

The Skeptic Zone

Show 204 - 15 Sep 2012



Maynard & Dunning

1
00:00:22,660 --> 00:00:09,110
welcome to the skeptic zone the podcast

2
00:00:30,290 --> 00:00:25,490
hello and welcome to the skeptic zone

3
00:00:33,920 --> 00:00:30,300
episode number 204 for the 16th of sep

4
00:00:36,850 --> 00:00:33,930
tember 2012 Richard Saunders here with

5
00:00:38,720 --> 00:00:36,860
you from Sydney Australia and

6
00:00:40,850 --> 00:00:38,730
announcement that little announcement

7
00:00:44,420 --> 00:00:40,860
before we start I've just been elected

8
00:00:47,029 --> 00:00:44,430
president of Australian skeptics now I

9
00:00:50,090 --> 00:00:47,039
have held the post before in fact ten

10
00:00:51,709 --> 00:00:50,100
years ago I was first elected to to be

11
00:00:53,150 --> 00:00:51,719
the president of Australian skeptics and

12
00:00:55,430 --> 00:00:53,160
I was present for about three years I

13
00:00:57,920 --> 00:00:55,440

think something like that and then other

14

00:01:00,260 --> 00:00:57,930

people had some time being president

15

00:01:03,319 --> 00:01:00,270

notably of course a Rancic ever just er

16

00:01:06,730 --> 00:01:03,329

done and so the committee in their

17

00:01:10,100 --> 00:01:06,740

wisdom have decided to make me president

18

00:01:11,630 --> 00:01:10,110

one more time it's very different ten

19

00:01:13,310 --> 00:01:11,640

years is a long time is a very different

20

00:01:16,190 --> 00:01:13,320

sort of outlook a very different sort of

21

00:01:17,749 --> 00:01:16,200

committee and scepticism has changed in

22

00:01:20,320 --> 00:01:17,759

the last ten years of course so that's

23

00:01:23,330 --> 00:01:20,330

great i hope i can do a good job as a

24

00:01:25,730 --> 00:01:23,340

president of the Australian skeptics but

25

00:01:28,789 --> 00:01:25,740

let's look now to what's coming up on

26

00:01:30,590 --> 00:01:28,799

the skeptic zone two of my favorite

27

00:01:33,289 --> 00:01:30,600

people in the world folks may not and

28

00:01:36,370 --> 00:01:33,299

Brian Dunning get together to have a

29

00:01:40,370 --> 00:01:36,380

chat this was recorded at tam Las Vegas

30

00:01:42,469 --> 00:01:40,380

Brian Dunning and may not as to people

31

00:01:45,469 --> 00:01:42,479

you want to be in a hot tub with its

32

00:01:49,130 --> 00:01:45,479

brian dunning and may not think about

33

00:01:50,899 --> 00:01:49,140

that one anyway a great chat with brian

34

00:01:53,210 --> 00:01:50,909

dunning is one of our favorite people of

35

00:01:54,969 --> 00:01:53,220

course there are many podcasts out there

36

00:01:57,590 --> 00:01:54,979

folks many skeptical podcast

37

00:02:00,830 --> 00:01:57,600

90-something someone was telling me the

38

00:02:03,889 --> 00:02:00,840

one I never miss the one I listened to

39

00:02:07,190 --> 00:02:03,899

every week without fail is skip toward

40

00:02:09,290 --> 00:02:07,200

of course skip told that's coming up at

41

00:02:12,530 --> 00:02:09,300

the top of the show then after that it's

42

00:02:13,600 --> 00:02:12,540

the return of dr. Reggie reports dr.

