

**The Skeptic Zone**  
**Show 287 - 20 April 2014**



**Michael Marshall**

1  
00:00:24,070 --> 00:00:09,190  
welcome to the skeptic zone the podcast

2  
00:00:28,790 --> 00:00:26,550  
hello and welcome to the skeptic zone

3  
00:00:32,150 --> 00:00:28,800  
episode number 287

4  
00:00:34,549 --> 00:00:32,160  
for the 20th of april 2014.

5  
00:00:36,150 --> 00:00:34,559  
richard saunders here with you in sydney

6  
00:00:37,030 --> 00:00:36,160  
australia

7  
00:00:39,910 --> 00:00:37,040  
full

8  
00:00:41,750 --> 00:00:39,920  
to the brim of chocolate easter eggs and

9  
00:00:44,630 --> 00:00:41,760  
chocolate bars

10  
00:00:45,830 --> 00:00:44,640  
and chocolate chocolate with some

11  
00:00:47,830 --> 00:00:45,840  
chocolate

12  
00:00:49,110 --> 00:00:47,840  
it's just that time of the year folks

13  
00:00:51,430 --> 00:00:49,120

and when you have

14  
00:00:53,430 --> 00:00:51,440  
nieces and nephews who are mad keen on

15  
00:00:54,549 --> 00:00:53,440  
easter egg hunts

16  
00:00:55,590 --> 00:00:54,559  
well i mean

17  
00:00:56,869 --> 00:00:55,600  
you've got to

18  
00:00:58,869 --> 00:00:56,879  
you know

19  
00:01:00,709 --> 00:00:58,879  
play the part and be a good uncle good

20  
00:01:04,229 --> 00:01:00,719  
aunt good uncle and uh

21  
00:01:05,670 --> 00:01:04,239  
um eat lots of um uh chocolate but

22  
00:01:07,510 --> 00:01:05,680  
putting aside the chocolate for one

23  
00:01:09,429 --> 00:01:07,520  
moment what's coming up on this week's

24  
00:01:11,830 --> 00:01:09,439  
episode of the skeptic zone it's the

25  
00:01:15,270 --> 00:01:11,840  
welcome return of a grain of salt with

26

00:01:18,070 --> 00:01:15,280

iran sagev iran lucky iran was over at

27

00:01:20,630 --> 00:01:18,080

qed question explore discover the

28

00:01:23,510 --> 00:01:20,640

wonderful convention in manchester and

29

00:01:25,429 --> 00:01:23,520

this week to kick off his uh season of

30

00:01:27,670 --> 00:01:25,439

interviews from qed

31

00:01:30,390 --> 00:01:27,680

iran chats to michael marshall from the

32

00:01:33,670 --> 00:01:30,400

merseyside skeptics and the relatively

33

00:01:35,590 --> 00:01:33,680

new good thinking website i quite like

34

00:01:38,310 --> 00:01:35,600

this interview it's sort of like a

35

00:01:41,109 --> 00:01:38,320

more like a fireside chat with michael

36

00:01:43,510 --> 00:01:41,119

marshall getting his insights into qed

37

00:01:45,190 --> 00:01:43,520

and other and other adventures

38

00:01:46,870 --> 00:01:45,200

after that it's a week in science from

39

00:01:50,149 --> 00:01:46,880

our friends at the royal institution of

40

00:01:51,429 --> 00:01:50,159

australia [www.riaus.org](http://www.riaus.org)

41

00:01:54,149 --> 00:01:51,439

a u

42

00:01:56,230 --> 00:01:54,159

the place i keep threatening to visit to

43

00:01:58,469 --> 00:01:56,240

visit my friend dr paul willis who will

44

00:02:00,310 --> 00:01:58,479

no doubt show me his extensive

45

00:02:02,630 --> 00:02:00,320

collection of chocolate

46

00:02:05,670 --> 00:02:02,640

and then following that it's evidence

47

00:02:07,429 --> 00:02:05,680

please a new segment with joe alabaster

48

00:02:09,830 --> 00:02:07,439

joe you remember from last week's show

49

00:02:12,309 --> 00:02:09,840

reading about her success and getting

50

00:02:14,309 --> 00:02:12,319

some homeopathy news taken off the

51  
00:02:16,390 --> 00:02:14,319  
internet this week joe reads the

52  
00:02:18,390 --> 00:02:16,400  
newspaper report on the dangers of

53  
00:02:20,710 --> 00:02:18,400  
whooping cough and to round off the show

54  
00:02:21,589 --> 00:02:20,720  
it's an update from our friend dr besh

55  
00:02:23,750 --> 00:02:21,599  
saab

56  
00:02:26,550 --> 00:02:23,760  
who's in olimoths in the czech republic

57  
00:02:29,750 --> 00:02:26,560  
right now attending the uh film festival

58  
00:02:32,790 --> 00:02:29,760  
lucky besh lucky guy he's going to tell

59  
00:02:35,589 --> 00:02:32,800  
us what it was really like to be in that

60  
00:02:37,830 --> 00:02:35,599  
mars simulation mission that would have

61  
00:02:39,990 --> 00:02:37,840  
been interesting for sure and some more

62  
00:02:42,309 --> 00:02:40,000  
information about the festival in the

63  
00:02:43,589 --> 00:02:42,319

czech republic before we get stuck into

64

00:02:45,270 --> 00:02:43,599

this show i've been asked to tell you

65

00:02:47,350 --> 00:02:45,280

about a petition

66

00:02:48,390 --> 00:02:47,360

a petition at the moment take action to

67

00:02:51,190 --> 00:02:48,400

improve

68

00:02:53,190 --> 00:02:51,200

vaccination rates across queensland

69

00:02:55,589 --> 00:02:53,200

i have a link

70

00:03:00,150 --> 00:02:55,599

to this petition which is at [change.org](https://change.org)

