01:28:23,360

you on anything

2001

01:28:28,540 --> 01:28:27,170

thank you Ron Baker isn't maybe Rebecca

2002

01:28:30,160 --> 01:28:28,550

thank you Dave you sing a great daddy

2003

01:28:35,740 --> 01:28:30,170

back no it's great to be back please

2004

01:28:37,479 --> 01:28:35,750

visit my website at Dave you're just

2005

01:28:39,910 --> 01:28:37,489

couldn't leave lacto in protest against

2006

01:28:41,379 --> 01:28:39,920

the australians ongoing plans to censor

2007

01:28:43,600 --> 01:28:41,389

the internet so go to date than happy to

2008

01:28:45,100 --> 01:28:43,610

adopt a more about that and also big

2009

01:28:48,820 --> 01:28:45,110

farmer I believe you on my own Facebook

2010

01:28:50,919 --> 01:28:48,830

are you Oh what be right damn you can

2011

01:28:57,090 --> 01:28:50,929

get me at facebook.com slash big for a

2012

01:29:03,580 --> 01:28:57,100

conspiracy Thank You Diane to come alone

2013

01:29:06,459 --> 01:29:03,590

thank you it's the drunken madman genius

2014

01:29:07,990 --> 01:29:06,469

yeah and feel your your work with this

2015

01:29:10,419 --> 01:29:08,000

current interesting issue of the

2016

01:29:13,270 --> 01:29:10,429

shorties Joe good to see you again thank

2017

01:29:17,620 --> 01:29:13,280

you Richard and until next time you know

2018

01:29:21,189 --> 01:29:17,630

what right now the table i forgot dr.

2019

01:29:23,020 --> 01:29:21,199

rachel i'm there now thank you dr.

2020

01:29:24,790 --> 01:29:23,030

aegean what a week you've had oh yes

2021

01:29:28,930 --> 01:29:24,800

what do we keep it send me some laws

2022

01:30:02,990 --> 01:29:28,940

people until next time folks goodbye

2023

01:30:10,310 --> 01:30:08,630

ah Richard what a show thanks for being

2024

01:30:12,260 --> 01:30:10,320

part of the think tank bear step it was

2025

01:30:13,820 --> 01:30:12,270

awesome wasn't it great I can't believe

2026

01:30:15,350 --> 01:30:13,830

I was actually here there's like a dream

2027

01:30:16,610 --> 01:30:15,360

come true it was a dream come true and

2028

01:30:19,100 --> 01:30:16,620

all our guests tonight and I'm

2029

01:30:21,230 --> 01:30:19,110

completely tanked you are tank tank to

2030

01:30:23,240 --> 01:30:21,240

me did you ever been dunno it's very

2031

01:30:24,980 --> 01:30:23,250

like now yeah we'll look thanks for

2032

01:30:26,510 --> 01:30:24,990

having me cuz it was great yeah and what

2033

01:30:27,620 --> 01:30:26,520

another great show one another great

2034

01:30:28,940 --> 01:30:27,630

show and we've got another great show

2035

01:30:30,650 --> 01:30:28,950

lined up for next week and the week

2036

01:30:31,970 --> 01:30:30,660

after you just keep it coming don't you

2037

01:30:34,040 --> 01:30:31,980

Richard we drive there's just no

2038

01:30:35,450 --> 01:30:34,050

stopping and we're very trying that's

2039

01:30:37,490 --> 01:30:35,460

what they say that's what they say in

2040

01:30:39,380 --> 01:30:37,500

the reviews no but thanks this does has

2041

01:30:41,900 --> 01:30:39,390

been great once again that this show is

2042

01:30:44,150 --> 01:30:41,910

is going as well as ever I wasn't even

2043

01:30:45,920 --> 01:30:44,160

better even better even better than it

2044

01:30:48,320 --> 01:30:45,930

by the week and the itunes is still

2045

01:30:49,880 --> 01:30:48,330

still hanging on in there is ticking

2046

01:30:52,310 --> 01:30:49,890

over very well thank you listeners and

2047

01:30:56,930 --> 01:30:52,320

we'll see you next next next week next

2048

01:31:02,930 --> 01:30:58,939

you've been listening to the skeptic

2049

01:31:06,709 --> 01:31:02,940

zone visit our website at [www.scripting](http://www.scripting)

2050

01:31:09,339 --> 01:31:06,719

zoomtv for comments contacts and extra

2051

01:31:14,360 --> 01:31:09,349

video reports