43

00:02:15,520 --> 00:02:13,610

Richie dr. Reggie

44

00:02:18,040 --> 00:02:15,530

Dunlop is going to be killing us more

45

00:02:20,350 --> 00:02:18,050

more fan games with our wacky and crazy

46

00:02:23,590 --> 00:02:20,360

and zany Therapeutic Goods

47

00:02:27,070 --> 00:02:23,600

Administration mm-hmm what are they up

48

00:02:30,220 --> 00:02:27,080

to this week find out soon on dr. Rachel

49

00:02:32,740 --> 00:02:30,230

reports after that it's a message from

50

00:02:34,840 --> 00:02:32,750

Richard Dawkins about his award the

51
00:02:37,540 --> 00:02:34,850
Richard Dawkins award this year it's

52
00:02:38,710 --> 00:02:37,550
gone to one of my favorite people I've

53
00:02:39,910 --> 00:02:38,720
got a lot of favorite people when I come

54
00:02:42,580 --> 00:02:39,920
to think about it but really one of my

55
00:02:44,699 --> 00:02:42,590
favorite people Eugenie Scott from the

56
00:02:48,340 --> 00:02:44,709
National Center for Science Education

57
00:02:50,560 --> 00:02:48,350
congratulations Jeannie well deserved so

58
00:02:53,020 --> 00:02:50,570
you'll hear Richard Dawkins telling us

59
00:02:54,640 --> 00:02:53,030
about the awarding of that prize and

60
00:02:57,610 --> 00:02:54,650
then a little bit from Eugenie Scott

61
00:02:59,140 --> 00:02:57,620
where she discusses the National Center

62
00:03:02,470 --> 00:02:59,150
for Science Education and some of the

63
00:03:04,630 --> 00:03:02,480

tactics that creationists get up to and

64

00:03:06,220 --> 00:03:04,640

to wrap up the show maynard's back one

65

00:03:08,740 --> 00:03:06,230

more time to talk to an old friend of

66

00:03:12,010 --> 00:03:08,750

mine Gary Dalrymple who is one of the

67

00:03:14,650 --> 00:03:12,020

organizers of freak on here in city

68

00:03:17,350 --> 00:03:14,660

which is a free science fiction and

69

00:03:20,070 --> 00:03:17,360

fantasy convention that's coming up very

70

00:03:22,930 --> 00:03:20,080

soon more details at the end of the show

71

00:03:26,830 --> 00:03:22,940

lots of action happening in our solar

72

00:03:30,400 --> 00:03:26,840

system just lately folks I Voyager where

73

00:03:33,490 --> 00:03:30,410

the Voyager spacecraft has crossed some

74

00:03:36,100 --> 00:03:33,500

sort of boundary some sort of area and

75

00:03:39,850 --> 00:03:36,110

heading off into interstellar space and

76
00:03:42,070 --> 00:03:39,860
now reporter Maynard has reminded me

77
00:03:44,410 --> 00:03:42,080
that of course he spoke to Susan Dodd

78
00:03:48,940 --> 00:03:44,420
who is the project manager for Voyager

79
00:03:51,100 --> 00:03:48,950
and that was on episode 183 on the

80
00:03:53,380 --> 00:03:51,110
twenty first of April so it's worth

81
00:03:56,350 --> 00:03:53,390
three listening to if you have in mind

82
00:03:58,690 --> 00:03:56,360
to hear about this sort of space goings

83
00:04:01,539 --> 00:03:58,700
on of course we're all being am amazed

84
00:04:03,310 --> 00:04:01,549
by lovely gorgeous photographs coming

85
00:04:05,770 --> 00:04:03,320
back from the Curiosity rover at the

86
00:04:07,360 --> 00:04:05,780
moment now speaking briefly again as

87
00:04:10,420 --> 00:04:07,370
president of the Australian skeptics I

88
00:04:12,280 --> 00:04:10,430

hope you will join me sydneyiders for

89

00:04:14,350 --> 00:04:12,290

our dinner on the twenty-ninth of sep

90

00:04:16,900 --> 00:04:14,360

tember where we're going to be hearing

91

00:04:20,770 --> 00:04:16,910

from a Tory Shepherd punch columnist and

92

00:04:22,659 --> 00:04:20,780

chief reporter for news.com who gives a

93

00:04:23,530 --> 00:04:22,669

low-down on the media's embrace of the

94

00:04:27,040 --> 00:04:23,540

paranormal

95

00:04:29,260 --> 00:04:27,050

and the pseudo-scientific can't wait for

96

00:04:31,300 --> 00:04:29,270

that love the old skeptics dinners

97

00:04:37,060 --> 00:04:31,310

dinner talk so they're great evenings

98

00:04:39,430 --> 00:04:37,070

head to www.skype.com a you to book your

99

00:04:42,220 --> 00:04:39,440

ticket that's on the twenty-ninth of

100

00:04:45,430 --> 00:04:42,230

September and of course I hope you'll be

101
00:04:48,220 --> 00:04:45,440
joining me and James Randi and DJ Grothe

102
00:04:50,970 --> 00:04:48,230
and dr. Richie and rebecca watson and

103
00:04:53,550 --> 00:04:50,980
them and many many more people at the

104
00:04:55,750 --> 00:04:53,560
australian skeptics annual convention

105
00:04:58,180 --> 00:04:55,760
it's going to be in Melbourne at the end

106
00:05:01,330 --> 00:04:58,190
of november tickets are selling out fast

107
00:05:03,730 --> 00:05:01,340
don't miss this opportunity to meet lots

108
00:05:06,790 --> 00:05:03,740
of great people a chat with randy folks

109
00:05:11,190 --> 00:05:06,800
is is worth the price of admission alone

110
00:05:13,510 --> 00:05:11,200
believe me head to vic skeptics dot

111
00:05:14,830 --> 00:05:13,520
wordpress.com and find out more

112
00:05:17,470 --> 00:05:14,840
information about the australian

113
00:05:20,710 --> 00:05:17,480

skeptics National Convention and get

114

00:05:23,650 --> 00:05:20,720

your tickets soon folks get your tickets

115

00:05:25,570 --> 00:05:23,660

soon and now i'm going to ask for your

116

00:05:28,300 --> 00:05:25,580

help my dear listeners i'm going to ask

117

00:05:30,060 --> 00:05:28,310

for your help for some months now I've

118

00:05:32,670 --> 00:05:30,070

been slowly working on my new

119

00:05:34,960 --> 00:05:32,680

documentary the vaccination chronicles

120

00:05:36,640 --> 00:05:34,970

interviews with people and insights

121

00:05:38,800 --> 00:05:36,650

about the time before widespread

122

00:05:41,620 --> 00:05:38,810

vaccination what it was really like to

123

00:05:43,450 --> 00:05:41,630

see people suffering from these terrible

124

00:05:47,700 --> 00:05:43,460

diseases like polio and whooping cough

125

00:05:50,530 --> 00:05:47,710

measles things like this well I've

126

00:05:52,780 --> 00:05:50,540

really got into this documentary and

127

00:05:54,430 --> 00:05:52,790

having a very enjoyable time doing it as

128

00:05:57,280 --> 00:05:54,440

much as one can with a subject matter of

129

00:05:59,020 --> 00:05:57,290

course but I do need your help because

130

00:06:02,470 --> 00:05:59,030

in order to finish the documentary I

131

00:06:05,470 --> 00:06:02,480

have to upgrade my editing software

132

00:06:07,660 --> 00:06:05,480

because now I'm filming in HD now it's

133

00:06:10,480 --> 00:06:07,670

easy to film in HD of course anyone with

134

00:06:12,940 --> 00:06:10,490

an iphone can film in HD but it's doing

135

00:06:16,510 --> 00:06:12,950

all the processing the editing because I

136

00:06:18,580 --> 00:06:16,520

am and some of you may know I am also a

137

00:06:20,800 --> 00:06:18,590

professional video editor I've been

138

00:06:22,660 --> 00:06:20,810

doing it for many years but now I've hit

139

00:06:25,780 --> 00:06:22,670

a bump because I have to upgrade my

140

00:06:30,460 --> 00:06:25,790

software and here's a message for adobe

141

00:06:33,700 --> 00:06:30,470

i love using adobe premiere but it costs

142

00:06:35,710 --> 00:06:33,710

over twelve hundred dollars to download

143

00:06:37,990 --> 00:06:35,720

in Australia while I can buy

144

00:06:39,570 --> 00:06:38,000

it in a store in the United States for

145

00:06:43,600 --> 00:06:39,580

around six or seven hundred dollars

146

00:06:47,260 --> 00:06:43,610

hello so I've set up a thermometer on

147

00:06:50,410 --> 00:06:47,270

the skeptics own home page www.skeptics

148

00:06:52,390 --> 00:06:50,420

on TV you might remember there used to

149

00:06:55,660 --> 00:06:52,400

be one therefore may nod for Maynard's

150

00:06:57,850 --> 00:06:55,670

trip to Vegas well that worked very

151
00:07:00,460 --> 00:06:57,860
modest the Marbella folks just six

152
00:07:02,710 --> 00:07:00,470
hundred dollars that's all I need that's

153
00:07:04,620 --> 00:07:02,720
that's the shortfall there is for this

154
00:07:07,390 --> 00:07:04,630
project is only six hundred dollars

155
00:07:09,220 --> 00:07:07,400
please feel free to chip in I'd be very

156
00:07:14,350 --> 00:07:09,230
grateful if you do and I can finish this

157
00:07:16,030 --> 00:07:14,360
video off in HD I think I've bombarded

158
00:07:18,460 --> 00:07:16,040
you with enough and use and information

159
00:07:21,820 --> 00:07:18,470
and goings on and everything else I'm

160
00:07:23,590 --> 00:07:21,830
going to run down stairs carefully

161
00:07:26,800 --> 00:07:23,600
always have to be careful on the steps

162
00:07:29,830 --> 00:07:26,810
I'm going to go up to the cupboard above

163
00:07:33,210 --> 00:07:29,840

the fridge to get that pancake mix oh

164

00:07:36,700 --> 00:07:33,220

yes pancake mix mix up my yourself some

165

00:07:38,409 --> 00:07:36,710

lovely fluffy pancakes some butter on

166

00:07:41,560 --> 00:07:38,419

the top and maple syrup how about that

167

00:07:57,480 --> 00:07:41,570

well I do that i hope you enjoying the

168

00:08:05,600 --> 00:08:02,400

here's my not spooky action at the

169

00:08:09,960 --> 00:08:08,430

now one of the main reasons anyone would

170

00:08:12,300 --> 00:08:09,970

ever come to America would be to meet

171

00:08:14,610 --> 00:08:12,310

Brian Dunning and that's the bell of

172

00:08:18,510 --> 00:08:14,620

discovery Brian Dunning welcomed me to

173

00:08:20,279 --> 00:08:18,520

America welcome to America it's obscene

174

00:08:21,899 --> 00:08:20,289

a lot of it on television I've lost seen

175

00:08:24,719 --> 00:08:21,909

you Americans in movies but you're all

176

00:08:27,089 --> 00:08:24,729

very different up close well we don't we

177

00:08:28,619 --> 00:08:27,099

don't have quite the same gun that John

178

00:08:30,570 --> 00:08:28,629

Wayne carried some of us carry different

179

00:08:32,550 --> 00:08:30,580

models and and not all of us can afford

180

00:08:34,740 --> 00:08:32,560

horses some of us have to ride cows now

181

00:08:36,569 --> 00:08:34,750

what area from the Orange County woody

182

00:08:38,279 --> 00:08:36,579

where you from you know I thought I saw

183

00:08:41,399 --> 00:08:38,289

you on the real wives of orange county

184

00:08:43,350 --> 00:08:41,409

as a cab driver sadly I am right in that

185

00:08:46,530 --> 00:08:43,360

area I'm at Orange County California

186

00:08:48,449 --> 00:08:46,540

about halfway between LA and and San

187

00:08:51,000 --> 00:08:48,459

Diego beautiful beach community whales

188

00:08:52,530 --> 00:08:51,010

dolphins all that Sun it was Philly a

189

00:08:54,090 --> 00:08:52,540

liberal democrat area what kind of

190

00:08:56,790 --> 00:08:54,100

politics is it plays in that area oh

191

00:08:58,259 --> 00:08:56,800

it's it is it is very conservative oh

192

00:09:00,000 --> 00:08:58,269

really yeah we've got we've got like a

193

00:09:03,180 --> 00:09:00,010

couple little surf spots on the beach

194

00:09:04,769 --> 00:09:03,190

you got Laguna Beach and some pockets of

195

00:09:06,690 --> 00:09:04,779

artsy communities that are very liberal

196

00:09:09,389 --> 00:09:06,700

but by and large orange county is known

197

00:09:11,819 --> 00:09:09,399

for the it's one of the conservative

198

00:09:13,230 --> 00:09:11,829

spots of California so is there any

199

00:09:15,269 --> 00:09:13,240

skeptical issue that goes on in that

200

00:09:17,850 --> 00:09:15,279

area that you're aware of is it a big an

201
00:09:21,389 --> 00:09:17,860
evac Syria for example no I wouldn't say

202
00:09:24,410 --> 00:09:21,399
it's that but it's it's it's like much

203
00:09:27,690 --> 00:09:24,420
of California it's all the New Age whoa

204
00:09:30,630 --> 00:09:27,700
food woo is is very popular and buy food

205
00:09:32,460 --> 00:09:30,640
whew i mean people saying that certain

206
00:09:34,980 --> 00:09:32,470
super foods i love that expression a

207
00:09:36,870 --> 00:09:34,990
superfood yeah super foods organic food

208
00:09:39,060 --> 00:09:36,880
things that are miraculously healthy and

209
00:09:41,160 --> 00:09:39,070
then evil corporate foods processed

210
00:09:42,780 --> 00:09:41,170
foods that will immediately kill you and

211
00:09:44,670 --> 00:09:42,790
of course there's no evidence for either

212
00:09:46,740 --> 00:09:44,680
one of these but nevertheless it remains

213
00:09:49,019 --> 00:09:46,750

a very popular topic because you're the

214

00:09:51,420 --> 00:09:49,029

host and the producer abbr sceptile the

215

00:09:53,939 --> 00:09:51,430

weekly podcast and you've done all these

216

00:09:55,620 --> 00:09:53,949

episodes almost 300 you've only just got

217

00:09:56,880 --> 00:09:55,630

round to the Loch Ness monster what you

218

00:09:58,230 --> 00:09:56,890

been doing you mean you've been smoking

219

00:10:00,329 --> 00:09:58,240

something how come you didn't get do

220

00:10:01,470 --> 00:10:00,339

that on the first episode yeah a lot of

221

00:10:03,300 --> 00:10:01,480

people have asked me that yeah that I

222

00:10:05,240 --> 00:10:03,310

haven't done Bigfoot yet either I

223

00:10:07,439 --> 00:10:05,250

haven't done the JFK assassination

224

00:10:09,540 --> 00:10:07,449

there's a lot of standards I haven't

225

00:10:12,840 --> 00:10:09,550