71

00:03:04,470 --> 00:03:02,869

and some news for sydney cider sydney

72

00:03:06,309 --> 00:03:04,480

skeptics please come to the next

73

00:03:08,869 --> 00:03:06,319

australian skeptics dinner meeting which

74

00:03:11,110 --> 00:03:08,879

will be on the 24th of may saturday the

75

00:03:12,630 --> 00:03:11,120

24th of may at the ride eastwood's

76

00:03:16,470 --> 00:03:12,640

leagues club and you can find

77

00:03:21,030 --> 00:03:18,949

dot a u oh

78

00:03:25,670 --> 00:03:21,040

this talk coming up

79

00:03:27,830 --> 00:03:25,680

medical entomologist from the university

80

00:03:30,149 --> 00:03:27,840

of sydney and westmead hospital will

81

00:03:32,550 --> 00:03:30,159

give a fun fascinating and

82

00:03:34,789 --> 00:03:32,560

itch inducing presentation on everything

83

00:03:36,869 --> 00:03:34,799

you ever wanted to know and quite a lot

84

00:03:39,910 --> 00:03:36,879

you didn't want to know about insects

85

00:03:41,750 --> 00:03:39,920

that want to drink your blood

86

00:03:43,430 --> 00:03:41,760

yes folks we certainly deliver

87

00:03:45,589 --> 00:03:43,440

interesting talks at the australian

88

00:03:47,110 --> 00:03:45,599

skeptics dinner meeting learn about

89

00:03:48,710 --> 00:03:47,120

killer mozzies

90

00:03:50,630 --> 00:03:48,720

killing mozzies learn about blood

91

00:03:51,910 --> 00:03:50,640

sucking bats that want to drink your

92

00:03:55,110 --> 00:03:51,920

tears

93

00:03:57,030 --> 00:03:55,120

after dinner i hope

94

00:04:00,550 --> 00:03:57,040

and discuss whether we really need to

95

00:04:03,350 --> 00:04:00,560

get rid of all our kangaroos and birds

96

00:04:06,149 --> 00:04:03,360

dr mozzie will be the one to answer all

97

00:04:08,470 --> 00:04:06,159

your questions now dr cameron webb was a

98

00:04:10,630 --> 00:04:08,480

guest recently at skeptics in the pub in

99

00:04:11,750 --> 00:04:10,640

sydney and gave a fascinating talk about

100

00:04:13,990 --> 00:04:11,760

um

101  
00:04:15,910 --> 00:04:14,000  
nasty insects and

102  
00:04:17,990 --> 00:04:15,920  
mosquito type things so i'm really

103  
00:04:20,789 --> 00:04:18,000  
looking forward to this dinner if you

104  
00:04:22,710 --> 00:04:20,799  
want to come along it's uh saturday

105  
00:04:26,390 --> 00:04:22,720  
may 24th

106  
00:04:31,670 --> 00:04:30,070  
but for now while i run downstairs

107  
00:04:34,550 --> 00:04:31,680  
open up the fridge

108  
00:04:35,670 --> 00:04:34,560  
and heaven knows i might even find some

109  
00:04:38,469 --> 00:04:35,680  
chocolate

110  
00:05:05,830 --> 00:04:38,479  
while i'm doing that i hope you enjoy

111  
00:05:09,110 --> 00:05:07,590  
so i'm here with marsh michael marshall

112  
00:05:11,670 --> 00:05:09,120  
who's

113  
00:05:13,189 --> 00:05:11,680

one of the organizers of uh qed head

114

00:05:14,790 --> 00:05:13,199

organizer not head organization no no

115

00:05:15,990 --> 00:05:14,800

hey there's no head organ no no no no no

116

00:05:18,550 --> 00:05:16,000

you're all headed off you're always

117

00:05:20,550 --> 00:05:18,560

wrong we are all equal we are all equals

118

00:05:23,350 --> 00:05:20,560

in the qed world especially now mike

119

00:05:24,790 --> 00:05:23,360

hall is isn't usually involved this year

120

00:05:26,390 --> 00:05:24,800

i think michael was probably our head

121

00:05:28,550 --> 00:05:26,400

organizer in the past because uh

122

00:05:31,189 --> 00:05:28,560

whatever michael does uh he tends to be

123

00:05:33,430 --> 00:05:31,199

the head at it because he is the brain

124

00:05:34,790 --> 00:05:33,440

you know that that man has a brain and

125

00:05:37,110 --> 00:05:34,800

everything goes through his brain and

126

00:05:38,629 --> 00:05:37,120

he's an absolute genius and he he sees

127

00:05:40,550 --> 00:05:38,639

details that everybody else misses but

128

00:05:43,029 --> 00:05:40,560

uh he wasn't involved in qe this year so

129

00:05:44,390 --> 00:05:43,039

basically so

130

00:05:46,070 --> 00:05:44,400

one of the things that we discussed just

131

00:05:47,670 --> 00:05:46,080

before we started recording was about

132

00:05:49,270 --> 00:05:47,680

the the half with the communication

133

00:05:50,710 --> 00:05:49,280

skills so he's not responsible for that

134

00:05:52,950 --> 00:05:50,720

he's oh god no mike's got no

135

00:05:55,029 --> 00:05:52,960

communication skills christ no no he's a

136

00:05:56,870 --> 00:05:55,039

software developer you know mike is the

137

00:05:59,189 --> 00:05:56,880

kind of guy who will sit in the corner

138

00:06:00,950 --> 00:05:59,199

of a room for the first four or five

139

00:06:02,390 --> 00:06:00,960

times that you meet him and then the

140

00:06:04,390 --> 00:06:02,400

sixth time he'll randomly talk to you

141

00:06:05,990 --> 00:06:04,400

like he's known you for 30 years that's

142

00:06:07,590 --> 00:06:06,000

what mike mike is like which is great

143

00:06:09,110 --> 00:06:07,600

because he and the funny thing about

144

00:06:10,870 --> 00:06:09,120

mike and i mean maybe i know listeners

145

00:06:12,150 --> 00:06:10,880

that sure may have heard uh

146

00:06:13,990 --> 00:06:12,160

i was sure skeptics were the k in the

147

00:06:16,150 --> 00:06:14,000

past we've certainly i know which has

148

00:06:17,909 --> 00:06:16,160

been running uh ads for our show for uh

149

00:06:19,189 --> 00:06:17,919

a very very long time which is uh which

150

00:06:21,670 --> 00:06:19,199

is great and sometimes we even give a

151  
00:06:23,909 --> 00:06:21,680  
new ad every every three or four years

152  
00:06:25,670 --> 00:06:23,919  
we like to throw over a new ad just to

153  
00:06:28,390 --> 00:06:25,680  
freshen things up a little bit but um

154  
00:06:29,350 --> 00:06:28,400  
the weird thing with mike is that uh i i

155  
00:06:31,590 --> 00:06:29,360  
knew him

156  
00:06:32,950 --> 00:06:31,600  
i didn't know him at all when we started

157  
00:06:34,150 --> 00:06:32,960  
the motorcycle skeptic society but it

158  
00:06:35,590 --> 00:06:34,160  
was myself it was him and there was

159  
00:06:38,309 --> 00:06:35,600  
colin so the three guys who are on the

160  
00:06:40,309 --> 00:06:38,319  
the skeptics uh with the casual um and

161  
00:06:42,550 --> 00:06:40,319  
i'd never met mike before in my life and

162  
00:06:45,110 --> 00:06:42,560  
we had a skeptics in the pub we just had

163  
00:06:47,270 --> 00:06:45,120

the first ever meet up and uh weirdly

164

00:06:48,870 --> 00:06:47,280

and i have no idea why but from day one

165

00:06:51,270 --> 00:06:48,880

we had the kind of rapport that we have

166

00:06:53,749 --> 00:06:51,280

even now we had this weird instant kind

167

00:06:55,670 --> 00:06:53,759

of rapport where we kind of knew that we

168

00:06:57,029 --> 00:06:55,680

could ridicule each other and it'd be

169

00:06:58,629 --> 00:06:57,039

all right and we knew where each other's

170

00:07:00,150 --> 00:06:58,639

limits were very quickly and i i quite

171

00:07:02,309 --> 00:07:00,160

like ridiculing people around i mean you

172

00:07:03,830 --> 00:07:02,319

spent the weekend with me uh i'd like to

173

00:07:06,070 --> 00:07:03,840

think that you've uh you've enjoyed

174

00:07:09,909 --> 00:07:06,080

being on the the edge of my broad sword

175

00:07:13,430 --> 00:07:12,070

so yeah well it's also the the kind of

176

00:07:15,350 --> 00:07:13,440

um

177

00:07:17,510 --> 00:07:15,360

connection that you can us you can

178

00:07:19,830 --> 00:07:17,520

maintain without without necessarily

179

00:07:21,909 --> 00:07:19,840

having eye contact which is a very

180

00:07:23,510 --> 00:07:21,919

there's a joke that mike mike tells that

181

00:07:25,270 --> 00:07:23,520

uh you can tell uh an extrovert

182

00:07:27,589 --> 00:07:25,280

developer because he looks at your shoes

183

00:07:29,670 --> 00:07:27,599

while he's talking

184

00:07:32,309 --> 00:07:29,680

which i think which kind of sums it up

185

00:07:34,710 --> 00:07:32,319

but uh no i mean i i i think mike is um

186

00:07:36,309 --> 00:07:34,720

one of the uh great unsung skeptics in

187

00:07:38,309 --> 00:07:36,319

the uk which is weird because he's

188

00:07:40,230 --> 00:07:38,319

involved in so many big skeptical

189

00:07:42,150 --> 00:07:40,240

projects but uh he doesn't like any

190

00:07:43,510 --> 00:07:42,160

eclipse and like any accord whereas i

191

00:07:44,469 --> 00:07:43,520

don't mind a claimant chord but i only

192

00:07:46,309 --> 00:07:44,479

like a claim of the chord that i've

193

00:07:47,670 --> 00:07:46,319

worked for uh and i remember i was

194

00:07:50,150 --> 00:07:47,680

actually speaking to someone i forget uh

195

00:07:51,909 --> 00:07:50,160

when uh and somebody asked me uh what is

196

00:07:53,510 --> 00:07:51,919

the best way to be quite well known in

197

00:07:55,270 --> 00:07:53,520

skepticism i said well

198

00:07:57,749 --> 00:07:55,280

the easiest way if you want the easiest

199

00:07:59,749 --> 00:07:57,759

way is to work incredibly hard for a

200

00:08:01,430 --> 00:07:59,759

number of years work your absolute socks

201  
00:08:02,469 --> 00:08:01,440  
off and try and do everything absolutely

202  