gotten to simply because there are so

226

00:10:15,180 --> 00:10:12,850

many subjects out there a lot of them

227

00:10:16,970 --> 00:10:15,190

that people haven't heard of but that

228

00:10:19,160 --> 00:10:16,980

they still have just a really fun

229

00:10:20,780 --> 00:10:19,170

wonderful story behind them and

230

00:10:22,550 --> 00:10:20,790

that's one of the feedback I get most

231

00:10:23,780 --> 00:10:22,560

often is I'd never heard of this before

232

00:10:25,129 --> 00:10:23,790

and I thought it was going to be stupid

233

00:10:28,400 --> 00:10:25,139

but then I started listening and was

234

00:10:29,840 --> 00:10:28,410

fascinated now I've given you with the

235

00:10:30,920 --> 00:10:29,850

intersection with with the two of us

236

00:10:32,509 --> 00:10:30,930

when we met when you came to town

237

00:10:34,579 --> 00:10:32,519

Australia there's a couple of ideas I

238

00:10:36,379 --> 00:10:34,589

thrown your way there was the the Nazi

239

00:10:39,319 --> 00:10:36,389

UFO one which is a very interesting one

240

00:10:40,370 --> 00:10:39,329

and the Vril and and westall 66 you had

241

00:10:42,590 --> 00:10:40,380

a look at that in fact you're one of the

242

00:10:44,030 --> 00:10:42,600

few skeptical people that had a look at

243

00:10:45,379 --> 00:10:44,040

that and you raised the idea that it

244

00:10:48,530 --> 00:10:45,389

could have been an experimental drone at

245

00:10:50,120 --> 00:10:48,540

the time yeah what and actually I didn't

246

00:10:52,280 --> 00:10:50,130

raise the idea but i just found in one

247

00:10:54,889 --> 00:10:52,290

particular newspaper article that after

248

00:10:56,480 --> 00:10:54,899

it had come out someone had written in a

249

00:10:59,540 --> 00:10:56,490

letter to the editor and say hey i was

250

00:11:02,060 --> 00:10:59,550

stationed at Moorabbin airport is that

251
00:11:03,490 --> 00:11:02,070
isn't revenue ok apparently there have

252
00:11:08,269 --> 00:11:03,500
been some i'm not sure we call it the

253
00:11:09,139 --> 00:11:08,279
RAAF of the audible a reserve base or

254
00:11:11,360 --> 00:11:09,149
something and one of the things that

255
00:11:14,210 --> 00:11:11,370
they used to do there at the time in

256
00:11:16,160 --> 00:11:14,220
1966 was they would train pilots by

257
00:11:17,990 --> 00:11:16,170
having them chase a target drogue and

258
00:11:19,790 --> 00:11:18,000
the target drogue is just basically like

259
00:11:22,100 --> 00:11:19,800
a big giant wind sock that's towed

260
00:11:24,949 --> 00:11:22,110
behind another plane and other planes

261
00:11:28,069 --> 00:11:24,959
would chase that around and it turned

262
00:11:30,500 --> 00:11:28,079
out to be virtually a word for word

263
00:11:33,259 --> 00:11:30,510

description of what the science teacher

264

00:11:34,880 --> 00:11:33,269

who witnessed this said that he saw in

265

00:11:36,319 --> 00:11:34,890

the sky okay well that that's one

266

00:11:38,060 --> 00:11:36,329

possibility that's been raised that

267

00:11:40,519 --> 00:11:38,070

hasn't been mentioned as much as other

268

00:11:42,170 --> 00:11:40,529

possibilities yes certainly not know and

269

00:11:45,500 --> 00:11:42,180

it's everyone's gone with the math

270

00:11:47,540 --> 00:11:45,510

solution ation theory yeah I don't I

271

00:11:50,540 --> 00:11:47,550

don't buy the mass hallucination theory

272

00:11:52,430 --> 00:11:50,550

although typically what we always see in

273

00:11:53,780 --> 00:11:52,440

almost all well publicized cases is that

274

00:11:55,550 --> 00:11:53,790

a lot of people going to come out of the

275

00:11:57,230 --> 00:11:55,560

woodwork afterwards and it's the

276

00:11:59,150 --> 00:11:57,240

bandwagon effect everyone else saw

277

00:12:01,069 --> 00:11:59,160

something you tend to think you saw

278

00:12:02,360 --> 00:12:01,079

something two or you even lie about it

279

00:12:03,860 --> 00:12:02,370

and say oh yeah I don't want to be the

280

00:12:05,990 --> 00:12:03,870

only one who didn't see anything so yeah

281

00:12:07,730 --> 00:12:06,000

I saw something as well and what's the

282

00:12:09,470 --> 00:12:07,740

episode you've done that's really got

283

00:12:12,380 --> 00:12:09,480

the most flak and the most negative

284

00:12:13,790 --> 00:12:12,390

result from people it that always comes

285

00:12:15,559 --> 00:12:13,800

to when you when you're looking at a

286

00:12:21,199 --> 00:12:15,569

particular science that has political

287

00:12:23,509 --> 00:12:21,209

ramifications I I did one on DDT the the

288

00:12:26,210 --> 00:12:23,519

pesticide that is used a lot I mean that

289

00:12:27,949 --> 00:12:26,220

DDT created the Panama Canal for example

290

00:12:30,949 --> 00:12:27,959

that's what kept the workers alive and

291

00:12:33,319 --> 00:12:30,959

it's used now in places like Africa and

292

00:12:35,169 --> 00:12:33,329

India where we still have

293

00:12:40,729 --> 00:12:35,179

very severe problems with malaria

294

00:12:43,129 --> 00:12:40,739

however a lot of people strongly dislike

295

00:12:45,530 --> 00:12:43,139

the use of DDT it does definitely have

296

00:12:48,499 --> 00:12:45,540

environmental impacts it has been shown

297

00:12:50,150 --> 00:12:48,509

to be strongly correlated with eggshell

298

00:12:53,119 --> 00:12:50,160

thinning there's no doubt that it's a

299

00:12:55,249 --> 00:12:53,129

very imperfect insecticide and we have

300

00:12:57,439 --> 00:12:55,259

better insecticides now the thing with

301

00:13:00,889 --> 00:12:57,449

DDT is it's just incredibly inexpensive

302

00:13:03,559 --> 00:13:00,899

and when children are dying you know

303

00:13:05,749 --> 00:13:03,569

sometimes you got to say well we have to

304

00:13:07,249 --> 00:13:05,759

decide between how many bird shell eggs

305

00:13:09,889 --> 00:13:07,259

do we want thinned and how many kids do

306

00:13:11,780 --> 00:13:09,899

we want to decide and my conclusion on

307

00:13:14,479 --> 00:13:11,790

that was that I felt the existing bands

308

00:13:17,359 --> 00:13:14,489

were just about appropriate and that

309

00:13:18,979 --> 00:13:17,369

drew a huge amount of Eire from largely

310

00:13:22,639 --> 00:13:18,989

from the people who oppose the use of

311

00:13:24,590 --> 00:13:22,649

DDT and when you make a mistake or even

312

00:13:26,780 --> 00:13:24,600

look like it made a mistake they aren't

313

00:13:30,309 --> 00:13:26,790

backward in coming forward are they the

314

00:13:33,289 --> 00:13:30,319

people with the emails i know it when i

315

00:13:34,970 --> 00:13:33,299

try to i'm going to make mistakes all

316

00:13:37,340 --> 00:13:34,980

the time and i try to correct them

317

00:13:38,809 --> 00:13:37,350

whenever i do i usually go back and

318

00:13:41,090 --> 00:13:38,819

correct the transcript on the website

319

00:13:42,799 --> 00:13:41,100

and every so often maybe every 3-4

320

00:13:44,960 --> 00:13:42,809

months or so i will put out an episode

321

00:13:47,479 --> 00:13:44,970

that's exclusively dedicated to

322

00:13:49,549 --> 00:13:47,489

Corrections and arata and Boo Boo's and

323

00:13:50,960 --> 00:13:49,559

blunders and so forth and I think I

324

00:13:53,179 --> 00:13:50,970

think people really enjoy those because

325

00:13:54,499 --> 00:13:53,189

they're just as interesting and what do

326

00:13:56,689 --> 00:13:54,509

you thought as being the mood here at

327

00:13:59,389 --> 00:13:56,699

ten this year 2012 is it had a special

328

00:14:01,100 --> 00:13:59,399

feel to it as my first one I have no

329

00:14:02,900 --> 00:14:01,110

idea what has been the theme this year

330

00:14:04,879 --> 00:14:02,910

what has been the feeling you know

331

00:14:06,769 --> 00:14:04,889

there's so many first-time attendees

332

00:14:08,900 --> 00:14:06,779

here I've seen they have these first

333

00:14:10,249 --> 00:14:08,910

tammer badges for which I'm wearing

334

00:14:11,840 --> 00:14:10,259

you're wearing one right now I've seen

335

00:14:14,389 --> 00:14:11,850

more of those than I have at any at any

336

00:14:16,369 --> 00:14:14,399

previous event which is great and a lot

337

00:14:17,479 --> 00:14:16,379

of people are coming by my table I've

338

00:14:19,220 --> 00:14:17,489

got a table here where we're selling

339

00:14:22,549 --> 00:14:19,230

this cap tied books and DVDs and so

340

00:14:25,159 --> 00:14:22,559

forth and everyone is expressing pretty

341

00:14:26,720 --> 00:14:25,169

much universally positive feedback i

342

00:14:28,069 --> 00:14:26,730

think it's i think it's a it's a great

343

00:14:29,929 --> 00:14:28,079

show where we don't have some of the big

344

00:14:32,090 --> 00:14:29,939

headlining names this year Adam Savage

345

00:14:34,999 --> 00:14:32,100

and in we had a conflict with comic-con

346

00:14:37,460 --> 00:14:35,009

for example in his case so we've got a

347

00:14:39,289 --> 00:14:37,470

lot of new speakers and a lot of new

348

00:14:41,840 --> 00:14:39,299

attendees it's it's really been kind of

349

00:14:44,150 --> 00:14:41,850

like turning a fresh page and sort of a

350

00:14:45,710 --> 00:14:44,160

rebooting the conference anew now now

351

00:14:47,360 --> 00:14:45,720

Bryan something that

352

00:14:49,129 --> 00:14:47,370

it's a bit puzzling to me because to me

353

00:14:50,600 --> 00:14:49,139

america is the land of the middle man

354

00:14:52,670 --> 00:14:50,610

you can always sell your idea to someone

355

00:14:54,319 --> 00:14:52,680

who can sell you idea to someone your

356

00:14:56,210 --> 00:14:54,329

show to me seems like a something could

357

00:14:57,679 --> 00:14:56,220

be commercially saleable George Arab

358

00:14:59,600 --> 00:14:57,689

seems like someone who is commercially

359

00:15:01,699 --> 00:14:59,610

saleable SGU seems like something that

360

00:15:03,889 --> 00:15:01,709

is commercially saleable yet they're not

361

00:15:05,780 --> 00:15:03,899

on mainstream radio why can't these

362

00:15:09,139 --> 00:15:05,790

things be gotten on even in a small

363

00:15:12,170 --> 00:15:09,149

syndicated fashion in the US that's

364

00:15:15,379 --> 00:15:12,180

that's a great question I think the

365

00:15:16,879 --> 00:15:15,389

example that I use and I don't know if

366

00:15:18,740 --> 00:15:16,889

I'm you I may be using an example that's

367

00:15:20,240 --> 00:15:18,750

known to Americans and not Australians

368

00:15:24,079 --> 00:15:20,250

but there's a TV show here called the

369

00:15:26,269 --> 00:15:24,089

view yeah and we have a copy of that in

370

00:15:27,800 --> 00:15:26,279

strata called the circle okay so we've

371

00:15:29,660 --> 00:15:27,810

got five women sitting on the couch it's

372

00:15:32,150 --> 00:15:29,670

like it's on daytime television one of

373

00:15:35,240 --> 00:15:32,160

the women's channels and they argue

374

00:15:37,460 --> 00:15:35,250

about current events and stuff and if

375

00:15:39,590 --> 00:15:37,470

you ask anyone named a subject that you

376

00:15:41,990 --> 00:15:39,600

heard on the view nobody can think of

377

00:15:43,850 --> 00:15:42,000

one so what happens on the view it was

378

00:15:45,050 --> 00:15:43,860

it was mainly all arguments and

379

00:15:46,910 --> 00:15:45,060

fireworks between two of the

380

00:15:48,800 --> 00:15:46,920

personalities one very conservative girl

381

00:15:50,240 --> 00:15:48,810

and then Whoopi Goldberg Brett was in

382

00:15:52,009 --> 00:15:50,250

the very liberal perspective and they

383

00:15:53,749 --> 00:15:52,019

would just hash it out and and it makes

384

00:15:57,019 --> 00:15:53,759

great entertainment because it's its

385

00:16:00,100 --> 00:15:57,029

conflict that is so different from what

386

00:16:02,480 --> 00:16:00,110

what I'm doing on skep tide certainly

387

00:16:04,220 --> 00:16:02,490

skeptics guide of the universe has had

388

00:16:06,740 --> 00:16:04,230

some some conflict especially when they

389

00:16:08,749 --> 00:16:06,750

had their previous hosts Perry who

390

00:16:10,490 --> 00:16:08,759

unfortunately is no longer with us but

391

00:16:11,929 --> 00:16:10,500

he used to get into some great arguments

392

00:16:13,910 --> 00:16:11,939

and it make great entertainment so I

393

00:16:17,079 --> 00:16:13,920

think it's just a matter of finding the

394

00:16:21,199 --> 00:16:17,089

right personalities and presenting this

395

00:16:23,269 --> 00:16:21,209

fascinating information in in just a or

396

00:16:25,340 --> 00:16:23,279

commercial format do you think it's part

397

00:16:26,540 --> 00:16:25,350

of the the fact that these commercial

398

00:16:28,670 --> 00:16:26,550

entities haven't woken up to the fact

399

00:16:30,650 --> 00:16:28,680

that there is an audience for this even

400

00:16:32,090 --> 00:16:30,660

in a limited way and they've got to work

401
00:16:33,470 --> 00:16:32,100
harder to find it where if they get

402
00:16:36,230 --> 00:16:33,480
given something it's a bit junkie they

403
00:16:37,879 --> 00:16:36,240
can just throw it on Illi don't agree

404
00:16:40,519 --> 00:16:37,889
that that there is an audience out there

405
00:16:43,340 --> 00:16:40,529
that's not being addressed I think that

406
00:16:45,860 --> 00:16:43,350
all audiences respond to sensational

407
00:16:48,230 --> 00:16:45,870
programming and the problem is that it's

408
00:16:51,049 --> 00:16:48,240
just really easy to make up crap and

409
00:16:54,110 --> 00:16:51,059
have sensational programming and there's

410
00:16:57,470 --> 00:16:54,120
no real financial upside to putting in

411
00:16:59,299 --> 00:16:57,480
the extra work to make non crap equally

412
00:16:59,850 --> 00:16:59,309
sensational it can be done don't get me

413
00:17:01,290 --> 00:16:59,860

wrong I'm can

414

00:17:03,060 --> 00:17:01,300

vincit it can be none i'm happy to step

415

00:17:06,299 --> 00:17:03,070

up and do it someone just needs to try

416

00:17:07,650 --> 00:17:06,309

to check you've made a couple of pilots

417

00:17:09,449 --> 00:17:07,660

in your time and you've put it forward

418

00:17:12,090 --> 00:17:09,459

and all that kind of thing and what's a

419

00:17:13,740 --> 00:17:12,100

feedback do you normally get to do they

420

00:17:15,329 --> 00:17:13,750

actually say or we think this is a bit

421

00:17:17,429 --> 00:17:15,339

too arrow diet for the audience they

422

00:17:20,160 --> 00:17:17,439

actually use those kind of words yes

423

00:17:21,630 --> 00:17:20,170

very much in fact we're they're not

424

00:17:24,299 --> 00:17:21,640

scared to tell you you're just being too

425

00:17:25,559 --> 00:17:24,309

smart mate no I mean they they want the

426

00:17:27,960 --> 00:17:25,569

shows that they want and they're happy

427

00:17:30,299 --> 00:17:27,970

to tell you exactly what they want they

428

00:17:31,950 --> 00:17:30,309

told us that we've won pilot that we

429

00:17:34,590 --> 00:17:31,960

made call this kept ologist where we had

430

00:17:36,299 --> 00:17:34,600

a team of expert PhDs and everything we

431

00:17:39,060 --> 00:17:36,309

would go out to the scene and debunk the

432

00:17:40,470 --> 00:17:39,070

pseudoscience and they told us straight

433

00:17:42,270 --> 00:17:40,480

out the first thing we would do is fire

434

00:17:43,560 --> 00:17:42,280

your cast and hire a bunch of twenty

435

00:17:46,680 --> 00:17:43,570

something year old people who chase

436

00:17:48,060 --> 00:17:46,690

ghosts and when we told them hey the

437

00:17:49,560 --> 00:17:48,070

selling point is that these people know

438

00:17:51,180 --> 00:17:49,570

what they're talking about that's really

439

00:17:53,460 --> 00:17:51,190

good information they couldn't care less

440

00:17:54,570 --> 00:17:53,470

they want sensational information they

441

00:17:56,520 --> 00:17:54,580

don't care whether the people know what

442

00:17:58,470 --> 00:17:56,530

they're talking about or not so how do

443

00:17:59,850 --> 00:17:58,480

you select a topic for skip to it each

444

00:18:01,500 --> 00:17:59,860

week you said there's always so many to

445

00:18:02,880 --> 00:18:01,510

choose from you're not going with

446

00:18:04,799 --> 00:18:02,890

sensationalism you're going with

447

00:18:06,590 --> 00:18:04,809

topicality sometimes but how do you make

448

00:18:08,700 --> 00:18:06,600

your selection it's just something

449

00:18:10,890 --> 00:18:08,710

people send them to me first of all so I

450

00:18:12,930 --> 00:18:10,900

always have a massive list of ideas to

451
00:18:16,140 --> 00:18:12,940
go through and it's just something that

452
00:18:18,510 --> 00:18:16,150
whatever whatever pics my might not my

453
00:18:24,110 --> 00:18:18,520
funny bone my skeptical bone but what

454
00:18:26,340 --> 00:18:24,120
just that what Oh me use language

455
00:18:28,110 --> 00:18:26,350
whatever gets me excited because it

456
00:18:30,299 --> 00:18:28,120
seems like an interesting topic to

457
00:18:31,350 --> 00:18:30,309
research because I so many of them

458
00:18:32,549 --> 00:18:31,360
fascinating the one that's what I'm

459
00:18:34,320 --> 00:18:32,559
working on right now is there's a bridge

460
00:18:36,150 --> 00:18:34,330
in Scotland where dogs have been

461
00:18:38,370 --> 00:18:36,160
committing suicide jumping off the

462
00:18:39,900 --> 00:18:38,380
bridge now on the one hand there's not

463
00:18:40,980 --> 00:18:39,910

too much to say about that but on the

464

00:18:42,960 --> 00:18:40,990

other hand as well there's gotta be

465

00:18:45,780 --> 00:18:42,970

something going on there how do we find

466

00:18:47,669 --> 00:18:45,790

out what it is why do people believe

467

00:18:49,650 --> 00:18:47,679

that there's this legend does the legend

468

00:18:52,500 --> 00:18:49,660

actually exist has this actually been

469

00:18:54,360 --> 00:18:52,510

going on and if so what's the cause so

470

00:18:56,190 --> 00:18:54,370

there actually is a lot to talk about of

471

00:18:57,870 --> 00:18:56,200

all the phenomena of phenomena

472

00:19:00,210 --> 00:18:57,880

phenomenon you looked at over the years

473

00:19:02,039 --> 00:19:00,220

on skip tide which is always it's a

474

00:19:03,780 --> 00:19:02,049

great listen because I always as I leave

475

00:19:05,070 --> 00:19:03,790

work as I'm driving on the f3 from

476
00:19:06,840 --> 00:19:05,080
Newcastle to Sydney that's how I usually

477
00:19:08,400 --> 00:19:06,850
have a listen to it it's almost like my

478
00:19:10,799 --> 00:19:08,410
working weeks over it's a good little

479
00:19:11,200 --> 00:19:10,809
get into it then I get about 120 k and

480
00:19:13,090 --> 00:19:11,210
getting

481
00:19:15,340 --> 00:19:13,100
and there's no Brian's voice kind of a

482
00:19:16,539 --> 00:19:15,350
dangerous thing um what was like oh oh

483
00:19:18,580 --> 00:19:16,549
yeah well what has it been one thing

484
00:19:20,799 --> 00:19:18,590
you've looked at that you kinda wish was

485
00:19:22,180 --> 00:19:20,809
true of all the phenomena of all of all

486
00:19:23,919 --> 00:19:22,190
the ones you know and you know it could

487
00:19:25,480 --> 00:19:23,929
be true you just could be wrong but what

488
00:19:28,180 --> 00:19:25,490

is one of the things you go well that'd

489

00:19:30,669 --> 00:19:28,190

be great if it was true anything

490

00:19:34,000 --> 00:19:30,679

pertaining to what's essentially a human

491

00:19:35,909 --> 00:19:34,010

superpower anything like being the

492

00:19:38,470 --> 00:19:35,919

ability to read minds remote viewing

493

00:19:41,200 --> 00:19:38,480

being able to see things that with it

494

00:19:42,909 --> 00:19:41,210

with extrasensory perception even the

495

00:19:44,740 --> 00:19:42,919

stories you've heard where a car rolls

496

00:19:46,090 --> 00:19:44,750

over on top of someone and and the mom

497

00:19:48,460 --> 00:19:46,100

comes over and with superhuman strength

498

00:19:50,260 --> 00:19:48,470

lift up the car it turns out that

499

00:19:52,180 --> 00:19:50,270

there's a very limited amount of truth

500

00:19:54,070 --> 00:19:52,190

certainly not as much truth as that

501
00:19:56,019 --> 00:19:54,080
commonly believed all of these

502
00:19:57,430 --> 00:19:56,029
superpower type things we'd all love

503
00:19:59,380 --> 00:19:57,440
them to be true because we all wish we

504
00:20:01,149 --> 00:19:59,390
have superpowers and I think that's got

505
00:20:03,190 --> 00:20:01,159
a lot of the reason to do with why these

506
00:20:05,500 --> 00:20:03,200
beliefs are so are so popular with

507
00:20:07,029 --> 00:20:05,510
people now you've been to Australia you

508
00:20:08,950 --> 00:20:07,039
have good friend Richard Saunders and

509
00:20:10,120 --> 00:20:08,960
major Dunlop well how do you see the

510
00:20:11,830 --> 00:20:10,130
differences between the way the

511
00:20:14,380 --> 00:20:11,840
skepticism is approached in Australia

512
00:20:16,510 --> 00:20:14,390
and here in the US is a main difference

513
00:20:19,539 --> 00:20:16,520

you can spot the difference I can spot

514

00:20:22,779 --> 00:20:19,549

is that you guys have dr. Carl dr. Carl

515

00:20:25,060 --> 00:20:22,789

does so much for improving the public

516

00:20:26,649 --> 00:20:25,070

level of intelligence in Australia and

517

00:20:29,470 --> 00:20:26,659

the United States does not have the

518

00:20:31,419 --> 00:20:29,480

benefit of that I honestly give dr. Carl

519

00:20:35,409 --> 00:20:31,429

personally a lot of credit because I see

520

00:20:37,690 --> 00:20:35,419

a lot more per capita enthusiasm about

521

00:20:39,100 --> 00:20:37,700

science and skeptical thinking in

522

00:20:40,899 --> 00:20:39,110

Australia than I see in the United

523

00:20:42,490 --> 00:20:40,909

States you think it's cuz no one he

524

00:20:44,409 --> 00:20:42,500

wants to give someone a platform like

525

00:20:46,870 --> 00:20:44,419

that a national platform like the ABC is

526

00:20:48,700 --> 00:20:46,880

done with dr. Carl yeah i mean the u.s.

527

00:20:52,360 --> 00:20:48,710

is the head of cheap entertainment and

528

00:20:54,519 --> 00:20:52,370

cheap entertainment means just chasing

529

00:20:58,269 --> 00:20:54,529

ghosts so look out dr. Cal you got dr.

530

00:21:00,250 --> 00:20:58,279

oz yes we you know we her for a long

531

00:21:03,519 --> 00:21:00,260

time we had on the radio dr. Dean Adele

532

00:21:06,279 --> 00:21:03,529

and he was America's doctor and a great

533

00:21:08,260 --> 00:21:06,289

guy great skeptical analysis big

534

00:21:10,180 --> 00:21:08,270

opponent of alternative medicine and

535

00:21:13,000 --> 00:21:10,190

everything Dean Adele unfortunately

536

00:21:15,070 --> 00:21:13,010

retired and now America's doctor dr. oz

537

00:21:17,260 --> 00:21:15,080

and we have exactly the opposite a

538

00:21:19,720 --> 00:21:17,270

wholesale promoter of quackery and

539

00:21:21,519 --> 00:21:19,730

nonsense and I asked Michael Sherman a

540

00:21:23,289 --> 00:21:21,529

few other people recently have you found

541

00:21:25,060 --> 00:21:23,299

a great science website you've gone to

542

00:21:26,499 --> 00:21:25,070

recently obviously skipped or

543

00:21:27,789 --> 00:21:26,509

home is a place to go to get a lot of

544

00:21:29,169 --> 00:21:27,799

great information but is there a site

545

00:21:30,490 --> 00:21:29,179

you've been looking around the go wow

546

00:21:33,759 --> 00:21:30,500

it's a good one that you'd like to pick

547

00:21:36,159 --> 00:21:33,769

them in to us I I go to these websites

548

00:21:38,019 --> 00:21:36,169

all the time because i have i have

549

00:21:40,360 --> 00:21:38,029

interesting news stories that I put in

550

00:21:42,370 --> 00:21:40,370

my weekly email newsletter and I have a

551
00:21:43,539 --> 00:21:42,380
daily skep tied tweet that goes out on

552
00:21:45,519 --> 00:21:43,549
Twitter so I've got to come up with a

553
00:21:48,249 --> 00:21:45,529
lot of neat stuff and one of my

554
00:21:49,600 --> 00:21:48,259
favorites is New Scientist com I go

555
00:21:53,049 --> 00:21:49,610
there because they have a lot of good

556
00:21:56,289 --> 00:21:53,059
reporting on latest and greatest and of

557
00:21:59,259 --> 00:21:56,299
course scientificamerican.com popular

558
00:22:00,730 --> 00:21:59,269
site pops ID com saya mo what a

559
00:22:03,190 --> 00:22:00,740
scientific american i think it's i am

560
00:22:05,440 --> 00:22:03,200
calm and just so the people that have

561
00:22:06,850 --> 00:22:05,450
put in money to get me out here over

562
00:22:07,899 --> 00:22:06,860
this weekend could you just let them

563
00:22:09,970 --> 00:22:07,909

know that i have actually been working

564

00:22:11,830 --> 00:22:09,980

hard and have not been drinking with you

565

00:22:12,730 --> 00:22:11,840

at the bar every night well i will say

566

00:22:14,519 --> 00:22:12,740

this is the first time I've actually

567

00:22:17,799 --> 00:22:14,529

seen you at the conference this week

568

00:22:19,119 --> 00:22:17,809

that's not true of course no man is a

569

00:22:20,889 --> 00:22:19,129

great guy he's made a ton of friends

570

00:22:22,659 --> 00:22:20,899

here and and he's really quite one of

571

00:22:24,399 --> 00:22:22,669

the personalities of the conference but

572

00:22:25,749 --> 00:22:24,409

Brian great meeting you once again and I

573

00:22:28,450 --> 00:22:25,759

think it's your turn to come down under

574

00:22:30,460 --> 00:22:28,460

this time and I do mean the country I am

575

00:22:44,289 --> 00:22:30,470

there I am so there is no place I'd

576

00:22:50,150 --> 00:22:47,570

hi this is Tim Farley you probably know

577

00:22:52,940 --> 00:22:50,160

me from what's the harm net a catalog of

578

00:22:55,250 --> 00:22:52,950

the real world harm caused by lack of

579

00:22:58,400 --> 00:22:55,260

critical thinking but that's not my only

580

00:23:01,340 --> 00:22:58,410

project i present at skeptic events I

581

00:23:03,560 --> 00:23:01,350

post a daily skeptic history fact on

582

00:23:06,049 --> 00:23:03,570

Twitter and Facebook and I blog about

583

00:23:09,230 --> 00:23:06,059

using new techniques on the internet to

584

00:23:12,710 --> 00:23:09,240

advance skepticism come over to skept

585

00:23:15,799 --> 00:23:12,720

tools com and check out my latest ideas

586

00:23:22,940 --> 00:23:15,809

but first enjoy the rest of the skeptic

587

00:23:27,750 --> 00:23:22,950

zone now it's time for dr. Richie

588

00:23:32,799 --> 00:23:30,279

hello listeners and welcome to dr.