00:08:03,270 --> 00:08:02,479  
perfectly

203  
00:08:05,029 --> 00:08:03,280  
um

204  
00:08:07,189 --> 00:08:05,039  
it sounds like more work in the long run

205  
00:08:08,629 --> 00:08:07,199  
but when you get there you're on safer

206  
00:08:10,390 --> 00:08:08,639  
ground than if you've just written a few

207  
00:08:11,589 --> 00:08:10,400  
blogs slagging a few people off and and

208  
00:08:14,070 --> 00:08:11,599  
suddenly found yourself at the top on

209  
00:08:15,830 --> 00:08:14,080  
very shaky ground just just work hard

210  
00:08:17,189 --> 00:08:15,840  
try and do things the right way uh so

211  
00:08:18,230 --> 00:08:17,199  
yeah i think that's that's the best way

212  
00:08:21,029 --> 00:08:18,240  
to go about it

213  
00:08:22,710 --> 00:08:21,039

so you clearly work very hard you're you

214

00:08:24,309 --> 00:08:22,720

have a number of projects that i know

215

00:08:25,430 --> 00:08:24,319

about probably probably a few that i

216

00:08:27,189 --> 00:08:25,440

don't know

217

00:08:29,110 --> 00:08:27,199

so so you're on skeptics with the k

218

00:08:30,869 --> 00:08:29,120

obviously we're organizing qed now but

219

00:08:32,469 --> 00:08:30,879

you also have a new job

220

00:08:33,829 --> 00:08:32,479

yeah i'm incredibly excited about the

221

00:08:35,190 --> 00:08:33,839

new job um

222

00:08:35,829 --> 00:08:35,200

it's a remarkable opportunity it's one

223

00:08:37,990 --> 00:08:35,839

of those things that you've got to kind

224

00:08:39,750 --> 00:08:38,000

of pinch yourself about so um there's a

225

00:08:41,430 --> 00:08:39,760

skeptical charity here in the uk called

226

00:08:43,589 --> 00:08:41,440

the good thinking society which was set

227

00:08:45,590 --> 00:08:43,599

up by simon singh who's a fantastic

228

00:08:46,790 --> 00:08:45,600

force for phenomenal and phenomenal good

229

00:08:48,230 --> 00:08:46,800

and he has been for a huge number of

230

00:08:49,829 --> 00:08:48,240

years and he's very well known to your

231

00:08:51,430 --> 00:08:49,839

listeners i'm absolutely sure because

232

00:08:54,070 --> 00:08:51,440

he's known to everybody in skepticism

233

00:08:56,630 --> 00:08:54,080

he's a great great uh a great advocate

234

00:08:58,790 --> 00:08:56,640

for reason um so we set the the charity

235

00:09:00,470 --> 00:08:58,800

up to say what would a skeptical charity

236

00:09:03,030 --> 00:09:00,480

in the uk look like it's very small it's

237

00:09:04,710 --> 00:09:03,040

very slimline and kind of agile um and

238

00:09:06,070 --> 00:09:04,720

we're just gonna try and find out what

239

00:09:07,750 --> 00:09:06,080

could be done

240

00:09:10,070 --> 00:09:07,760

so i joined the charity as the the

241

00:09:12,150 --> 00:09:10,080

full-time project director um about

242

00:09:13,670 --> 00:09:12,160

three weeks a month ago now um and we're

243

00:09:15,829 --> 00:09:13,680

now starting to see

244

00:09:17,910 --> 00:09:15,839

what it what it is that that role even

245

00:09:19,110 --> 00:09:17,920

means and what we can do and what kind

246

00:09:20,470 --> 00:09:19,120

of opportunities are out there and we're

247

00:09:22,550 --> 00:09:20,480

looking at many different things in

248

00:09:24,310 --> 00:09:22,560

terms of alternative medicine we're very

249

00:09:25,670 --> 00:09:24,320

keen on tackling psychics that's a big

250

00:09:28,630 --> 00:09:25,680

bug bear of mine and something i've been

251

00:09:30,470 --> 00:09:28,640

fighting for five or six years now

252

00:09:31,829 --> 00:09:30,480

um but already we've started to produce

253

00:09:32,710 --> 00:09:31,839

a few things that we're quite happy with

254

00:09:34,230 --> 00:09:32,720

so

255

00:09:36,389 --> 00:09:34,240

i'm sure your listeners be aware that it

256

00:09:38,150 --> 00:09:36,399

was uh recently even as we speak right

257

00:09:40,230 --> 00:09:38,160

now it's a world homeopathy awareness

258

00:09:41,670 --> 00:09:40,240

week yes um and it kind of occurred to

259

00:09:43,509 --> 00:09:41,680

me it occurred to me a little while ago

260

00:09:45,509 --> 00:09:43,519

even when i was doing the 1023 campaign

261

00:09:46,790 --> 00:09:45,519

so a couple of years ago the 1023

262

00:09:48,389 --> 00:09:46,800

campaign was all about raising awareness

263

00:09:49,990 --> 00:09:48,399

of homeopathy and then you get world

264

00:09:51,350 --> 00:09:50,000

homeopathy awareness week and you think

265

00:09:53,750 --> 00:09:51,360

well homeopathy awareness is what we're

266

00:09:56,389 --> 00:09:53,760

about homeopathing about that they're

267

00:09:57,750 --> 00:09:56,399

about homeopathy familiarity you know

268

00:09:59,430 --> 00:09:57,760

you want people to have a fuzzy level of

269

00:10:00,870 --> 00:09:59,440

familiarity oh it's it's that thing

270

00:10:01,829 --> 00:10:00,880

isn't it that's kind of all gentle and

271

00:10:02,710 --> 00:10:01,839

stuff yeah yeah

272

00:10:04,550 --> 00:10:02,720

yeah

273

00:10:06,710 --> 00:10:04,560

lovely and natural and gentle we'll do

274

00:10:08,949 --> 00:10:06,720

that but we're about awareness to say

275

00:10:10,470 --> 00:10:08,959

you know that it's it's it's diluted to

276

00:10:12,310 --> 00:10:10,480

a point where there's nothing in it and

277

00:10:14,310 --> 00:10:12,320

if you replace real medicine for it

278

00:10:16,230 --> 00:10:14,320

people die and it's a huge amount of

279

00:10:18,550 --> 00:10:16,240

money and people say that um

280

00:10:19,829 --> 00:10:18,560

supporters of homeopathy say that uh the

281

00:10:21,269 --> 00:10:19,839

pharmaceutical companies suppress

282

00:10:22,790 --> 00:10:21,279

homeopathy because they can't afford to

283

00:10:24,710 --> 00:10:22,800

sell it themselves and then you look at

284

00:10:26,230 --> 00:10:24,720

the amount of money that waleeda and

285

00:10:28,389 --> 00:10:26,240

boron and nelson's make out of

286

00:10:30,230 --> 00:10:28,399

homeopathy and it's a huge huge sum and

287

00:10:32,470 --> 00:10:30,240

we're talking tens hundreds of merc

288

00:10:34,150 --> 00:10:32,480

exactly yeah mercury on it's it's it's

289

00:10:35,750 --> 00:10:34,160

ludicrous to suggest that you can't sell

290

00:10:37,750 --> 00:10:35,760

it in fact i was i was recent at the

291

00:10:40,069 --> 00:10:37,760

mind body wallet festival as you know

292

00:10:41,590 --> 00:10:40,079

you as you like to call it and i had uh

293

00:10:42,949 --> 00:10:41,600

uh one of these practitioners in front

294

00:10:45,590 --> 00:10:42,959

of me he was saying oh well you know

295

00:10:47,190 --> 00:10:45,600

this this one chap he um he had a very

296

00:10:49,590 --> 00:10:47,200

serious lung disease and he wasn't doing

297

00:10:51,269 --> 00:10:49,600

very well um and then we came along and

298

00:10:53,030 --> 00:10:51,279

we gave him our kind of stuff and he was

299

00:10:55,829 --> 00:10:53,040

completely cured and i was saying wow

300

00:10:57,030 --> 00:10:55,839

that's that's amazing but it's amazing

301  
00:10:59,190 --> 00:10:57,040  
that more people don't know about this

302  
00:11:00,389 --> 00:10:59,200  
why isn't this more widely known he said

303  
00:11:01,590 --> 00:11:00,399  
well

304  
00:11:03,110 --> 00:11:01,600  
the pharmaceutical companies they

305  
00:11:04,630 --> 00:11:03,120  
suppress it because they can't sell this

306  
00:11:06,550 --> 00:11:04,640  
they can't profit from this i said oh

307  
00:11:07,990 --> 00:11:06,560  
that's that's fascinating so how much

308  
00:11:10,870 --> 00:11:08,000  
does it cost for one of your treatments

309  
00:11:12,310 --> 00:11:10,880  
45 pounds so okay so you can sell it

310  
00:11:15,350 --> 00:11:12,320  
you've got no problem selling it that's

311  
00:11:17,030 --> 00:11:15,360  
easy enough for you uh yeah so so we

312  
00:11:19,430 --> 00:11:17,040  
when we talk about homeopathy awareness

313  
00:11:20,710 --> 00:11:19,440

i think uh it's very clear that when as

314

00:11:22,389 --> 00:11:20,720

skeptics what we're trying to do is

315

00:11:24,389 --> 00:11:22,399

raise awareness so we launched a website

316

00:11:26,590 --> 00:11:24,399

homie up the awarenessweek.org uh

317

00:11:27,990 --> 00:11:26,600

because we found that i i noticed that

318

00:11:30,470 --> 00:11:28,000

homeopathyawarenessweek.com went to

319

00:11:32,630 --> 00:11:30,480

where nelson's the uh the uk distributor

320

00:11:34,630 --> 00:11:32,640

who supplied boots to many people

321

00:11:35,590 --> 00:11:34,640

and uh homeopathy awareness week.cod at

322

00:11:37,430 --> 00:11:35,600

uk

323

00:11:38,630 --> 00:11:37,440

also went to nelson so they really

324

00:11:39,509 --> 00:11:38,640

thought they were going to cash in a

325

00:11:40,949 --> 00:11:39,519

little bit from this they thought they

326

00:11:42,030 --> 00:11:40,959

were going to sell some stuff and i

327

00:11:44,870 --> 00:11:42,040

noticed that homeopathy

328

00:11:46,949 --> 00:11:44,880

awarenessweek.org was free so i bought

329

00:11:48,550 --> 00:11:46,959

it i thought you want awareness we'll

330

00:11:50,949 --> 00:11:48,560

give you some awareness

331

00:11:52,069 --> 00:11:50,959

let's make people really aware so uh and

332

00:11:53,750 --> 00:11:52,079

it's been going really well i mean on

333

00:11:56,310 --> 00:11:53,760

the first day that we launched we got 40

334

00:11:58,710 --> 00:11:56,320

000 hits something like that and then uh

335

00:12:00,310 --> 00:11:58,720

the next day uh i had an article in the

336

00:12:01,990 --> 00:12:00,320

guardian and the guardian title for the

337

00:12:03,910 --> 00:12:02,000

for my article was wonderful

338

00:12:05,990 --> 00:12:03,920

as you might have written it yeah you

339

00:12:07,110 --> 00:12:06,000

don't write the title but the editor

340

00:12:08,629 --> 00:12:07,120

really got the feel for what i was

341

00:12:09,829 --> 00:12:08,639

trying to do because he put the title i

342

00:12:12,230 --> 00:12:09,839

forget exactly but it was along the

343

00:12:13,829 --> 00:12:12,240

lines of uh why hold me up or why better

344

00:12:15,509 --> 00:12:13,839

awareness of homeopathy will lead to a

345

00:12:17,190 --> 00:12:15,519

healthier and happier life

346

00:12:19,269 --> 00:12:17,200

and the number of people in the comments

347

00:12:20,790 --> 00:12:19,279

who came saying i came here ready to

348

00:12:21,829 --> 00:12:20,800

slag you off but it kind of makes sense

349

00:12:23,110 --> 00:12:21,839

actually because i read that i was

350

00:12:24,949 --> 00:12:23,120

saying well if we're going to make

351  
00:12:27,030 --> 00:12:24,959  
people aware of homeopathy you should be

352  
00:12:29,990 --> 00:12:27,040  
aware that hormone pass will cure will

353  
00:12:31,829 --> 00:12:30,000  
will claim to treat aids and malaria and

354  
00:12:33,910 --> 00:12:31,839  
all these horrible things in

355  
00:12:35,430 --> 00:12:33,920  
very bad places and uh i also wrote in

356  
00:12:36,949 --> 00:12:35,440  
the article that you have homopaths

357  
00:12:39,110 --> 00:12:36,959  
without borders who i said you know they

358  
00:12:40,470 --> 00:12:39,120  
go into these uh these places with sugar

359  
00:12:41,590 --> 00:12:40,480  
pills you know they've got suitcases

360  
00:12:43,910 --> 00:12:41,600  
filled with sugar pills so they're not

361  
00:12:45,430 --> 00:12:43,920  
so much meds on some frontier as med

362  
00:12:46,949 --> 00:12:45,440  
samsung medicine

363  
00:12:49,350 --> 00:12:46,959

which i was very very happy with

364

00:12:50,949 --> 00:12:49,360

somebody seen exactly

365

00:12:52,470 --> 00:12:50,959

and then so that was on uh that was on

366

00:12:54,310 --> 00:12:52,480

friday and then a saturday we had that

367

00:12:56,069 --> 00:12:54,320

was on buying boeing and i think by

368

00:12:57,990 --> 00:12:56,079

today as we recorded this sunday i think

369

00:12:59,190 --> 00:12:58,000

we had to kind of renew a lease without

370

00:13:01,269 --> 00:12:59,200

hosting because we've managed to

371

00:13:02,949 --> 00:13:01,279

collapse the server so

372

00:13:04,310 --> 00:13:02,959

the hosting were very very kind to

373

00:13:06,230 --> 00:13:04,320

extend the server which means that we

374

00:13:07,670 --> 00:13:06,240

must have been kind of caning it in

375

00:13:10,150 --> 00:13:07,680

terms of hits because everyone's sort of

376

00:13:11,829 --> 00:13:10,160

gone actually yeah homeopathy awareness

377

00:13:14,069 --> 00:13:11,839

is exactly what skepticism should be

378

00:13:15,670 --> 00:13:14,079

doing um so i quite like the idea that

379

00:13:17,350 --> 00:13:15,680

when the next homeopathy awareness week

380

00:13:18,550 --> 00:13:17,360

comes around and you have the homeopathy

381

00:13:20,230 --> 00:13:18,560

awareness week

382

00:13:22,949 --> 00:13:20,240

organizers and they're just about to

383

00:13:24,550 --> 00:13:22,959

press hit on that press release they're

384

00:13:26,230 --> 00:13:24,560

just about press send and they kind of

385

00:13:28,310 --> 00:13:26,240

think

386

00:13:29,829 --> 00:13:28,320

maybe not because last time it kind of

387

00:13:30,949 --> 00:13:29,839

backfired on us i don't want to give

388

00:13:32,949 --> 00:13:30,959

them that little

389

00:13:33,990 --> 00:13:32,959

air of of doubt which is something

390

00:13:36,389 --> 00:13:34,000

similar to what happened with

391

00:13:38,710 --> 00:13:36,399

chiropractic i mean that they

392

00:13:40,629 --> 00:13:38,720

they went out you know all guns blazing

393

00:13:42,710 --> 00:13:40,639

and and ended up

394

00:13:44,870 --> 00:13:42,720

in deep [h\_\_h] basically yeah it's a

395

00:13:47,110 --> 00:13:44,880

public pr perspective well i mean these

396

00:13:49,190 --> 00:13:47,120

kind of um these kind of treatments um

397

00:13:50,790 --> 00:13:49,200

when they talk about be awareness weeks

398

00:13:52,310 --> 00:13:50,800

and when they talk about these these pro

399

00:13:53,750 --> 00:13:52,320

their promotional weeks and it's

400

00:13:55,509 --> 00:13:53,760

ludicrous in a way because when they

401  
00:13:57,670 --> 00:13:55,519  
when it comes to homeopathy awareness

402  
00:13:59,110 --> 00:13:57,680  
week that the reason it's homeopathy

403  
00:14:01,269 --> 00:13:59,120  
awareness week is because some homies

404  
00:14:03,030 --> 00:14:01,279  
thought homeopaths thought

405  
00:14:04,710 --> 00:14:03,040  
yeah we'll have this week

406  
00:14:06,150 --> 00:14:04,720  
let's sell more products this week let's

407  
00:14:07,990 --> 00:14:06,160  
tell people this is our week nobody

408  
00:14:10,790 --> 00:14:08,000  
decrees these days or these weeks i mean

409  
00:14:12,230 --> 00:14:10,800  
uh one of my uh big skeptical projects

410  
00:14:14,310 --> 00:14:12,240  
over the last kind of five or six years

411  
00:14:16,069 --> 00:14:14,320  
has been looking at pr in the media and

412  
00:14:17,990 --> 00:14:16,079  
one of the topics i've not really really

413  
00:14:19,829 --> 00:14:18,000

gone into but i've peripherally

414

00:14:21,990 --> 00:14:19,839

researched and i've considered making

415

00:14:23,990 --> 00:14:22,000

part of my normal research is these

416

00:14:25,829 --> 00:14:24,000

awareness days or these specific weeks

417

00:14:27,750 --> 00:14:25,839

or this and if you actually look you can

418

00:14:30,310 --> 00:14:27,760

pick any data in the calendar and find

419

00:14:32,150 --> 00:14:30,320

there are three four five different days

420

00:14:34,150 --> 00:14:32,160

and then that that day makes up part of

421

00:14:35,829 --> 00:14:34,160

two three four different weeks and it's

422

00:14:37,829 --> 00:14:35,839

a part of a different month and they're

423

00:14:39,670 --> 00:14:37,839

all just decided on by the pr companies

424

00:14:42,069 --> 00:14:39,680

or by the people who are so why because

425

00:14:43,670 --> 00:14:42,079

we decide absolutely and uh yeah maybe

426

00:14:44,870 --> 00:14:43,680

that's something that we should do in

427

00:14:46,230 --> 00:14:44,880

the future and maybe that's something

428

00:14:48,230 --> 00:14:46,240

you should be chatting to me about in a

429

00:14:50,550 --> 00:14:48,240

couple of months yeah but uh we haven't

430

00:14:51,910 --> 00:14:50,560

said about it

431

00:14:53,350 --> 00:14:51,920

so yeah that's something that we'll come

432

00:14:55,430 --> 00:14:53,360

back to but um

433

00:14:57,350 --> 00:14:55,440

just decided that homeopathy awareness

434

00:14:59,189 --> 00:14:57,360

week this is our week to try and sell

435

00:15:00,710 --> 00:14:59,199

more products but um

436

00:15:02,550 --> 00:15:00,720

i'd like to think that every time

437

00:15:04,550 --> 00:15:02,560

there's a homeopathy awareness week

438

00:15:06,790 --> 00:15:04,560

skeptics will be making people more

439

00:15:08,150 --> 00:15:06,800

aware of homeopathy than homeopaths ever

440

00:15:10,150 --> 00:15:08,160

will be because they will never make you

441

00:15:11,990 --> 00:15:10,160

aware of what homeopathy actually is or

442

00:15:13,509 --> 00:15:12,000

what it does or how it doesn't work or

443

00:15:15,189 --> 00:15:13,519

what any of the evidence is they'll just

444

00:15:16,470 --> 00:15:15,199

be telling you hey buy these pills

445

00:15:17,910 --> 00:15:16,480

they're kind of nice and they're gentle

446

00:15:19,990 --> 00:15:17,920

and they're kind of sweet but they won't

447

00:15:21,910 --> 00:15:20,000

actually give you any real information

448

00:15:23,670 --> 00:15:21,920

again you know i know what it's like at

449

00:15:25,590 --> 00:15:23,680

the end of the conference like this you

450

00:15:26,790 --> 00:15:25,600

know the how the

451  
00:15:30,710 --> 00:15:26,800  
you know you just

452  
00:15:32,470 --> 00:15:30,720  
relax yeah you relax for the first time

453  
00:15:34,230 --> 00:15:32,480  
yeah i call it the knee buckle thing you

454  
00:15:35,670 --> 00:15:34,240  
know like the knees just buckle you know

455  
00:15:37,670 --> 00:15:35,680  
they don't need to support you anymore

456  
00:15:39,670 --> 00:15:37,680  
you can you can let loose a little bit

457  
00:15:41,110 --> 00:15:39,680  
um but first of all i i really have to

458  
00:15:43,590 --> 00:15:41,120  
say it um

459  
00:15:45,829 --> 00:15:43,600  
that uh this is um

460  
00:15:48,150 --> 00:15:45,839  
an amazing conference it really is it's