589

00:23:35,020 --> 00:23:32,809

Richie reports this week I present to

590

00:23:36,970 --> 00:23:35,030

you another update on the regulation of

591

00:23:39,580 --> 00:23:36,980

alternative medicine and complementary

592

00:23:41,470 --> 00:23:39,590

medicine in Australia and the news at

593

00:23:44,350 --> 00:23:41,480

first seems good although the devil is

594

00:23:46,480 --> 00:23:44,360

in the detail so imagine if you were

595

00:23:48,100 --> 00:23:46,490

given a homework assignment one taking

596

00:23:50,650 --> 00:23:48,110

weeks to complete and potentially

597

00:23:52,680 --> 00:23:50,660

costing you a fair amount of money the

598

00:23:55,000 --> 00:23:52,690

project is also complex and convoluted

599

00:23:57,340 --> 00:23:55,010

meaning you'll probably need to get some

600

00:23:59,470 --> 00:23:57,350

help from other people but there's a

601
00:24:01,690 --> 00:23:59,480
catch even though the project is

602
00:24:04,060 --> 00:24:01,700
compulsory and you must take a box to

603
00:24:06,520 --> 00:24:04,070
say you've completed it you don't need

604
00:24:07,899 --> 00:24:06,530
to hand it in in addition the chance

605
00:24:11,470 --> 00:24:07,909
that your teacher will check that you've

606
00:24:14,260 --> 00:24:11,480
done it is about twenty percent so with

607
00:24:16,090 --> 00:24:14,270
all this in mind would you do it this

608
00:24:17,980 --> 00:24:16,100
would have been the situation facing

609
00:24:19,779 --> 00:24:17,990
manufacturers of complementary and

610
00:24:21,039 --> 00:24:19,789
alternative medicine wanting to get

611
00:24:23,710 --> 00:24:21,049
their drugs included on the official

612
00:24:26,529 --> 00:24:23,720
government list of drugs if the proposed

613
00:24:28,570 --> 00:24:26,539

changes were introduced under the

614

00:24:30,520 --> 00:24:28,580

current system to get cams such as

615

00:24:32,380 --> 00:24:30,530

supplements and ear candles stamped with

616

00:24:35,919 --> 00:24:32,390

an official-looking number called an

617

00:24:37,570 --> 00:24:35,929

austell you apply online select from a

618

00:24:39,430 --> 00:24:37,580

list of pre-approved ingredients

619

00:24:41,470 --> 00:24:39,440

indicate that you have evidence that

620

00:24:43,600 --> 00:24:41,480

your product is useful and sit back and

621

00:24:45,909 --> 00:24:43,610

wait for notification that you're on the

622

00:24:47,919 --> 00:24:45,919

list but what appears to be part of a

623

00:24:49,990 --> 00:24:47,929

larger crackdown on alternative medicine

624

00:24:52,029 --> 00:24:50,000

or rather was part of a larger crackdown

625

00:24:54,610 --> 00:24:52,039

on alternative medicine and i'll get to

626

00:24:56,440 --> 00:24:54,620

that further in a moment the Australian

627

00:25:00,250 --> 00:24:56,450

Government is proposing to significantly

628

00:25:02,409 --> 00:25:00,260

tighten up what constitutes evidence now

629

00:25:04,390 --> 00:25:02,419

listeners might recall recent moves by

630

00:25:06,399 --> 00:25:04,400

the government in Australia to remove 30

631

00:25:09,370 --> 00:25:06,409

million dollars in subsidies for cam

632

00:25:11,169 --> 00:25:09,380

from our public health system so this

633

00:25:13,510 --> 00:25:11,179

could potentially affect rebates for

634

00:25:15,279 --> 00:25:13,520

homeopathy aromatherapy ear candling

635

00:25:17,620 --> 00:25:15,289

crystal therapy flower essences

636

00:25:20,020 --> 00:25:17,630

iridology kinesiology and that tropi

637

00:25:21,700 --> 00:25:20,030

the-- professor Ken Harvey who was an

638

00:25:24,640 --> 00:25:21,710

outspoken advocate for evidence-based

639

00:25:26,380 --> 00:25:24,650

medicine welcome this move saying if

640

00:25:28,419 --> 00:25:26,390

there is no good evidence that they are

641

00:25:30,789 --> 00:25:28,429

better than a placebo then cam should

642

00:25:33,850 --> 00:25:30,799

not be funded by the taxpayer and of

643

00:25:35,710 --> 00:25:33,860

course I agree with this in addition

644

00:25:38,350 --> 00:25:35,720

following the findings by the UK

645

00:25:40,710 --> 00:25:38,360

government in 2010 that homeopathy was

646

00:25:42,390 --> 00:25:40,720

no more effective than placebo

647

00:25:44,820 --> 00:25:42,400

a draft statement from the Australian

648

00:25:47,010 --> 00:25:44,830

Government was leaked to stating that it

649

00:25:48,750 --> 00:25:47,020

was quote unethical for health

650

00:25:50,760 --> 00:25:48,760

practitioners to treat patients using

651
00:25:53,220 --> 00:25:50,770
homeopathy for the reason that

652
00:25:56,039 --> 00:25:53,230
homeopathy has not been shown to be

653
00:25:58,140 --> 00:25:56,049
efficacious now curiously homeopathy

654
00:25:59,580 --> 00:25:58,150
does not qualify for regulation by the

655
00:26:02,010 --> 00:25:59,590
Australian Government because in most

656
00:26:06,659 --> 00:26:02,020
cases the potions are considered to

657
00:26:08,850 --> 00:26:06,669
dilute to pose any risk to consumers so

658
00:26:11,820 --> 00:26:08,860
the proposed changes to the regulation

659
00:26:14,370 --> 00:26:11,830
of cam have the cam industry crying that

660
00:26:17,399 --> 00:26:14,380
the end is nigh and why would this be

661
00:26:19,289 --> 00:26:17,409
well because if this proposal that

662
00:26:21,720 --> 00:26:19,299
evidence must now come in the form of an

663
00:26:23,580 --> 00:26:21,730

expert report it would consist of a

664

00:26:25,260 --> 00:26:23,590

comprehensive analysis of all the

665

00:26:27,810 --> 00:26:25,270

scientific evidence for the product

666

00:26:30,210 --> 00:26:27,820

proposed going back at least 10 years

667

00:26:33,360 --> 00:26:30,220

and sourced from at least two different

668

00:26:35,850 --> 00:26:33,370

scientific databases the government has

669

00:26:39,500 --> 00:26:35,860

also indicated that not just any old

670

00:26:42,060 --> 00:26:39,510

studies would do citing meta analyses as

671

00:26:43,620 --> 00:26:42,070

able to produce the evidence that most

672

00:26:44,970 --> 00:26:43,630

closely reflects the health benefits

673

00:26:48,240 --> 00:26:44,980

associated with a particular

674

00:26:50,220 --> 00:26:48,250

intervention and additionally and

675

00:26:52,140 --> 00:26:50,230

importantly the studies presented as

676
00:26:55,409 --> 00:26:52,150
evidence must specifically support the

677
00:26:57,240 --> 00:26:55,419
claims of the product so the proposed

678
00:26:59,820 --> 00:26:57,250
document says that if the product claims

679
00:27:01,919 --> 00:26:59,830
to be effective at weight loss studies

680
00:27:04,080 --> 00:27:01,929
that described body reshaping or improve

681
00:27:07,950 --> 00:27:04,090
muscle mass are not acceptable as

682
00:27:09,539 --> 00:27:07,960
evidence so as you can imagine this task

683
00:27:11,250 --> 00:27:09,549
of putting together such an expert

684
00:27:14,279 --> 00:27:11,260
report is gargantuan and time-consuming

685
00:27:15,690 --> 00:27:14,289
and testament to this in the proposals

686
00:27:17,399 --> 00:27:15,700
put up by the government they

687
00:27:19,230 --> 00:27:17,409
recommended that applicants seek the

688
00:27:22,320 --> 00:27:19,240

assistance of a librarian to help in

689

00:27:25,649 --> 00:27:22,330

collating the expert report and that's

690

00:27:28,649 --> 00:27:25,659

not all the draft report even defines

691

00:27:30,080 --> 00:27:28,659

what constitutes an expert they must

692

00:27:32,460 --> 00:27:30,090

have either a specialist medical

693

00:27:34,380 --> 00:27:32,470

qualification or a tertiary degree of at

694

00:27:36,720 --> 00:27:34,390

least three years duration in a health

695

00:27:39,200 --> 00:27:36,730

profession they must also have completed

696

00:27:41,360 --> 00:27:39,210

either a course in critical appraisal or

697

00:27:44,370 --> 00:27:41,370

biostatistics from a tertiary

698

00:27:46,350 --> 00:27:44,380

institution or hold a PhD in a

699

00:27:48,990 --> 00:27:46,360

scientific or health-related discipline

700

00:27:51,810 --> 00:27:49,000

now that's a lot of letters after one's

701
00:27:54,540 --> 00:27:51,820
name and people with that many

702
00:27:56,910 --> 00:27:54,550
qualifications generally don't give that

703
00:27:59,160 --> 00:27:56,920
I'm for free at least not as much time

704
00:28:02,040 --> 00:27:59,170
as such a detailed report would require

705
00:28:03,450 --> 00:28:02,050
but here's the rub listeners if you're

706
00:28:05,130 --> 00:28:03,460
thinking what a great initiative from

707
00:28:07,020 --> 00:28:05,140
the government and what a significant

708
00:28:08,910 --> 00:28:07,030
step forward in the regulation of cam in

709
00:28:10,980 --> 00:28:08,920
Australia that may I remind you about

710
00:28:13,170 --> 00:28:10,990
the opening phrase of them report I

711
00:28:15,330 --> 00:28:13,180
described one of the major flaws in this

712
00:28:17,250 --> 00:28:15,340
otherwise genius legislation and that is

713
00:28:18,900 --> 00:28:17,260

that the expert report would not be

714

00:28:23,280 --> 00:28:18,910
required to be submitted with the

715

00:28:24,840 --> 00:28:23,290
application for a product so applicants

716

00:28:26,040 --> 00:28:24,850
would have to state that they had it

717

00:28:27,930 --> 00:28:26,050
that they'd done it that they'd

718

00:28:30,500 --> 00:28:27,940
completed it but they did not need to

719

00:28:33,150 --> 00:28:30,510
produce it unless they were audited and

720

00:28:35,550 --> 00:28:33,160
the chances of them being audited is

721

00:28:37,170 --> 00:28:35,560
only around twenty percent now since I

722

00:28:38,670 --> 00:28:37,180
wrote the report on this proposed

723

00:28:41,250 --> 00:28:38,680
legislation there have been even more

724

00:28:43,800 --> 00:28:41,260
recent updates and that update is that

725

00:28:46,230 --> 00:28:43,810
because the cam industry was so incensed

726

00:28:48,120 --> 00:28:46,240

by the possibility of having to present

727

00:28:50,220 --> 00:28:48,130

evidence of efficacy for their products

728

00:28:52,500 --> 00:28:50,230

they jumped up and down and the

729

00:28:54,540 --> 00:28:52,510

government decided to cancel this idea

730

00:28:56,730 --> 00:28:54,550

so what looks to be a really great step

731

00:28:59,160 --> 00:28:56,740

forward in tightening up the regulation

732

00:29:02,670 --> 00:28:59,170

of cam in Australia has come to nothing

733

00:29:06,590 --> 00:29:02,680

and until next time this has been dr.