461  
00:15:48,870 --> 00:15:48,160  
just um

462  
00:15:53,189 --> 00:15:48,880  
it's

463  
00:15:55,269 --> 00:15:53,199

that everything really just just worked

464

00:15:57,670 --> 00:15:55,279

really well um

465

00:15:59,269 --> 00:15:57,680

but it's the most important thing is i

466

00:16:00,470 --> 00:15:59,279

might i come to these conferences not

467

00:16:03,189 --> 00:16:00,480

for the speakers

468

00:16:05,509 --> 00:16:03,199

i come for com completely for the social

469

00:16:06,870 --> 00:16:05,519

aspects to to meet people to talk to

470

00:16:08,870 --> 00:16:06,880

people and know we've discussed this

471

00:16:10,710 --> 00:16:08,880

that one of your goals in this

472

00:16:12,389 --> 00:16:10,720

conference in in a conference like this

473

00:16:14,150 --> 00:16:12,399

is exactly right so that people get

474

00:16:15,749 --> 00:16:14,160

together and start talking about yeah

475

00:16:17,749 --> 00:16:15,759

the kind of things that can do that they

476

00:16:19,749 --> 00:16:17,759

can do you can learn from other people

477

00:16:21,590 --> 00:16:19,759

i mentioned to mike earlier about how

478

00:16:23,110 --> 00:16:21,600

tam actually did a little bit of a

479

00:16:24,230 --> 00:16:23,120

survey and they found out immediately

480

00:16:25,829 --> 00:16:24,240

after time

481

00:16:27,189 --> 00:16:25,839

several new groups every year there's

482

00:16:28,790 --> 00:16:27,199

several new groups that start

483

00:16:29,829 --> 00:16:28,800

immediately after ten because people get

484

00:16:32,150 --> 00:16:29,839

together and they learn from other

485

00:16:34,389 --> 00:16:32,160

people so so there's a huge the social

486

00:16:35,509 --> 00:16:34,399

side is just so incredibly important and

487

00:16:36,710 --> 00:16:35,519

i think there's something that you've

488

00:16:37,990 --> 00:16:36,720

done here and i'm not sure exactly

489

00:16:40,230 --> 00:16:38,000

whether i can

490

00:16:41,189 --> 00:16:40,240

pin it down but i'd be interested to try

491

00:16:43,430 --> 00:16:41,199

to

492

00:16:45,829 --> 00:16:43,440

that you've created a really

493

00:16:46,790 --> 00:16:45,839

nice positive atmosphere

494

00:16:49,110 --> 00:16:46,800

and

495

00:16:51,509 --> 00:16:49,120

you've given enough time for people to

496

00:16:53,110 --> 00:16:51,519

socialize which is also good

497

00:16:54,629 --> 00:16:53,120

perhaps actually it might be a good idea

498

00:16:56,949 --> 00:16:54,639

to add a little bit more time between

499

00:16:59,509 --> 00:16:56,959

the talks of people

500

00:17:02,069 --> 00:16:59,519

but again we'll talk about these things

501  
00:17:05,029 --> 00:17:02,079  
well i guess the real ethos we try and

502  
00:17:06,230 --> 00:17:05,039  
aim for with with qed um

503  
00:17:08,549 --> 00:17:06,240  
is

504  
00:17:10,870 --> 00:17:08,559  
the speakers are very much there for the

505  
00:17:13,189 --> 00:17:10,880  
attendees yes and the organizers are

506  
00:17:15,189 --> 00:17:13,199  
there for the attendees and the venue

507  
00:17:16,309 --> 00:17:15,199  
and all the plans are there to have

508  
00:17:17,829 --> 00:17:16,319  
people there

509  
00:17:19,909 --> 00:17:17,839  
talking to each other and around each

510  
00:17:21,909 --> 00:17:19,919  
other so we always try and

511  
00:17:23,270 --> 00:17:21,919  
gear it not towards the speakers but

512  
00:17:25,350 --> 00:17:23,280  
towards the attendees and sometimes we

513  
00:17:27,669 --> 00:17:25,360

will even choose the speakers depending

514

00:17:29,350 --> 00:17:27,679

on who we think will be most likely to

515

00:17:31,270 --> 00:17:29,360

hang around the the attendees because

516

00:17:33,190 --> 00:17:31,280

what we love most is that i mean tonight

517

00:17:36,390 --> 00:17:33,200

you know we were in the bar and uh in

518

00:17:39,590 --> 00:17:36,400

the in the evening qed and nate phelps

519

00:17:41,990 --> 00:17:39,600

phenomenal keynote speaker uh a qd

520

00:17:44,230 --> 00:17:42,000

amazing speech you know i i was there

521

00:17:46,470 --> 00:17:44,240

was i was crying i was outright crying

522

00:17:48,870 --> 00:17:46,480

how wonderful his talk was how moving

523

00:17:51,830 --> 00:17:48,880

and emotional and utterly beautiful the

524

00:17:53,750 --> 00:17:51,840

way he expressed the the tragedy and

525

00:17:55,350 --> 00:17:53,760

then the positivity of his life in in

526

00:17:57,350 --> 00:17:55,360

that order the tragedy of his upbringing

527

00:17:58,710 --> 00:17:57,360

that the positivity of how he sort of

528

00:18:00,789 --> 00:17:58,720

punched his way out of that upbringing

529

00:18:03,110 --> 00:18:00,799

and became the man that he is now

530

00:18:04,230 --> 00:18:03,120

wonderful talk and he's just a guy who

531

00:18:06,230 --> 00:18:04,240

sat in the corner of the bar just

532

00:18:08,470 --> 00:18:06,240

chatting to people yeah and everybody we

533

00:18:09,590 --> 00:18:08,480

have here uh i think at this conference

534

00:18:10,950 --> 00:18:09,600

is just chatting to people at the bar

535

00:18:12,070 --> 00:18:10,960

and i think that's so so important that

536

00:18:14,390 --> 00:18:12,080

there is no

537

00:18:16,310 --> 00:18:14,400

i i hate more than anything this them

538

00:18:18,150 --> 00:18:16,320

and us mentality that there are no

539

00:18:20,070 --> 00:18:18,160

people bigger than us when we've had

540

00:18:21,430 --> 00:18:20,080

richard dawkins of previous communities

541

00:18:23,029 --> 00:18:21,440

the most wonderful thing i've seen is

542

00:18:24,789 --> 00:18:23,039

that um

543

00:18:25,830 --> 00:18:24,799

one of the the panel rooms that we had

544

00:18:27,750 --> 00:18:25,840

was a

545

00:18:29,990 --> 00:18:27,760

a particular debate which got very full

546

00:18:32,230 --> 00:18:30,000

and very vociferous and uh was very

547

00:18:33,830 --> 00:18:32,240

lively and at one point there was just

548

00:18:35,110 --> 00:18:33,840

richard dawkin just sat cross-legged on

549

00:18:36,950 --> 00:18:35,120

the floor there was no seats for him so

550

00:18:38,310 --> 00:18:36,960

he just came in and he sat cross-legged

551

00:18:40,310 --> 00:18:38,320

on the floor and he was just sort of

552

00:18:42,549 --> 00:18:40,320

contributing like everybody else because

553

00:18:44,630 --> 00:18:42,559

we seem to try we really try quite hard

554

00:18:46,230 --> 00:18:44,640

to engender this idea that everybody who

555

00:18:47,750 --> 00:18:46,240

turns up is as valid as everybody else

556

00:18:49,510 --> 00:18:47,760

whether you're speaking whether you're

557

00:18:51,669 --> 00:18:49,520

coming whether you're on a panel whether

558

00:18:53,990 --> 00:18:51,679

you're an organizer everybody we're

559

00:18:55,830 --> 00:18:54,000

skeptics we're here for the same reason

560

00:18:57,510 --> 00:18:55,840

um and we're here for the same goals

561

00:18:59,590 --> 00:18:57,520

really and i think if we keep that

562

00:19:03,510 --> 00:18:59,600

mentality that there is no

563

00:19:04,710 --> 00:19:03,520

class there is no um a vip that we're

564

00:19:06,390 --> 00:19:04,720

all just

565

00:19:07,830 --> 00:19:06,400

here because we believe in the same

566

00:19:09,750 --> 00:19:07,840

thing that i think that's kind of the

567

00:19:12,630 --> 00:19:09,760

best thing to kind of aim for absolutely

568

00:19:13,510 --> 00:19:12,640

absolutely and in fact i you had a green

569

00:19:15,270 --> 00:19:13,520

room

570

00:19:17,110 --> 00:19:15,280

which kind of what we sort of did sort

571

00:19:19,029 --> 00:19:17,120

of did you saw okay

572

00:19:22,310 --> 00:19:19,039

i actually knew i knew i knew where it

573

00:19:24,310 --> 00:19:22,320

was because on the first day

574

00:19:26,549 --> 00:19:24,320

nick asked me to i think you and nick

575

00:19:27,990 --> 00:19:26,559

asked me to carry some stuff there and

576

00:19:29,510 --> 00:19:28,000

then he was left untouched i actually

577

00:19:30,230 --> 00:19:29,520

used it for a couple of interviews but

578

00:19:31,909 --> 00:19:30,240

yeah

579

00:19:33,510 --> 00:19:31,919

none of the speakers knew where it was

580

00:19:35,909 --> 00:19:33,520

it wasn't well it never came up so we

581

00:19:38,870 --> 00:19:35,919

never felt any discussions

582

00:19:41,350 --> 00:19:38,880

but the reality is that um

583

00:19:42,789 --> 00:19:41,360

a green room is probably the the

584

00:19:45,430 --> 00:19:42,799

counterproductive from that perspective

585

00:19:47,190 --> 00:19:45,440

but sometimes speakers do sometimes need

586

00:19:49,110 --> 00:19:47,200

time to prepare so it's good to have

587

00:19:50,950 --> 00:19:49,120

that kind of facility sometimes perhaps

588

00:19:52,230 --> 00:19:50,960

for some speakers to just be able to go

589

00:19:54,710 --> 00:19:52,240

over the notes and all that but the

590

00:19:56,549 --> 00:19:54,720

reality is you know what i saw um paul

591

00:19:58,710 --> 00:19:56,559

sitting in the bar and going over things

592

00:20:00,390 --> 00:19:58,720

and i saw other um

593

00:20:02,310 --> 00:20:00,400

and i saw other other speakers just just

594

00:20:03,909 --> 00:20:02,320

you know you don't need that necessarily

595

00:20:06,549 --> 00:20:03,919

that space and i think

596

00:20:08,789 --> 00:20:06,559

green room could create that separation

597

00:20:10,070 --> 00:20:08,799

that vip thing yeah it's an odd one so

598

00:20:11,270 --> 00:20:10,080

um

599

00:20:12,230 --> 00:20:11,280

this is the first time we're in a new

600

00:20:16,230 --> 00:20:12,240

venue

601  
00:20:17,590 --> 00:20:16,240  
was lovely was it a little small for how

602  
00:20:19,590 --> 00:20:17,600  
big we've become which is which is a

603  
00:20:21,430 --> 00:20:19,600  
real testament to how much i think we've

604  
00:20:23,430 --> 00:20:21,440  
been captured the the kind of the the

605  
00:20:25,190 --> 00:20:23,440  
imagination of the uk skeptical even in

606  
00:20:26,710 --> 00:20:25,200  
european we've got so many european

607  
00:20:28,149 --> 00:20:26,720  
skeptics it's wonderful to see people

608  
00:20:30,549 --> 00:20:28,159  
from different uh countries coming here

609  
00:20:31,990 --> 00:20:30,559  
and talking about how it works

610  
00:20:33,029 --> 00:20:32,000  
yeah there's a lot of so many it's

611  
00:20:34,230 --> 00:20:33,039  
brilliant it's brilliant because it's

612  
00:20:35,830 --> 00:20:34,240  
quite easy to get to here i guess

613  
00:20:37,029 --> 00:20:35,840

because we're quite accessible

614

00:20:38,870 --> 00:20:37,039

um

615

00:20:40,549 --> 00:20:38,880

but in our previous venue we did have a

616

00:20:42,710 --> 00:20:40,559

green room and it was the balcony

617

00:20:44,149 --> 00:20:42,720

overlooking the main room uh and it was

618

00:20:45,430 --> 00:20:44,159

nice and it was kind of a little tricky

619

00:20:46,549 --> 00:20:45,440

to get out to get to and a lot of our

620

00:20:48,710 --> 00:20:46,559

speakers kind of hung around there while

621

00:20:49,990 --> 00:20:48,720

they were preparing notes and um but it

622

00:20:52,310 --> 00:20:50,000

was but a lot of others didn't and they

623

00:20:53,830 --> 00:20:52,320

were amongst the crowd and uh this year

624

00:20:55,909 --> 00:20:53,840

we do have a green room it's a little

625

00:20:58,310 --> 00:20:55,919

trickier to get to it's not a little

626  
00:21:00,149 --> 00:20:58,320  
tricky it's a bloody maze well the whole

627  
00:21:01,270 --> 00:21:00,159  
hotel is a maze

628  
00:21:03,669 --> 00:21:01,280  
but

629  
00:21:05,510 --> 00:21:03,679  
it's it will be easy to get to uh no

630  
00:21:07,990 --> 00:21:05,520  
one's actually quite easy to get to it's

631  
00:21:10,070 --> 00:21:08,000  
not very easy to get back

632  
00:21:11,590 --> 00:21:10,080  
there's a split on the way back it's

633  
00:21:14,149 --> 00:21:11,600  
dreams you get it wrong

634  
00:21:15,909 --> 00:21:14,159  
if you get it wrong you end up on stage

635  
00:21:18,149 --> 00:21:15,919  
yeah yeah but i mean

636  
00:21:20,230 --> 00:21:18,159  
i mean that's true but i quite like that

637  
00:21:21,669 --> 00:21:20,240  
because the thing is this hotelism is

638  
00:21:23,909 --> 00:21:21,679

but it's also amazed with a million

639

00:21:25,270 --> 00:21:23,919

different corridors so i mean we're sat

640

00:21:26,390 --> 00:21:25,280

in one of the side rooms that we didn't

641

00:21:27,590 --> 00:21:26,400

hire but it was just one of the rooms

642

00:21:30,230 --> 00:21:27,600

that was free the whole time there's

643

00:21:32,149 --> 00:21:30,240

there's always space in this building if

644

00:21:34,070 --> 00:21:32,159

you need some private time but what we

645

00:21:36,149 --> 00:21:34,080

didn't want is people just hiding away

646

00:21:37,990 --> 00:21:36,159

and um yeah but but we also i mean we

647

00:21:39,510 --> 00:21:38,000

choose our speakers

648

00:21:41,029 --> 00:21:39,520

very specifically for people that we

649

00:21:42,630 --> 00:21:41,039

think are going to

650

00:21:43,990 --> 00:21:42,640

be very happy being around people i

651

00:21:45,750 --> 00:21:44,000

think that's so so important we don't

652

00:21:47,350 --> 00:21:45,760

want someone who wants to come in do

653

00:21:49,270 --> 00:21:47,360

their talk and leave again because we

654

00:21:50,230 --> 00:21:49,280

want to say we're all the same you know

655

00:21:53,669 --> 00:21:50,240

we're all

656

00:21:55,190 --> 00:21:53,679

the the person who sat on row 17 of uh

657

00:21:57,350 --> 00:21:55,200

of the conference this year might be on

658

00:21:58,950 --> 00:21:57,360

stage next year it all depends on the

659

00:22:00,230 --> 00:21:58,960

work that you do and the story that you

660

00:22:01,669 --> 00:22:00,240

have to tell the messages that you're

661

00:22:03,510 --> 00:22:01,679

you're like it's actually it's a little

662

00:22:05,830 --> 00:22:03,520

bit more you said next year

663

00:22:08,630 --> 00:22:05,840

the person who was on stage two hours

664

00:22:09,510 --> 00:22:08,640

ago he's on on row 17 now and it was

665

00:22:12,710 --> 00:22:09,520

yeah

666

00:22:14,789 --> 00:22:12,720

that

667

00:22:17,110 --> 00:22:14,799

um

668

00:22:18,149 --> 00:22:17,120

there was any any distinction or

669

00:22:19,909 --> 00:22:18,159

anything

670

00:22:21,029 --> 00:22:19,919

like there's no and i think aesthetics i

671

00:22:22,950 --> 00:22:21,039

don't believe that we should have a

672

00:22:24,390 --> 00:22:22,960

hierarchy i fundamentally don't i think

673

00:22:26,630 --> 00:22:24,400

by and large look definitely at

674

00:22:29,190 --> 00:22:26,640

australian conferences

675

00:22:30,870 --> 00:22:29,200

we we haven't had any any

676

00:22:32,390 --> 00:22:30,880

uh

677

00:22:34,230 --> 00:22:32,400

we haven't had anything that would

678

00:22:36,149 --> 00:22:34,240

suggest a hierarchy with you know the

679

00:22:38,470 --> 00:22:36,159

level of accessibility even at tam i

680

00:22:41,270 --> 00:22:38,480

think to a large extent with a probably

681

00:22:42,789 --> 00:22:41,280

a few exceptions um there is that

682

00:22:43,990 --> 00:22:42,799

accessibility and i think that's what

683

00:22:45,190 --> 00:22:44,000

one of the things that people like about

684

00:22:47,110 --> 00:22:45,200

going to town first i don't know have

685

00:22:48,870 --> 00:22:47,120

you ever been to town no i've never i've

686

00:22:50,549 --> 00:22:48,880

never come into america let alone to

687

00:22:52,710 --> 00:22:50,559

town but but i think the curious thing i

688

00:22:56,230 --> 00:22:52,720

guess even about people in general is

689

00:22:58,950 --> 00:22:56,240

that cultures uh self-arrange

690

00:23:00,789 --> 00:22:58,960

unless you actively stop them so you

691

00:23:02,310 --> 00:23:00,799

have to actively stop people arranging

692

00:23:04,630 --> 00:23:02,320

into a hierarchy so what we're trying to

693

00:23:05,750 --> 00:23:04,640

do at qed is actively try and

694

00:23:07,110 --> 00:23:05,760

you know

695

00:23:09,590 --> 00:23:07,120

it's gonna sound ridiculous but as a

696

00:23:11,510 --> 00:23:09,600

metaphor but you you put oil on water

697

00:23:13,750 --> 00:23:11,520

and the oil rises on the top until you

698

00:23:15,510 --> 00:23:13,760

put some uh some washing up liquid on it

699

00:23:17,190 --> 00:23:15,520

and everything mixes back together and

700

00:23:19,830 --> 00:23:17,200

as the organizers we try and be the the

701

00:23:21,750 --> 00:23:19,840

washing up liquid to to stop the oil and

702

00:23:24,149 --> 00:23:21,760

the water separately say it's all just

703

00:23:25,430 --> 00:23:24,159

one chemistry metaphor i know i know and

704

00:23:27,510 --> 00:23:25,440

i'm an english literature

705

00:23:29,750 --> 00:23:27,520

but it was a metaphor and therefore i'm

706

00:23:31,830 --> 00:23:29,760

qualified to do it i have a degree that

707

00:23:33,430 --> 00:23:31,840

says i can do metaphors and i'm allowed

708

00:23:37,669 --> 00:23:33,440

yeah even if they're wrong

709

00:23:42,390 --> 00:23:39,669

it was too too scientific

710

00:23:44,070 --> 00:23:42,400

yeah so uh um

711

00:23:46,549 --> 00:23:44,080

how do you feel about the the changes

712

00:23:49,750 --> 00:23:46,559

that you've um made in uh skeptics with

713

00:23:51,750 --> 00:23:49,760

a k now with alice uh as the new member

714

00:23:53,510 --> 00:23:51,760

mike mike already spoke about her oh

715

00:23:55,190 --> 00:23:53,520

he's he's always always talk about us i

716

00:23:57,750 --> 00:23:55,200

mean i i absolutely love us and the

717

00:23:59,430 --> 00:23:57,760

thing is i loved colin well i love colin

718

00:24:00,710 --> 00:23:59,440

it's not like he's dead or gone oh he's

719

00:24:02,630 --> 00:24:00,720

like if you're not on the show anymore

720

00:24:03,990 --> 00:24:02,640

you're dead to me no he's very much a

721

00:24:05,909 --> 00:24:04,000

part of my life and he's a wonderful

722

00:24:07,669 --> 00:24:05,919

wonderful guy and he's a lovely fellow

723

00:24:09,029 --> 00:24:07,679

but obviously he's he's about to become

724

00:24:10,789 --> 00:24:09,039

a father for the first time and he just

725

00:24:13,190 --> 00:24:10,799

didn't have the time to uh to go and

726

00:24:14,789 --> 00:24:13,200

talk nonsense with a couple of [h\_\_h]