734

00:29:12,180 --> 00:29:09,420

dr. Rachel Dunlop is one of Australia's

735

00:29:13,580 --> 00:29:12,190

foremost media commentators in matters

736

00:29:16,140 --> 00:29:13,590

concerning so-called alternative

737

00:29:19,950 --> 00:29:16,150

medicine she has appeared on national

738

00:29:22,230 --> 00:29:19,960

radio and national television dr. H E is

739

00:29:26,190 --> 00:29:22,240

available for interviews and you can

740

00:29:40,839 --> 00:29:26,200

contact her at Rachel at skeptic zone

741

00:29:45,589 --> 00:29:44,089

hi I'm on it oh yeah Chris 10 Aviva tips

742

00:29:47,899 --> 00:29:45,599

that I so emotional eater of a skeptic

743

00:29:50,089 --> 00:29:47,909

zone I'm skeptical in la liga the VINs

744

00:29:51,949 --> 00:29:50,099

not reblog gear or pivot f a podcast of

745

00:29:54,619 --> 00:29:51,959

reading and skip sistemas leaks in this

746

00:29:55,849 --> 00:29:54,629

drama central to our skip crystal demo or

747

00:29:58,099 --> 00:29:55,859

higher publicize the deeps con

748

00:29:59,779 --> 00:29:58,109

articulate and calendar / activity or

749

00:30:01,579 --> 00:29:59,789

link eternity research it skips this

750

00:30:03,199 --> 00:30:01,589

blog in up to 30m late autodesk ateres

751
00:30:18,729 --> 00:30:03,209
hefty performance so stick Kingdom or

752
00:30:23,899 --> 00:30:21,079
Eugenie Scott is one of my very favorite

753
00:30:28,099 --> 00:30:23,909
people although we have our civilized

754
00:30:30,379 --> 00:30:28,109
disagreements as I hotel in the battle

755
00:30:33,349 --> 00:30:30,389
for rationality in America especially in

756
00:30:35,299 --> 00:30:33,359
American education my own subject of

757
00:30:38,359 --> 00:30:35,309
evolutionary biology is in the front

758
00:30:40,219 --> 00:30:38,369
blind trench and dr. Scott is the

759
00:30:42,560 --> 00:30:40,229
commanding officer the master strategist

760
00:30:44,930 --> 00:30:42,570
on our side the general in charge of

761
00:30:47,149 --> 00:30:44,940
intelligence and strategic planning as

762
00:30:50,509 --> 00:30:47,159
well as the field officer in charge of

763
00:30:53,119 --> 00:30:50,519

tactics and battle order yet she does it

764

00:30:56,089 --> 00:30:53,129

all with the most unmilitary grace and

765

00:30:57,529 --> 00:30:56,099

charm it's impossible to meet Jeanne

766

00:31:01,009 --> 00:30:57,539

without loving her whether you agree

767

00:31:02,569 --> 00:31:01,019

with her or not not surprisingly her

768

00:31:05,449 --> 00:31:02,579

distinction has been recognized with

769

00:31:11,180 --> 00:31:05,459

numerous honorary degrees and and other

770

00:31:13,579 --> 00:31:11,190

honest too many to list of course no one

771

00:31:15,440 --> 00:31:13,589

person could achieve so much on her own

772

00:31:17,539 --> 00:31:15,450

the mother of Jeannie's great strengths

773

00:31:20,299 --> 00:31:17,549

is that she's a team player as well as a

774

00:31:23,599 --> 00:31:20,309

leader she's built up the National

775

00:31:25,609 --> 00:31:23,609

Center for Science Education NCSE so

776

00:31:29,509 --> 00:31:25,619

that it's now a formidable combination

777

00:31:32,419 --> 00:31:29,519

of think tank and commando unit of shock

778

00:31:34,579 --> 00:31:32,429

troops I was made to feel very welcome

779

00:31:36,319 --> 00:31:34,589

and I visited them in their offices in

780

00:31:38,719 --> 00:31:36,329

California a couple of years ago and

781

00:31:41,690 --> 00:31:38,729

were privileged to sit in as a guest in

782

00:31:42,949 --> 00:31:41,700

one of the weekly brainstorming meetings

783

00:31:46,509 --> 00:31:42,959

chaired with humor and good fellowship

784

00:31:49,309 --> 00:31:46,519

by Jeanne there's a delightful air of

785

00:31:52,580 --> 00:31:49,319

informal competence you get the feeling

786

00:31:54,350 --> 00:31:52,590

they're not a wash with money unlike the

787

00:31:57,740 --> 00:31:54,360

ludicrously ill named Discovery

788

00:31:59,600 --> 00:31:57,750

Institute but the NCSE is very much a

789

00:32:03,140 --> 00:31:59,610

wash with ability intelligence

790

00:32:05,299 --> 00:32:03,150

initiative loyalty of drive and the

791

00:32:07,820 --> 00:32:05,309

inspiration for that kind of excellence

792

00:32:11,750 --> 00:32:07,830

comes from the top from Eugenie Scott

793

00:32:13,820 --> 00:32:11,760

herself I said we have our civilized

794

00:32:16,730 --> 00:32:13,830

disagreements and she wouldn't wish me

795

00:32:19,430 --> 00:32:16,740

to duck the issue I think she's soft on

796

00:32:21,470 --> 00:32:19,440

religion she is of course not religious

797

00:32:23,000 --> 00:32:21,480

herself though she'll hate me for saying

798

00:32:25,760 --> 00:32:23,010

it she's too intelligent and

799

00:32:28,399 --> 00:32:25,770

well-informed to be religious but she

800

00:32:32,000 --> 00:32:28,409

respects religion in a way that i do not

801
00:32:34,190 --> 00:32:32,010
i can imagine good tactical reasons for

802
00:32:35,480 --> 00:32:34,200
pretending to respect religion the same

803
00:32:37,490 --> 00:32:35,490
reason that i like to think lead

804
00:32:41,510 --> 00:32:37,500
president obama to profess Christianity

805
00:32:44,990 --> 00:32:41,520
the same reasons that lead 534 out of

806
00:32:47,630 --> 00:32:45,000
535 members of Congress to claim to be

807
00:32:52,549 --> 00:32:47,640
religious a statistical implausibility

808
00:32:54,529 --> 00:32:52,559
if not impossible t but to pretend to

809
00:32:57,260 --> 00:32:54,539
respect religion is different from

810
00:33:01,760 --> 00:32:57,270
really respecting religion which is the

811
00:33:04,310 --> 00:33:01,770
one place i cannot go with dr. Scott we

812
00:33:06,950 --> 00:33:04,320
are today celebrating a great science

813
00:33:09,820 --> 00:33:06,960

educator a gallon fighter for the cause

814

00:33:12,049 --> 00:33:09,830

of science and reason a brilliant woman

815

00:33:13,970 --> 00:33:12,059

universally admired role model of the

816

00:33:17,360 --> 00:33:13,980

height of her very considerable powers

817

00:33:19,250 --> 00:33:17,370

jeanne is a true scholar deeply read not

818

00:33:21,110 --> 00:33:19,260

just in the scientific literature but

819

00:33:24,919 --> 00:33:21,120

also in the bizarre counterculture

820

00:33:27,649 --> 00:33:24,929

anti-culture of creationism when she

821

00:33:30,950 --> 00:33:27,659

reads Duane Gish or William demski ken

822

00:33:33,380 --> 00:33:30,960

ham or Michael Behe Philip Johnson or

823

00:33:35,419 --> 00:33:33,390

even Ray Comfort the banana man she

824

00:33:38,299 --> 00:33:35,429

doesn't as I might simply hurl a book at

825

00:33:40,279 --> 00:33:38,309

the wall she reads it studies the

826

00:33:42,680 --> 00:33:40,289

methods of these people learns their

827

00:33:44,750 --> 00:33:42,690

tricks cross-references they're ignorant

828

00:33:47,560 --> 00:33:44,760

mountebank re perhaps them in

829

00:33:49,490 --> 00:33:47,570

inconsistency unmask their double-talk

830

00:33:52,580 --> 00:33:49,500

exposes their deceits and their

831

00:33:55,039 --> 00:33:52,590

pretensions it doesn't bonus she's

832

00:33:57,440 --> 00:33:55,049

recently opened a second front against

833

00:33:59,570 --> 00:33:57,450

climate change deniers and without

834

00:34:01,610 --> 00:33:59,580

neglecting the earlier campaign has

835

00:34:06,320 --> 00:34:01,620

rallied her forces to start all over

836

00:34:08,629 --> 00:34:06,330

again Eugenie Scott

837

00:34:11,030 --> 00:34:08,639

is a powerful friend to our rationalist

838

00:34:14,270 --> 00:34:11,040

movement inspiring people to take action

839

00:34:15,889 --> 00:34:14,280

to become involved if there's one honor

840

00:34:18,169 --> 00:34:15,899

greater than all others that we could

841

00:34:22,070 --> 00:34:18,179

bestow on her it would be to support her

842

00:34:24,820 --> 00:34:22,080

work but financially and in action we

843

00:34:27,619 --> 00:34:24,830

need more people to defend science and

844

00:34:29,750 --> 00:34:27,629

hardworking and dedicated as Jeanne and

845

00:34:33,589 --> 00:34:29,760

her colleagues are they cannot do it

846

00:34:36,260 --> 00:34:33,599

alone so I now make a personal appeal to

847

00:34:40,010 --> 00:34:36,270

all of you to visit the NCSE website and

848

00:34:42,889 --> 00:34:40,020

see what you can do to help I feel

849

00:34:52,210 --> 00:34:42,899

deeply honored that Eugenie Scott has

850

00:34:56,750 --> 00:34:55,339

I'm Eugenie Scott I'm the executive

851
00:34:59,690 --> 00:34:56,760
director of the National Center for

852
00:35:01,370 --> 00:34:59,700
Science Education we are in Oakland

853
00:35:02,839 --> 00:35:01,380
California where a membership

854
00:35:05,000 --> 00:35:02,849
organization most of our members are

855
00:35:07,900 --> 00:35:05,010
scientists teachers people concerned

856
00:35:10,210 --> 00:35:07,910
about church and state separation we

857
00:35:13,070 --> 00:35:10,220
monitor the creationism and evolution

858
00:35:15,380 --> 00:35:13,080
controversy and we try to help teachers

859
00:35:18,589 --> 00:35:15,390
and school boards and legislators and

860
00:35:22,730 --> 00:35:18,599
citizens to cope with pressures against

861
00:35:24,440 --> 00:35:22,740
the teaching of evolution so in the 25

862
00:35:26,750 --> 00:35:24,450
years or so that we've been doing this

863
00:35:29,620 --> 00:35:26,760

we have found that there are three

864

00:35:32,750 --> 00:35:29,630

arguments that pretty much any

865

00:35:36,650 --> 00:35:32,760

creationist contention can be put into

866

00:35:38,030 --> 00:35:36,660

if it's a video or a letter to the

867

00:35:40,940 --> 00:35:38,040

editor our comment on a talk show

868

00:35:42,650 --> 00:35:40,950

whatever it'll pretty much fall into one

869

00:35:45,050 --> 00:35:42,660

of these three categories we call them

870

00:35:46,609 --> 00:35:45,060

the pillars of creationism I'd like to

871

00:35:49,790 --> 00:35:46,619

tell you a little bit about the pillars

872

00:35:53,720 --> 00:35:49,800

and why they're important to recognize

873

00:35:55,640 --> 00:35:53,730

because you as a scientist or a citizen

874

00:35:58,339 --> 00:35:55,650

who enjoy science who is interested in

875

00:36:01,130 --> 00:35:58,349

science I hope is concerned about what's

876
00:36:03,500 --> 00:36:01,140
going on in American public schools and

877
00:36:07,099 --> 00:36:03,510
the science classes there because at

878
00:36:10,370 --> 00:36:07,109
ncsc we hear a lot about pressures from

879
00:36:12,349 --> 00:36:10,380
school boards upon curriculum we hear

880
00:36:14,780 --> 00:36:12,359
pressures upon individual teachers from

881
00:36:16,670 --> 00:36:14,790
parents we hear about pressures from

882
00:36:19,130 --> 00:36:16,680
school boards or state legislators that

883
00:36:20,090 --> 00:36:19,140
trickle down to the classroom teacher as

884
00:36:21,860 --> 00:36:20,100
well

885
00:36:23,960 --> 00:36:21,870
and in all of these cases there's

886
00:36:26,600 --> 00:36:23,970
there's been this continuing story for

887
00:36:29,270 --> 00:36:26,610
over 30 years of people who don't want

888
00:36:31,550 --> 00:36:29,280

kids to learn evolution and even though

889

00:36:33,170 --> 00:36:31,560

the there have been various ins and outs

890

00:36:35,990 --> 00:36:33,180

of the creation and evolution

891

00:36:39,080 --> 00:36:36,000

controversy and the creationists have

892

00:36:41,480 --> 00:36:39,090

always lost in court this is in the

893

00:36:43,550 --> 00:36:41,490

evolving targets because creationism

894

00:36:44,840 --> 00:36:43,560

morphs shall we say in response to the

895

00:36:47,510 --> 00:36:44,850

legal environment there's a natural

896

00:36:49,850 --> 00:36:47,520

selection going on here and we have

897

00:36:52,460 --> 00:36:49,860

different forms of creationism and the

898

00:36:54,650 --> 00:36:52,470

current form of creationism that we're

899

00:36:58,070 --> 00:36:54,660

coping with it we're monitoring at NCSE

900

00:37:01,090 --> 00:36:58,080

today is perhaps the most difficult to

901
00:37:03,650 --> 00:37:01,100
fight because it doesn't appear to be

902
00:37:06,290 --> 00:37:03,660
the kind of thing you can challenge

903
00:37:08,360 --> 00:37:06,300
directly in court at any rate I'll get

904
00:37:10,430 --> 00:37:08,370
to that in a moment so let me tell you

905
00:37:12,580 --> 00:37:10,440
about the pillars of creationism because

906
00:37:15,340 --> 00:37:12,590
as a concerned citizen as a scientist I

907
00:37:18,380 --> 00:37:15,350
hope you'd be able to recognize them and

908
00:37:20,030 --> 00:37:18,390
understand the refutations of the

909
00:37:22,430 --> 00:37:20,040
pillars so that you can hopefully

910
00:37:24,440 --> 00:37:22,440
contribute to your own community or

911
00:37:29,360 --> 00:37:24,450
state and help to improve science

912
00:37:31,550 --> 00:37:29,370
education the first pillar is the pillar

913
00:37:34,940 --> 00:37:31,560

which challenges the science of

914

00:37:36,980 --> 00:37:34,950

evolution the claim is often made that

915

00:37:39,440 --> 00:37:36,990

evolution is a theory in crisis that

916

00:37:40,940 --> 00:37:39,450

scientists are giving up on evolution

917

00:37:43,360 --> 00:37:40,950

that more and more scientists are

918

00:37:45,290 --> 00:37:43,370

rejecting evolution as a failed theory

919

00:37:47,330 --> 00:37:45,300

that will come as a surprise to

920

00:37:49,340 --> 00:37:47,340

scientists but this is the claim that is

921

00:37:52,160 --> 00:37:49,350

made and it's made very very loudly on

922

00:37:54,470 --> 00:37:52,170

talk radio's on blogs and letters to the

923

00:37:57,020 --> 00:37:54,480

editor and so forth the second pillar of

924

00:38:00,100 --> 00:37:57,030

creationism is an ideological pillar

925

00:38:02,480 --> 00:38:00,110

it's the religious ideology that

926

00:38:04,100 --> 00:38:02,490

evolution is incompatible with my

927

00:38:06,620 --> 00:38:04,110

religious who's there for evolution

928

00:38:09,650 --> 00:38:06,630

cannot be true and this takes various

929

00:38:11,680 --> 00:38:09,660

forms the strongest form is if an

930

00:38:14,810 --> 00:38:11,690

individual is a biblical literalist or a

931

00:38:17,030 --> 00:38:14,820

qur'anic literalist this this point of

932

00:38:18,980 --> 00:38:17,040

view is present and conservative

933

00:38:21,380 --> 00:38:18,990

christians conservative Muslims and

934

00:38:23,600 --> 00:38:21,390

conservative choose the Middle Eastern

935

00:38:27,590 --> 00:38:23,610

monotheism's if you will the argument is

936

00:38:30,020 --> 00:38:27,600

made that my holy books when I look at

937

00:38:32,330 --> 00:38:30,030

them I see special creation God created

938

00:38:33,980 --> 00:38:32,340

everything specially in its present form

939

00:38:36,980 --> 00:38:33,990

over a short period

940

00:38:39,560 --> 00:38:36,990

I'm 6,000 years ago therefore evolution

941

00:38:40,910 --> 00:38:39,570

cannot be true and indeed evolution is

942

00:38:44,090 --> 00:38:40,920

incompatible with that particular

943

00:38:46,010 --> 00:38:44,100

religious view some people reject

944

00:38:48,230 --> 00:38:46,020

evolution because of a human

945

00:38:50,480 --> 00:38:48,240

exceptionalism perspective that that

946

00:38:52,730 --> 00:38:50,490

human beings are so superior to all

947

00:38:55,190 --> 00:38:52,740

other organisms God must have created

948

00:38:58,340 --> 00:38:55,200

especially there's a lot of ways that

949

00:39:00,530 --> 00:38:58,350

that religion is used to oppose the

950

00:39:03,230 --> 00:39:00,540

teaching of evolution the third pillar

951
00:39:07,160 --> 00:39:03,240
is the fairness pillar the call it's a

952
00:39:10,430 --> 00:39:07,170
cultural concept really it's a pillar

953
00:39:14,000 --> 00:39:10,440
where the anti evolutionists are tapping

954
00:39:17,870 --> 00:39:14,010
into some Theory deeply-held american

955
00:39:21,800 --> 00:39:17,880
cultural positions fairness balance free

956
00:39:23,750 --> 00:39:21,810
speech letting everybody speak you know

957
00:39:25,370 --> 00:39:23,760
town hall meetings all that sort of

958
00:39:27,050 --> 00:39:25,380
thing and and these are really great

959
00:39:30,109 --> 00:39:27,060
cultural values there's nothing wrong

960
00:39:32,570 --> 00:39:30,119
with them it's just that they are

961
00:39:34,310 --> 00:39:32,580
misapplied shall we say when it comes to

962
00:39:37,940 --> 00:39:34,320
how we decide what a kid's you learn in

963
00:39:40,910 --> 00:39:37,950

school now how can you as a concerned

964

00:39:43,250 --> 00:39:40,920

citizen deal with these three pillars as

965

00:39:45,020 --> 00:39:43,260

I say whatever argument you hear you can

966

00:39:47,540 --> 00:39:45,030

probably fit it into one of these three

967

00:39:49,599 --> 00:39:47,550

so if I can just give you the generic

968

00:39:53,480 --> 00:39:49,609

refutations then you can go from there

969

00:39:56,030 --> 00:39:53,490

there's plenty of evidence for the

970

00:40:00,230 --> 00:39:56,040

particular on various websites on NCS

971

00:40:02,060 --> 00:40:00,240

these websites and others the evolution

972

00:40:04,130 --> 00:40:02,070

is weak science pillar let's take a look

973

00:40:06,349 --> 00:40:04,140

at that first well the best way to

974

00:40:08,120 --> 00:40:06,359

refute that is to help your audience

975

00:40:11,180 --> 00:40:08,130

help the person you're talking to

976
00:40:14,660 --> 00:40:11,190
understand that in fact the consensus in

977
00:40:16,430 --> 00:40:14,670
the scientific community supporting the

978
00:40:19,400 --> 00:40:16,440
idea that evolution has happened the

979
00:40:21,590 --> 00:40:19,410
universe is old etc is enormously strong

980
00:40:23,570 --> 00:40:21,600
there have been many surveys of

981
00:40:26,750 --> 00:40:23,580
scientists there's been a lot of survey

982
00:40:29,930 --> 00:40:26,760
research of scientists showing upwards

983
00:40:32,840 --> 00:40:29,940
of the high ninety percent of scientists

984
00:40:34,849 --> 00:40:32,850
accept the idea of evolution it's hard

985
00:40:36,470 --> 00:40:34,859
to get scientists to agree on whether

986
00:40:39,080 --> 00:40:36,480
it's raining outside but there's this

987
00:40:42,170 --> 00:40:39,090
really really strong acceptance

988
00:40:44,359 --> 00:40:42,180

consensus view that evolution is valid

989

00:40:47,000 --> 00:40:44,369

science but the public doesn't know this

990

00:40:47,720 --> 00:40:47,010

in the few surveys that have been done

991

00:40:49,970 --> 00:40:47,730

where the

992

00:40:51,470 --> 00:40:49,980

members of the public have been asked do

993

00:40:53,780 --> 00:40:51,480

you think scientists agree that

994

00:40:56,530 --> 00:40:53,790

evolution has happened the difference

995

00:40:58,550 --> 00:40:56,540

between what the public thinks

996

00:40:59,990 --> 00:40:58,560

scientists believe in what scientists

997

00:41:02,990 --> 00:41:00,000

actually believe is like twenty thirty

998

00:41:05,120 --> 00:41:03,000

percent it's really a big disconnect so

999

00:41:08,150 --> 00:41:05,130

help the public understand that

1000

00:41:12,380 --> 00:41:08,160

evolution is valid science the second

1001

00:41:15,320 --> 00:41:12,390

pillar the religion pillar is best dealt

1002

00:41:17,599 --> 00:41:15,330

with by helping people understand that

1003

00:41:20,240 --> 00:41:17,609

there's a very wide diversity of opinion

1004

00:41:22,910 --> 00:41:20,250

within the Christian community I often

1005

00:41:24,590 --> 00:41:22,920

joke that I think more evolution is

1006

00:41:26,900 --> 00:41:24,600

taught in Catholic parochial schools

1007

00:41:29,030 --> 00:41:26,910

than in public schools because the

1008

00:41:31,520 --> 00:41:29,040

catholic church accepts something called

1009

00:41:33,650 --> 00:41:31,530

theistic evolution which is of course

1010

00:41:35,660 --> 00:41:33,660

evolution happened but it was the gut

1011

00:41:37,760 --> 00:41:35,670

way that God chose to bring about the

1012

00:41:39,620 --> 00:41:37,770

world according to his plan there's

1013

00:41:41,690 --> 00:41:39,630

varieties of theistic evolution out

1014

00:41:44,000 --> 00:41:41,700

there but it's basically an idea it's a

1015

00:41:45,830 --> 00:41:44,010

Christian theological idea that is fully

1016

00:41:48,650 --> 00:41:45,840

compatible with what science shows us

1017

00:41:51,520 --> 00:41:48,660

about living things evolving through

1018

00:41:56,000 --> 00:41:51,530

time Catholics mainstream protestants

1019

00:41:58,580 --> 00:41:56,010

official theology is in fact theistic

1020

00:42:01,130 --> 00:41:58,590

evolution so it is not the case that if

1021

00:42:02,990 --> 00:42:01,140

you are a Christian you have to reject

1022

00:42:05,300 --> 00:42:03,000

evolution some Christian views

1023

00:42:07,609 --> 00:42:05,310

absolutely but not all Christian views

1024

00:42:10,130 --> 00:42:07,619

most people think there's a dichotomy on

1025

00:42:12,590 --> 00:42:10,140

one side is atheist evolution on the

1026
00:42:14,000 --> 00:42:12,600
other side is Christian creationism but

1027
00:42:16,370 --> 00:42:14,010
that's false that's just empirically

1028
00:42:21,950 --> 00:42:16,380
wrong it's not a dichotomy it's a

1029
00:42:25,220 --> 00:42:21,960
continuum the third pillar the fairness

1030
00:42:27,650 --> 00:42:25,230
pillar is the most difficult one to deal

1031
00:42:29,930 --> 00:42:27,660
with because it is so strongly rooted in

1032
00:42:32,000 --> 00:42:29,940
American cultural traditions the

1033
00:42:35,240 --> 00:42:32,010
fairness pillar is best dealt with by

1034
00:42:38,480 --> 00:42:35,250
helping the public think about this a

1035
00:42:40,400 --> 00:42:38,490
little bit more more carefully obviously

1036
00:42:41,930 --> 00:42:40,410
we want debate in our society about a

1037
00:42:44,240 --> 00:42:41,940
lot of things people should be free to

1038
00:42:47,900 --> 00:42:44,250

express opinions people should be free

1039

00:42:50,240 --> 00:42:47,910

to argue vehemently about one position

1040

00:42:51,920 --> 00:42:50,250

or another one opinion or another that's

1041

00:42:53,690 --> 00:42:51,930

not really what we're talking about what

1042

00:42:56,359 --> 00:42:53,700

we're really talking about is a much

1043

00:42:58,700 --> 00:42:56,369

more narrow issue we're really talking

1044

00:43:00,740 --> 00:42:58,710

about what do you teach in high school

1045

00:43:01,480 --> 00:43:00,750

science class because that is where

1046

00:43:03,730 --> 00:43:01,490

these

1047

00:43:05,350 --> 00:43:03,740

policies that come to school boards or

1048

00:43:08,410 --> 00:43:05,360

the pressure that comes upon teachers

1049

00:43:10,300 --> 00:43:08,420

really come to what you should teach in

1050

00:43:13,060 --> 00:43:10,310

high school science class is no surprise

1051

00:43:16,090 --> 00:43:13,070

science and a high school science

1052

00:43:18,400 --> 00:43:16,100

teacher has the very important job of

1053

00:43:20,980 --> 00:43:18,410

picking from the huge array of subject

1054

00:43:23,740 --> 00:43:20,990

matter in say biology or physics or

1055

00:43:26,830 --> 00:43:23,750

chemistry or whatever that smaller range

1056

00:43:28,420 --> 00:43:26,840

of topics that is essential for young

1057

00:43:30,040 --> 00:43:28,430

learners who are just building an

1058

00:43:34,660 --> 00:43:30,050

understanding of that particular

1059

00:43:38,290 --> 00:43:34,670

scientific field in biology that one of

1060

00:43:40,420 --> 00:43:38,300

those core principles is evolution that

1061

00:43:43,780 --> 00:43:40,430

living things are related genetically in

1062

00:43:47,230 --> 00:43:43,790

this this huge genealogical tree of

1063

00:43:50,170 --> 00:43:47,240

living creatures through time so help

1064

00:43:53,050 --> 00:43:50,180

the public understand that we're not

1065

00:43:54,730 --> 00:43:53,060

talking about inhibiting anybody's free

1066

00:43:56,920 --> 00:43:54,740

speech we're not talking about science

1067

00:43:58,960 --> 00:43:56,930

being dogmatic and and forcing views

1068

00:44:01,270 --> 00:43:58,970

upon students we're talking about doing

1069

00:44:03,460 --> 00:44:01,280

the same thing in high school biology

1070

00:44:06,040 --> 00:44:03,470

class as we do in physics or chemistry

1071

00:44:09,609 --> 00:44:06,050

or for that matter mathematics and

1072

00:44:11,349 --> 00:44:09,619

English literature and geography we

1073

00:44:14,380 --> 00:44:11,359

teach the consensus view of the field

1074

00:44:16,359 --> 00:44:14,390

now if the creationists or the

1075

00:44:19,170 --> 00:44:16,369

intelligent design people or anybody

1076
00:44:21,670 --> 00:44:19,180
else who challenges evolution wants to

1077
00:44:23,170 --> 00:44:21,680
make the argument that they have a valid

1078
00:44:24,849 --> 00:44:23,180
science that deserves to be taught in

1079
00:44:27,520 --> 00:44:24,859
the public school classroom knock

1080
00:44:30,700 --> 00:44:27,530
yourself out but your job is to convince

1081
00:44:33,460 --> 00:44:30,710
the scientific community first what is

1082
00:44:36,180 --> 00:44:33,470
happening is that because of the

1083
00:44:38,980 --> 00:44:36,190
politicized nature of American education

1084
00:44:41,020 --> 00:44:38,990
curriculum decisions are made by elected

1085
00:44:42,700 --> 00:44:41,030
officials and elected officials are

1086
00:44:45,310 --> 00:44:42,710
looking over their shoulder two votes as

1087
00:44:47,730 --> 00:44:45,320
opposed to necessarily paying attention

1088
00:44:50,349 --> 00:44:47,740

to what's you know the best curriculum

1089

00:44:53,320 --> 00:44:50,359

because American education is

1090

00:44:56,200 --> 00:44:53,330

politicized there are pressures upon

1091

00:44:58,960 --> 00:44:56,210

teachers outside of science to change

1092

00:45:01,090 --> 00:44:58,970

the curriculum one way or the other they

1093

00:45:06,190 --> 00:45:01,100

should be protected from that students

1094

00:45:08,770 --> 00:45:06,200

should not be the the platform upon

1095

00:45:10,450 --> 00:45:08,780

which we fight the culture wars let the

1096

00:45:11,920 --> 00:45:10,460

creationists or the intelligent design

1097

00:45:13,810 --> 00:45:11,930

people or the anti-evolution is

1098

00:45:14,820 --> 00:45:13,820

demonstrate to the scientific community

1099

00:45:17,310 --> 00:45:14,830

that they have

1100

00:45:18,660 --> 00:45:17,320

valid views that evolution is either a

1101

00:45:20,520 --> 00:45:18,670

week science or that they've got a

1102

00:45:23,340 --> 00:45:20,530

better alternative and it'll trickle

1103

00:45:25,980 --> 00:45:23,350

down to the high school if it makes it

1104

00:45:29,610 --> 00:45:25,990

into the consensus they argue fairness

1105

00:45:33,450 --> 00:45:29,620

frankly to teach students that something

1106

00:45:36,090 --> 00:45:33,460

is not valid when there's such a strong

1107

00:45:38,700 --> 00:45:36,100

scientific consensus about it is the

1108

00:45:40,980 --> 00:45:38,710

most unfair thing you can do I would

1109

00:45:43,230 --> 00:45:40,990

hope that being familiar with the

1110

00:45:46,650 --> 00:45:43,240

refutation zuv the three pillars would

1111

00:45:48,360 --> 00:45:46,660

give you more confidence in standing up

1112

00:45:51,390 --> 00:45:48,370

for good science in your community if

1113

00:45:53,370 --> 00:45:51,400

you hear of a school board issue or some

1114

00:45:55,290 --> 00:45:53,380

state legislation or school board

1115

00:45:57,270 --> 00:45:55,300

legislation or if you even hear word

1116

00:45:59,820 --> 00:45:57,280

that one of your local teachers is

1117

00:46:01,650 --> 00:45:59,830

reluctant to teach evolution because she

1118

00:46:04,020 --> 00:46:01,660

or he feels that there is pressure from

1119

00:46:05,970 --> 00:46:04,030

the community I hope that you will stand

1120

00:46:09,300 --> 00:46:05,980

up for good science and the first thing

1121

00:46:11,580 --> 00:46:09,310

you can do is contact us at NCS ecomme

1122

00:46:13,980 --> 00:46:11,590