727

00:24:17,190 --> 00:24:14,799

like me and mike for a couple of hours

728

00:24:19,430 --> 00:24:17,200

on every other week um but yeah it's

729

00:24:21,750 --> 00:24:19,440

really nice because alice uh we've known

730

00:24:23,590 --> 00:24:21,760

us for a very very long time and i think

731

00:24:26,070 --> 00:24:23,600

as the emergency skeptic society we seem

732

00:24:27,590 --> 00:24:26,080

to be growing with a number of different

733

00:24:29,669 --> 00:24:27,600

people that we kind of

734

00:24:32,390 --> 00:24:29,679

if you i genuinely believe if you do

735

00:24:33,990 --> 00:24:32,400

things the right way with the right kind

736

00:24:35,750 --> 00:24:34,000

of spirit you know the right intention

737

00:24:36,549 --> 00:24:35,760

you're really trying to do it the right

738

00:24:38,870 --> 00:24:36,559

way

739

00:24:40,950 --> 00:24:38,880

you gravitate people toward you who

740

00:24:42,789 --> 00:24:40,960

recognize your intention and so these

741

00:24:44,070 --> 00:24:42,799

guys they're trying to do something and

742

00:24:45,669 --> 00:24:44,080

they i'd like to do something as well

743

00:24:47,269 --> 00:24:45,679

and you start to sort of attract people

744

00:24:49,029 --> 00:24:47,279

like a little kind of magnet or a

745

00:24:50,870 --> 00:24:49,039

gravitational force you start to sort of

746

00:24:53,350 --> 00:24:50,880

build your little bulk of uh of

747

00:24:54,549 --> 00:24:53,360

collectives across your community

748

00:24:56,230 --> 00:24:54,559

and so from there you can start seeing

749

00:24:58,149 --> 00:24:56,240

well who's got what kind of skills and

750

00:25:00,470 --> 00:24:58,159

and i love alice because alice has got

751  
00:25:02,230 --> 00:25:00,480  
um well she's a hard scientist which me

752  
00:25:03,190 --> 00:25:02,240  
and mike certainly aren't so this will

753  
00:25:04,950 --> 00:25:03,200  
be the first time we're really

754  
00:25:07,430 --> 00:25:04,960  
challenged on science because alice

755  
00:25:11,029 --> 00:25:07,440  
knows stuff and does she experiment

756  
00:25:12,950 --> 00:25:11,039  
alice has cells in a dish somewhere

757  
00:25:14,390 --> 00:25:12,960  
that's more than me mike will ever have

758  
00:25:16,710 --> 00:25:14,400  
you know that's more scientific than we

759  
00:25:19,430 --> 00:25:16,720  
could ever pretend to do i have kids i

760  
00:25:21,350 --> 00:25:19,440  
have cells in a dish

761  
00:25:23,510 --> 00:25:21,360  
every day

762  
00:25:24,789 --> 00:25:23,520  
and i have to fight to get people to put

763  
00:25:26,710 --> 00:25:24,799

them in

764

00:25:28,470 --> 00:25:26,720

yeah yeah so we're so yeah we're really

765

00:25:29,830 --> 00:25:28,480

happy we've had other members of the uh

766

00:25:32,470 --> 00:25:29,840

skeptic society on there as well we've

767

00:25:34,149 --> 00:25:32,480

had garand who is a plant biologist and

768

00:25:36,710 --> 00:25:34,159

again incredibly knowledgeable about the

769

00:25:39,269 --> 00:25:36,720

stuff that uh he does and it's it's

770

00:25:41,909 --> 00:25:39,279

impressive to have somebody who usually

771

00:25:43,269 --> 00:25:41,919

uh we're too busy ridiculing in the pub

772

00:25:44,549 --> 00:25:43,279

for various different reasons then

773

00:25:45,590 --> 00:25:44,559

suddenly he comes on the show and he

774

00:25:47,510 --> 00:25:45,600

actually talks about the stuff he really

775

00:25:49,350 --> 00:25:47,520

knows about it's like oh this this guy

776

00:25:51,350 --> 00:25:49,360

knows stuff it turns out we know a guy

777

00:25:53,750 --> 00:25:51,360

who knows stuff how did this happen

778

00:25:55,990 --> 00:25:53,760

because i don't know stuff i just i just

779

00:25:58,149 --> 00:25:56,000

make silly jokes i don't make puns

780

00:25:59,830 --> 00:25:58,159

basically make puns and kind of get a

781

00:26:01,269 --> 00:25:59,840

bit irritated people who are hurting

782

00:26:02,230 --> 00:26:01,279

people that's kind of as though i do i

783

00:26:03,750 --> 00:26:02,240

get a little passionate and that's the

784

00:26:05,590 --> 00:26:03,760

best that i can do but we sometimes kind

785

00:26:06,950 --> 00:26:05,600

of gravitate people towards us who who

786

00:26:08,710 --> 00:26:06,960

know stuff and do stuff and that's quite

787

00:26:10,950 --> 00:26:08,720

exciting

788

00:26:12,710 --> 00:26:10,960

marsh i must tell you that um first of

789

00:26:14,549 --> 00:26:12,720

all it's been a great pleasure meeting

790

00:26:16,789 --> 00:26:14,559

you after being in touch for four years

791

00:26:19,750 --> 00:26:16,799

so long

792

00:26:21,990 --> 00:26:19,760

and i say you're a long uh a long and

793

00:26:24,630 --> 00:26:22,000

auspicious line of uh australians who've

794

00:26:27,029 --> 00:26:24,640

come to qed and been incredibly

795

00:26:28,630 --> 00:26:27,039

supportive and utterly bloody lovely you

796

00:26:29,830 --> 00:26:28,640

know there's yourself and rachey and

797

00:26:31,590 --> 00:26:29,840

richard we've had some like really

798

00:26:32,870 --> 00:26:31,600

lovely uh australian skeptics so i think

799

00:26:34,789 --> 00:26:32,880

there's a real affinity between uk

800

00:26:36,310 --> 00:26:34,799

skeptics and aussies we should do things

801  
00:26:45,750 --> 00:26:36,320  
together as well we should we absolutely

802  
00:26:49,269 --> 00:26:47,750  
hey guys this is jay from the skeptic's

803  
00:26:50,870 --> 00:26:49,279  
guide to the university whoa whoa whoa

804  
00:26:52,470 --> 00:26:50,880  
hold on whoa

805  
00:26:54,070 --> 00:26:52,480  
everybody knows i'm the only reason to

806  
00:26:55,590 --> 00:26:54,080  
listen to the freaking show right i mean

807  
00:26:59,669 --> 00:26:55,600  
if it was up to me the show would start

808  
00:27:04,789 --> 00:27:02,549  
yeah boy well rebecca would hate that

809  
00:27:06,310 --> 00:27:04,799  
probably but i mean i'd rock that listen

810  
00:27:08,070 --> 00:27:06,320  
to our show and you can learn about cool

811  
00:27:09,510 --> 00:27:08,080  
stuff like a technological singularity

812  
00:27:11,029 --> 00:27:09,520  
which is someday when technology

813  
00:27:12,470 --> 00:27:11,039

progresses so fast that it would make

814

00:27:14,390 --> 00:27:12,480

the industrial revolution look like a

815

00:27:16,510 --> 00:27:14,400

kid's science project anyway come check

816

00:27:17,990 --> 00:27:16,520

us out at

817

00:27:31,430 --> 00:27:18,000

[www.theskepticsguide.org](http://www.theskepticsguide.org) and get your

818

00:27:35,750 --> 00:27:33,430

welcome to a week in science from aria

819

00:27:38,870 --> 00:27:35,760

oz bringing you the science you need to

820

00:27:41,029 --> 00:27:38,880

know mmm chocolate one of the world's

821

00:27:46,870 --> 00:27:41,039

favorite sweet foods words cannot

822

00:27:50,950 --> 00:27:48,789

the cacao bean the key ingredients of

823

00:27:52,710 --> 00:27:50,960

chocolate originates from south america

824

00:27:54,789 --> 00:27:52,720

and was brought to europe by the spanish

825

00:27:56,310 --> 00:27:54,799

in the 16th century since then there

826

00:27:58,710 --> 00:27:56,320

have been a number of benefits being

827

00:28:00,389 --> 00:27:58,720

promoted however research has started to

828

00:28:02,710 --> 00:28:00,399

show that chocolate may indeed have a

829

00:28:04,389 --> 00:28:02,720

number of good effects on our health in

830

00:28:06,230 --> 00:28:04,399

particular cocoa is a rich source of

831

00:28:07,990 --> 00:28:06,240

flavonols chemicals which have an

832

00:28:09,909 --> 00:28:08,000

anti-inflammatory effect

833

00:28:11,430 --> 00:28:09,919

they accumulate in the brain regions

834

00:28:13,669 --> 00:28:11,440

involved in learning and memory

835

00:28:15,430 --> 00:28:13,679

especially the hippocampus flavonols

836

00:28:17,430 --> 00:28:15,440

have also been shown to increase blood

837

00:28:18,710 --> 00:28:17,440

flow to the brain while this doesn't

838

00:28:23,350 --> 00:28:18,720

necessarily mean that chocolate will

839

00:28:27,110 --> 00:28:24,950

there is also evidence showing coco's

840

00:28:29,029 --> 00:28:27,120

benefits for the haas and circulation

841

00:28:31,430 --> 00:28:29,039

including reducing blood pressure by

842

00:28:33,269 --> 00:28:31,440

relaxing vessel muscles dark chocolate

843

00:28:34,870 --> 00:28:33,279

reduces platelet aggregation in blood

844

00:28:36,549 --> 00:28:34,880

vessels which might help prevent

845

00:28:38,310 --> 00:28:36,559

blockages which can result in heart

846

00:28:40,310 --> 00:28:38,320

attacks we've only touched on the health

847

00:28:42,149 --> 00:28:40,320

benefits of chocolate there is also

848

00:28:44,389 --> 00:28:42,159

evidence that has positive effects on

849

00:28:46,870 --> 00:28:44,399

cholesterol insulin resistance and blood

850

00:28:49,110 --> 00:28:46,880

vessel function and improves mood and

851

00:28:50,630 --> 00:28:49,120

well-being it should be noted though

852

00:28:52,950 --> 00:28:50,640

that the processing of cocoa to

853

00:28:54,630 --> 00:28:52,960

chocolate reduces the flavonol content

854

00:28:57,110 --> 00:28:54,640

so studies which show an effect using

855

00:28:59,350 --> 00:28:57,120

cocoa may not necessarily have the same

856

00:29:01,029 --> 00:28:59,360

effect using processed chocolate as

857

00:29:03,669 --> 00:29:01,039

always talk to your doctor about the

858

00:29:07,909 --> 00:29:03,679

best health plan for you and now four

859

00:29:12,310 --> 00:29:09,990

cacao beans the base ingredients of

860

00:29:15,190 --> 00:29:12,320

chocolate were used by the aztecs as a

861

00:29:17,909 --> 00:29:15,200

form of currency cacao beans grow inside

862

00:29:18,950 --> 00:29:17,919

pods with each pod containing around 40

863

00:29:21,909 --> 00:29:18,960

beans

864

00:29:23,990 --> 00:29:21,919

43 of nobel prize winners eat chocolate

865

00:29:27,029 --> 00:29:24,000

more than twice per week compared to

866

00:29:28,870 --> 00:29:27,039

just 25 of the general public and while

867

00:29:30,470 --> 00:29:28,880

we're talking about nobel prizes

868

00:29:32,789 --> 00:29:30,480

countries with the highest chocolate

869

00:29:34,070 --> 00:29:32,799

consumption also have the most nobel

870

00:29:36,230 --> 00:29:34,080

prize winners

871

00:29:38,070 --> 00:29:36,240

that's it for this week in science want

872

00:29:40,549 --> 00:29:38,080

to find out more about chocolate who

873

00:29:43,830 --> 00:29:40,559

wouldn't go to the aria's website

874

00:29:48,789 --> 00:29:46,389

follow us on twitter at rios and like us

875

00:30:04,389 --> 00:29:48,799

on facebook i'm ben lewis and we'll

876

00:30:08,230 --> 00:30:06,149

the internet may be the information

877

00:30:09,750 --> 00:30:08,240

superhighway but there is no promise

878

00:30:10,789 --> 00:30:09,760

that the information is factually

879

00:30:12,310 --> 00:30:10,799

correct

880

00:30:14,230 --> 00:30:12,320

so when people use the internet to

881

00:30:16,070 --> 00:30:14,240

educate themselves they are at risk of

882

00:30:17,430 --> 00:30:16,080

being misinformed and reaching false

883

00:30:19,430 --> 00:30:17,440

conclusions

884

00:30:21,430 --> 00:30:19,440

but don't worry there is a solution

885

00:30:22,870 --> 00:30:21,440

roboto is a browser plugin which tells

886

00:30:24,630 --> 00:30:22,880

users when the web page they are

887

00:30:26,470 --> 00:30:24,640

currently viewing has been disputed

888

00:30:28,870 --> 00:30:26,480

elsewhere on the internet

889

00:30:31,190 --> 00:30:28,880

with rebutta installed anytime you read

890

00:30:33,029 --> 00:30:31,200

a page making a claim of truth you have

891

00:30:35,350 --> 00:30:33,039

immediate access to another page which

892

00:30:36,710 --> 00:30:35,360

explains why that claim is incorrect

893

00:30:38,470 --> 00:30:36,720

so you not only get an opposing

894

00:30:40,230 --> 00:30:38,480

perspective and more information on the

895

00:30:42,230 --> 00:30:40,240

subject but you get a direct

896

00:30:45,029 --> 00:30:42,240

demonstration of how to critically

897

00:30:46,710 --> 00:30:45,039