we can put you in touch with people in

1123

00:46:16,560 --> 00:46:13,990

your community who feel likewise we can

1124

00:46:18,360 --> 00:46:16,570

give you the ammunition so we say the

1125

00:46:21,780 --> 00:46:18,370

arguments that you can use on the

1126
00:46:23,940 --> 00:46:21,790
methods that you can use to make a good

1127
00:46:27,060 --> 00:46:23,950
argument to your local decision makers

1128
00:46:30,930 --> 00:46:27,070
because teachers need help we're we get

1129
00:46:33,000 --> 00:46:30,940
calls every week from teachers who want

1130
00:46:35,670 --> 00:46:33,010
some advice who want some support to

1131
00:46:37,860 --> 00:46:35,680
teach good science and they deserve all

1132
00:46:50,080 --> 00:46:37,870
the support that we as scientists and

1133
00:46:56,780 --> 00:46:52,640
hi this is brian dunning from the

1134
00:46:59,810 --> 00:46:56,790
sceptile podcast ATS kept ID com for 15

1135
00:47:02,570 --> 00:46:59,820
years now dr. Bob's trivia quiz has been

1136
00:47:05,030 --> 00:47:02,580
a part of Australian skeptics each month

1137
00:47:07,910 --> 00:47:05,040
the mysterious dr. Bob comes up with

1138
00:47:11,090 --> 00:47:07,920

questions that defy all logic and reason

1139

00:47:13,310 --> 00:47:11,100

only the best of the best dare attempt

1140

00:47:16,520 --> 00:47:13,320

to answer these brain twisters and no

1141

00:47:22,090 --> 00:47:16,530

google won't help you visit dr. Bob's

1142

00:47:25,490 --> 00:47:22,100

quiz wordpress.com that's dr be OBS quiz

1143

00:47:28,460 --> 00:47:25,500

wordpress.com to take part and to see

1144

00:47:31,490 --> 00:47:28,470

the complete archive of dr. bob's trivia

1145

00:47:45,430 --> 00:47:31,500

quiz i'm brian dunning from skep tide

1146

00:47:50,180 --> 00:47:47,930

where's the TARDIS we're coming to you

1147

00:47:51,950 --> 00:47:50,190

live from the secret carpeted corridor

1148

00:47:54,290 --> 00:47:51,960

just near skeptics in the pub and we

1149

00:47:55,490 --> 00:47:54,300

with Garrett here ad today Gary how good

1150

00:47:58,130 --> 00:47:55,500

to see along here it's get is the pub

1151
00:48:00,440 --> 00:47:58,140
again yes and I'm excited to be taking

1152
00:48:02,420 --> 00:48:00,450
part in this corridor conversation you

1153
00:48:04,070 --> 00:48:02,430
see them going on you hear them on the

1154
00:48:06,290 --> 00:48:04,080
podcast now you're actually part of it

1155
00:48:08,540 --> 00:48:06,300
well it's like joining a secret Club

1156
00:48:09,530 --> 00:48:08,550
though we got a handshake or something

1157
00:48:11,060 --> 00:48:09,540
like the world there will be a special

1158
00:48:12,530 --> 00:48:11,070
one later I guess you'll feel like your

1159
00:48:14,300 --> 00:48:12,540
life is over once this interview is done

1160
00:48:15,710 --> 00:48:14,310
because it's all been done really well

1161
00:48:17,120 --> 00:48:15,720
that's only if you believe in a single

1162
00:48:18,620 --> 00:48:17,130
life if you believe your past and future

1163
00:48:19,940 --> 00:48:18,630

lives and obviously you've got a much

1164

00:48:21,620 --> 00:48:19,950

broader perspective on this sort of

1165

00:48:23,630 --> 00:48:21,630

thing which has got nothing to do

1166

00:48:24,770 --> 00:48:23,640

whatsoever to do with free cons that it

1167

00:48:28,160 --> 00:48:24,780

could because we're here to talk about

1168

00:48:29,630 --> 00:48:28,170

freecom which is on at the UTS and I've

1169

00:48:31,220 --> 00:48:29,640

been to the skeptic camp there a couple

1170

00:48:32,870 --> 00:48:31,230

of times and there's a much broader

1171

00:48:34,460 --> 00:48:32,880

thing involving a whole lot of other

1172

00:48:36,110 --> 00:48:34,470

things trying to explain it in a capsule

1173

00:48:38,120 --> 00:48:36,120

to the Sydney listen it and get along

1174

00:48:39,470 --> 00:48:38,130

there i'm glad that i mentioned the sort

1175

00:48:41,720 --> 00:48:39,480

of multiple lives because there are

1176

00:48:43,970 --> 00:48:41,730

certainly a lot of life happening at a

1177

00:48:46,670 --> 00:48:43,980

freak on effectively what it is it's a

1178

00:48:49,250 --> 00:48:46,680

gathering of people various tribes of

1179

00:48:51,680 --> 00:48:49,260

science fiction fans and people who like

1180

00:48:54,020 --> 00:48:51,690

science fiction sci fi people who like

1181

00:48:56,480 --> 00:48:54,030

to write it people who like to read it

1182

00:48:58,730 --> 00:48:56,490

and people would just like to watch did

1183

00:49:00,110 --> 00:48:58,740

you find that the the true blood people

1184

00:49:02,780 --> 00:49:00,120

don't really get on with the buffy the

1185

00:49:05,210 --> 00:49:02,790

vampire slayer' people well generally

1186

00:49:08,060 --> 00:49:05,220

it's not an issue because most free cons

1187

00:49:11,150 --> 00:49:08,070

actually take place in daylight on the

1188

00:49:12,710 --> 00:49:11,160

weekend at an inexpensive location that

1189

00:49:14,660 --> 00:49:12,720

you can get to and did i mention that

1190

00:49:15,770 --> 00:49:14,670

it's actually a free event yeah and how

1191

00:49:17,390 --> 00:49:15,780

many people do you expect to get along

1192

00:49:19,940 --> 00:49:17,400

and I believe you've got two rooms going

1193

00:49:24,220 --> 00:49:19,950

we have two rooms going the a room and

1194

00:49:29,210 --> 00:49:24,230

the be room and what I'm presenting is a

1195

00:49:31,580 --> 00:49:29,220

program of about 18 hours of discussions

1196

00:49:34,400 --> 00:49:31,590

of all sorts of science fictional issues

1197

00:49:35,990 --> 00:49:34,410

and what do you think is that the hook

1198

00:49:36,860 --> 00:49:36,000

to get people along that haven't been to

1199

00:49:38,690 --> 00:49:36,870

this kind of thing because they're

1200

00:49:40,880 --> 00:49:38,700

thinking oh they're having trouble

1201
00:49:42,980 --> 00:49:40,890
imagining what it is well the great

1202
00:49:46,490 --> 00:49:42,990
thing about it is if you can imagine a

1203
00:49:48,770 --> 00:49:46,500
university common room conversation it's

1204
00:49:50,810 --> 00:49:48,780
sort of at that level you'll meet people

1205
00:49:52,410 --> 00:49:50,820
there who are into science fiction and

1206
00:49:55,050 --> 00:49:52,420
you'll discover they're also in a lot of

1207
00:49:57,690 --> 00:49:55,060
other things so if you're only are just

1208
00:50:00,630 --> 00:49:57,700
sort of i read it or i watch it but i'm

1209
00:50:02,880 --> 00:50:00,640
not really a sci-fi fan I don't wear the

1210
00:50:04,530 --> 00:50:02,890
costume I don't wear the point it is

1211
00:50:07,020 --> 00:50:04,540
although some people do nothing wrong

1212
00:50:09,180 --> 00:50:07,030
with that you'll probably find their

1213
00:50:13,530 --> 00:50:09,190

people who will be on your wavelength

1214

00:50:16,440 --> 00:50:13,540

more so than the people at work or your

1215

00:50:19,530 --> 00:50:16,450

immediate family who you've just ignored

1216

00:50:21,090 --> 00:50:19,540

it means that either sci-fi not good and

1217

00:50:22,650 --> 00:50:21,100

also you can make it as little or as

1218

00:50:24,390 --> 00:50:22,660

much as you want you can come along and

1219

00:50:27,480 --> 00:50:24,400

just dip your toe in the whole thing or

1220

00:50:29,400 --> 00:50:27,490

whatever and like skeptics like even

1221

00:50:31,530 --> 00:50:29,410

conspiracy theory people to a certain

1222

00:50:34,140 --> 00:50:31,540

extent anomalous science fiction fans

1223

00:50:38,700 --> 00:50:34,150

they don't tend to be as judgmental as

1224

00:50:40,020 --> 00:50:38,710

you would think well that's true one of

1225

00:50:42,110 --> 00:50:40,030

the other things that I've found about

1226

00:50:45,030 --> 00:50:42,120

science fiction fans is that they are

1227

00:50:47,010 --> 00:50:45,040

generally not just well read in science

1228

00:50:49,160 --> 00:50:47,020

fiction but they're usually quite well

1229

00:50:52,110 --> 00:50:49,170

read in a couple of other fields as well

1230

00:50:54,090 --> 00:50:52,120

often they'll use the word catharsis in

1231

00:50:56,640 --> 00:50:54,100

a sentence and know what it means unlike

1232

00:50:59,100 --> 00:50:56,650

me will I meet people that can have a

1233

00:51:01,890 --> 00:50:59,110

Frank and open discussion about the

1234

00:51:03,960 --> 00:51:01,900

morality of Captain Scarlet the mr. ons

1235

00:51:05,940 --> 00:51:03,970

I mean basically we did destroy their

1236

00:51:07,410 --> 00:51:05,950

city on Mars and they're angry with us

1237

00:51:09,690 --> 00:51:07,420

so we don't have the moral high ground

1238

00:51:12,780 --> 00:51:09,700

it is quite possible that you would be

1239

00:51:15,510 --> 00:51:12,790

able to find people like that but I find

1240

00:51:17,820 --> 00:51:15,520

that the real killer app of a freak on

1241

00:51:19,200 --> 00:51:17,830

as being a free entry event is it

1242

00:51:21,780 --> 00:51:19,210

instead of having to decide in advance

1243

00:51:23,370 --> 00:51:21,790

at hey I want to go to this thing it's

1244

00:51:24,870 --> 00:51:23,380

going to cost me so much I'm going to

1245

00:51:26,970 --> 00:51:24,880

have to spend a day there I'm going to

1246

00:51:28,980 --> 00:51:26,980

have to make it more while you can go to

1247

00:51:32,280 --> 00:51:28,990

a freak on and if you like the first

1248

00:51:34,610 --> 00:51:32,290

hour of it great you can stay just for

1249

00:51:37,440 --> 00:51:34,620

that session if you like although

1250

00:51:39,030 --> 00:51:37,450

usually you'll find that it's

1251
00:51:40,860 --> 00:51:39,040
interesting enough to compel you to

1252
00:51:42,750 --> 00:51:40,870
stick around for another session and

1253
00:51:44,640 --> 00:51:42,760
another session and another session well

1254
00:51:46,980 --> 00:51:44,650
where can we go online to find out more

1255
00:51:50,460 --> 00:51:46,990
about it and when is it on you can

1256
00:51:53,180 --> 00:51:50,470
contact me by email and the clever

1257
00:51:57,120 --> 00:51:53,190
little email for that is seeded free

1258
00:52:00,810 --> 00:51:57,130
con-com @ gmail.com I'll just repeat

1259
00:52:02,779 --> 00:52:00,820
that for you again seed sy d freak on

1260
00:52:05,809 --> 00:52:02,789
calm

1261
00:52:07,609 --> 00:52:05,819
gmail com and would there be anyone

1262
00:52:10,219 --> 00:52:07,619
that's a real fan of the work of a

1263
00:52:14,269 --> 00:52:10,229

William Shatner specifically in flying

1264

00:52:16,519 --> 00:52:14,279

high too well remember this is a science

1265

00:52:19,729 --> 00:52:16,529

fiction convention there is a carpentry

1266

00:52:21,890 --> 00:52:19,739

convention later on in town at the

1267

00:52:24,079 --> 00:52:21,900

showground if you're interested in

1268

00:52:26,509 --> 00:52:24,089

wooden acting I think that's a very good

1269

00:52:28,069 --> 00:52:26,519

place for you to hang out look good luck

1270

00:52:30,949 --> 00:52:28,079

with it and we may see you there and of

1271

00:52:52,620 --> 00:52:30,959

course may the force be with you live

1272

00:52:57,730 --> 00:52:55,720

thank you for listening to the skeptic

1273

00:52:59,470 --> 00:52:57,740

zone all those pancakes were good

1274

00:53:02,200 --> 00:52:59,480

haven't had pancakes for a while it's

1275

00:53:03,760 --> 00:53:02,210

hard to beat that maple syrup tell you

1276

00:53:05,770 --> 00:53:03,770

what when I went to a las vegas last

1277

00:53:07,450 --> 00:53:05,780

time for the amazing meeting i ordered a

1278

00:53:10,390 --> 00:53:07,460

big stack of pancakes I think I had

1279

00:53:14,860 --> 00:53:10,400

enough for three people two dogs and six

1280

00:53:16,390 --> 00:53:14,870

cats love pancakes I shall keep you

1281

00:53:20,170 --> 00:53:16,400

updated on my progress about the

1282

00:53:21,580 --> 00:53:20,180

vaccination chronicles documentary I'm

1283

00:53:25,630 --> 00:53:21,590

filming at the moment there is a short

1284

00:53:28,300 --> 00:53:25,640

clip at wwc eggs on TV from stuff I shot

1285

00:53:30,070 --> 00:53:28,310

of a month or two ago shot much more

1286

00:53:32,800 --> 00:53:30,080

since then and gives you an idea what

1287

00:53:35,140 --> 00:53:32,810

I'm trying to achieve thank you if you

1288

00:53:36,940 --> 00:53:35,150

care to chip in and help me with that

1289

00:53:39,880 --> 00:53:36,950

that project I think it's quite

1290

00:53:42,070 --> 00:53:39,890

worthwhile coming up on next week's show

1291

00:53:44,650 --> 00:53:42,080

we're going to hear from Benjamin

1292

00:53:46,980 --> 00:53:44,660

Radford that's well worth waiting for

1293

00:53:50,230 --> 00:53:46,990

Benjamin red but a really top line

1294

00:53:51,850 --> 00:53:50,240

paranormal investigator and just before

1295

00:53:53,290 --> 00:53:51,860

I go and sort of harks back to this

1296

00:53:54,760 --> 00:53:53,300

episode of the skeptic zone talking

1297

00:53:56,680 --> 00:53:54,770

about the evolution and creationism and

1298

00:53:58,750 --> 00:53:56,690

all that sort of stuff now I stumbled

1299

00:54:03,510 --> 00:53:58,760

upon a really good youtube channel

1300

00:54:06,490 --> 00:54:03,520

youtube.com slash evolution documentary

1301
00:54:08,020 --> 00:54:06,500
and something like 200 documentaries on

1302
00:54:12,460 --> 00:54:08,030
there about natural selection and

1303
00:54:15,880 --> 00:54:12,470
evolution and biology and anatomy that

1304
00:54:18,700 --> 00:54:15,890
sort of stuff wow it's it's the smallest

1305
00:54:20,800 --> 00:54:18,710
but it's it's incredible I recommend you

1306
00:54:23,590 --> 00:54:20,810
visit the evolution documentary and

1307
00:54:26,230 --> 00:54:23,600
peruse those documentaries I'm sure that

1308
00:54:28,330 --> 00:54:26,240
will keep you occupied for the week to

1309
00:54:31,090 --> 00:54:28,340
come and until next week's show this is

1310
00:54:34,940 --> 00:54:31,100
Richard Saunders signing off from Sydney

1311
00:54:42,050 --> 00:54:37,040
you've been listening to the skeptic

1312
00:54:45,800 --> 00:54:42,060
zone visit her website at www.skeptics