analyze the page you just read

898

00:30:49,110 --> 00:30:46,720

imagine a world where every internet

899

00:30:50,470 --> 00:30:49,120

user was able to critically reflect on

900

00:30:51,909 --> 00:30:50,480

the information that the internet

901  
00:30:53,029 --> 00:30:51,919  
presents to them

902  
00:30:55,190 --> 00:30:53,039  
because that is the internet that

903  
00:30:56,549 --> 00:30:55,200  
rebutta and its community of volunteers

904  
00:31:01,830 --> 00:30:56,559  
are building

905  
00:31:05,190 --> 00:31:03,750  
install the plugin and see what you can

906  
00:31:21,750 --> 00:31:05,200  
do to help us bring about this

907  
00:31:25,990 --> 00:31:24,230  
what we want is some more

908  
00:31:32,950 --> 00:31:26,000  
evidence please

909  
00:31:37,750 --> 00:31:35,590  
hello this is joe alabaster

910  
00:31:41,830 --> 00:31:37,760  
from the courier mail newspaper dated

911  
00:31:43,509 --> 00:31:41,840  
april 13 2014 by laura chalmers

912  
00:31:45,590 --> 00:31:43,519  
it started as a niggling cough that

913  
00:31:47,990 --> 00:31:45,600

wouldn't go away when heidi robertson

914

00:31:49,830 --> 00:31:48,000

was 25 weeks pregnant

915

00:31:51,990 --> 00:31:49,840

before long the cough turned into severe

916

00:31:54,230 --> 00:31:52,000

coughing fits that left her vomiting and

917

00:31:55,110 --> 00:31:54,240

fearing for her baby's health

918

00:31:58,149 --> 00:31:55,120

quote

919

00:32:00,070 --> 00:31:58,159

it was terrifying i burst blood vessels

920

00:32:02,470 --> 00:32:00,080

i was incontinent and i vomited after

921

00:32:04,310 --> 00:32:02,480

every coughing fit for three months end

922

00:32:06,389 --> 00:32:04,320

quote she said

923

00:32:08,149 --> 00:32:06,399

quote i would cough so violently that i

924

00:32:09,830 --> 00:32:08,159

was worried that i could lose the baby

925

00:32:12,389 --> 00:32:09,840

end quote

926

00:32:14,230 --> 00:32:12,399

mrs robertson 40 considers herself

927

00:32:16,710 --> 00:32:14,240

extremely lucky that she didn't infect

928

00:32:19,590 --> 00:32:16,720

her newborn hugo now five when he was

929

00:32:21,029 --> 00:32:19,600

born in 2009 or her older son charlie

930

00:32:22,789 --> 00:32:21,039

now seven

931

00:32:25,110 --> 00:32:22,799

hugo was born in the royal brisbane

932

00:32:27,110 --> 00:32:25,120

hospital only a few weeks before dana

933

00:32:29,350 --> 00:32:27,120

mccaffrey the four-week-old daughter of

934

00:32:32,470 --> 00:32:29,360

tony and david mccaffrey who died from

935

00:32:33,350 --> 00:32:32,480

who pinkoff in march 2009

936

00:32:35,029 --> 00:32:33,360

quote

937

00:32:36,789 --> 00:32:35,039

i could have easily passed this on to my

938

00:32:38,950 --> 00:32:36,799

baby if i was still infectious when he

939

00:32:41,430 --> 00:32:38,960

was born the fact he was not infected

940

00:32:42,549 --> 00:32:41,440

was a miracle end quote mrs robertson

941

00:32:44,950 --> 00:32:42,559

said

942

00:32:46,870 --> 00:32:44,960

quote i heard about dana's death at the

943

00:32:48,950 --> 00:32:46,880

time and given i had recently had the

944

00:32:50,870 --> 00:32:48,960

diagnosis myself i was absolutely

945

00:32:53,350 --> 00:32:50,880

horrified to think that could have been

946

00:32:55,110 --> 00:32:53,360

my baby end quote

947

00:32:56,470 --> 00:32:55,120

mrs robertson is part of a group of

948

00:32:57,750 --> 00:32:56,480

northern rivers mothers raising

949

00:32:59,990 --> 00:32:57,760

awareness of the importance of

950

00:33:01,669 --> 00:33:00,000

vaccinations for parents of newborns and

951  
00:33:02,630 --> 00:33:01,679  
pregnant women

952  
00:33:04,230 --> 00:33:02,640  
quote

953  
00:33:06,630 --> 00:33:04,240  
the awareness that adults do need a

954  
00:33:07,830 --> 00:33:06,640  
booster is just not out there end quote

955  
00:33:10,710 --> 00:33:07,840  
she said

956  
00:33:13,029 --> 00:33:10,720  
quote i had every vaccination as a child

957  
00:33:14,870 --> 00:33:13,039  
and lots more as i worked overseas but

958  
00:33:17,029 --> 00:33:14,880  
one booster never mentioned to me was

959  
00:33:18,549 --> 00:33:17,039  
the whooping cough booster it is still a

960  
00:33:19,430 --> 00:33:18,559  
message that is not seeming to get

961  
00:33:21,110 --> 00:33:19,440  
around

962  
00:33:22,789 --> 00:33:21,120  
end quote

963  
00:33:25,110 --> 00:33:22,799

parents of babies under six months

964

00:33:28,710 --> 00:33:25,120

received free vaccines in queensland but

965

00:33:30,549 --> 00:33:28,720

the program ceased on june 30 2012.

966

00:33:32,549 --> 00:33:30,559

the national immunisation handbook

967

00:33:34,630 --> 00:33:32,559

recommends a whooping cough booster

968

00:33:36,630 --> 00:33:34,640

either pre-pregnancy during the third

969

00:33:38,310 --> 00:33:36,640

trimester or as soon as possible after

970

00:33:40,950 --> 00:33:38,320

delivery

971

00:33:43,190 --> 00:33:40,960

ama queensland president-elect dr sean

972

00:33:44,630 --> 00:33:43,200

rudd said parents and grandparents were

973

00:33:47,430 --> 00:33:44,640

often keen to get a whooping cough

974

00:33:49,430 --> 00:33:47,440

booster when advised of the evidence

975

00:33:52,149 --> 00:33:49,440

queensland health communicable diseases

976

00:33:54,070 --> 00:33:52,159

unit senior director dr sonja bennett

977

00:33:56,230 --> 00:33:54,080

encouraged parents of newborns and other

978

00:33:58,950 --> 00:33:56,240

family members in contact with the baby

979

00:34:00,870 --> 00:33:58,960

to get the whooping cough vaccine

980

00:34:02,549 --> 00:34:00,880

quote having government support for

981

00:34:04,310 --> 00:34:02,559

these things can certainly improve and

982

00:34:05,590 --> 00:34:04,320

increase the uptake and that would be a

983

00:34:13,030 --> 00:34:05,600

good thing

984

00:34:17,109 --> 00:34:15,190

virtual skeptics is a weekly web show in

985

00:34:19,270 --> 00:34:17,119

which we discuss the latest news in

986

00:34:21,190 --> 00:34:19,280

skepticism whether it's a new case of

987

00:34:23,030 --> 00:34:21,200

spontaneous human combustion a

988

00:34:25,349 --> 00:34:23,040

conspiracy theory the latest update on

989

00:34:26,950 --> 00:34:25,359

the upcoming robot apocalypse tech news

990

00:34:29,190 --> 00:34:26,960

for skeptics or the latest wacky

991

00:34:31,430 --> 00:34:29,200

religious claim we cover it all

992

00:34:34,149 --> 00:34:31,440

we record the show live as a google plus

993

00:34:36,389 --> 00:34:34,159

on-air hangout so join us and our host

994

00:34:39,109 --> 00:34:36,399

brian gregory for an hour of mostly

995

00:34:42,190 --> 00:34:39,119

intelligent talk every wednesday at 8pm

996

00:34:44,310 --> 00:34:42,200

eastern u.s time watch us at

997

00:34:47,589 --> 00:34:44,320

virtualskeptics.com and participate in

998

00:34:49,909 --> 00:34:47,599

the show on our hashtag virtualeskeptics

999

00:35:08,790 --> 00:34:49,919

the virtual skeptics it's like meet the

1000

00:35:13,109 --> 00:35:10,630

and joining me now all the way from

1001  
00:35:13,990 --> 00:35:13,119  
olimoto's in the czech republic it's

1002  
00:35:15,349 --> 00:35:14,000  
best

1003  
00:35:17,430 --> 00:35:15,359  
hello bish

1004  
00:35:20,150 --> 00:35:17,440  
hi richard how are you i'm doing really

1005  
00:35:22,710 --> 00:35:20,160  
well i'm envious oh i'm so envious that

1006  
00:35:24,150 --> 00:35:22,720  
you're in olimoto's at the uh afo the

1007  
00:35:26,790 --> 00:35:24,160  
film festival in the czech republic

1008  
00:35:28,790 --> 00:35:26,800  
that's where we met this time last year

1009  
00:35:31,270 --> 00:35:28,800  
uh how was it this year

1010  
00:35:33,349 --> 00:35:31,280  
it's been it's been really wonderful and

1011  
00:35:37,349 --> 00:35:33,359  
uh we're missing you

1012  
00:35:40,950 --> 00:35:37,359  
and the people here are pretty awesome

1013  
00:35:42,310 --> 00:35:40,960

um you have some you have origami

1014

00:35:44,630 --> 00:35:42,320

left out

1015

00:35:46,710 --> 00:35:44,640

around the convict comic of course is

1016

00:35:49,270 --> 00:35:46,720

the university where where the festival

1017

00:35:51,750 --> 00:35:49,280

is is held so your legend lives on here

1018

00:35:53,750 --> 00:35:51,760

very profoundly oh that's that's that's

1019

00:35:56,069 --> 00:35:53,760

really nice to know if i can't be there

1020

00:35:57,910 --> 00:35:56,079

in in the flesh at least some of my um

1021

00:35:59,829 --> 00:35:57,920

creations can be scattered about the

1022

00:36:02,470 --> 00:35:59,839

czech republic that's nice

1023

00:36:04,790 --> 00:36:02,480

so no but so you let's talk a little bit

1024

00:36:06,470 --> 00:36:04,800

about why you're at the uh the film

1025

00:36:09,030 --> 00:36:06,480

festival a little bit about the festival

1026  
00:36:10,630 --> 00:36:09,040  
itself uh we as i said we met there last

1027  
00:36:12,550 --> 00:36:10,640  
year we were both on the international

1028  
00:36:14,870 --> 00:36:12,560  
jury to uh select the best science

1029  
00:36:18,550 --> 00:36:14,880  
documentary and i believe that you're at

1030  
00:36:21,030 --> 00:36:18,560  
the uh the gathering now uh after the uh

1031  
00:36:22,790 --> 00:36:21,040  
awards for this year the main

1032  
00:36:24,470 --> 00:36:22,800  
award i guess is one the one that comes

1033  
00:36:26,550 --> 00:36:24,480  
from the international jury of which you

1034  
00:36:28,630 --> 00:36:26,560  
and i were apart last year

1035  
00:36:29,910 --> 00:36:28,640  
and that went to a german film about

1036  
00:36:31,349 --> 00:36:29,920  
honeybees

1037  
00:36:33,829 --> 00:36:31,359  
i didn't have a chance to see it this

1038  
00:36:35,270 --> 00:36:33,839

year but i saw one clip and the

1039

00:36:36,630 --> 00:36:35,280

cinematography was amazing and

1040

00:36:39,270 --> 00:36:36,640

apparently they really explained the

1041

00:36:41,030 --> 00:36:39,280

science behind how bees work as a team

1042

00:36:42,790 --> 00:36:41,040

and then go on

1043

00:36:45,510 --> 00:36:42,800

to create honey for

1044

00:36:47,270 --> 00:36:45,520

well themselves and also for us

1045

00:36:49,510 --> 00:36:47,280

wow fascinating that sounds absolutely

1046

00:36:52,470 --> 00:36:49,520

fascinating and i have such fond

1047

00:36:54,150 --> 00:36:52,480

memories of olomots the little uh

1048

00:36:56,230 --> 00:36:54,160

little city there in the czech republic

1049

00:36:58,550 --> 00:36:56,240

is so beautiful and such a lovely

1050

00:37:01,589 --> 00:36:58,560

setting uh and i imagine you were just

1051

00:37:03,190 --> 00:37:01,599

uh equally as charmed this year

1052

00:37:04,470 --> 00:37:03,200

yeah it's really fantastic the nice

1053

00:37:05,430 --> 00:37:04,480

thing about coming back the second year

1054

00:37:07,430 --> 00:37:05,440

of course is that you're a little bit

1055

00:37:08,630 --> 00:37:07,440

more familiar with everything you know

1056

00:37:10,790 --> 00:37:08,640

all the people

1057

00:37:12,390 --> 00:37:10,800

and i was a little bit more relaxed all

1058

00:37:14,069 --> 00:37:12,400

the time when i had to speak and i had a

1059

00:37:16,390 --> 00:37:14,079

few more engagements this year compared

1060

00:37:18,310 --> 00:37:16,400

to last year and so it was nice to be a

1061

00:37:20,550 --> 00:37:18,320

little bit primed

1062

00:37:22,390 --> 00:37:20,560

i'm delighted to hear it and i i

1063

00:37:24,390 --> 00:37:22,400

certainly hope one day i'll be able to

1064

00:37:25,990 --> 00:37:24,400

attend that festival again it certainly

1065

00:37:28,790 --> 00:37:26,000

uh was

1066

00:37:30,710 --> 00:37:28,800

such a wonderful experience and on top

1067

00:37:32,470 --> 00:37:30,720

of that you got to spend time with one

1068

00:37:34,710 --> 00:37:32,480

of my favorite people the astronomer

1069

00:37:36,470 --> 00:37:34,720

pamela gay

1070

00:37:39,109 --> 00:37:36,480

tamague and i did a

1071

00:37:40,630 --> 00:37:39,119

interview for the national czech radio

1072

00:37:42,069 --> 00:37:40,640

there was like a half an hour segment

1073

00:37:42,950 --> 00:37:42,079

called leonardo

1074

00:37:44,310 --> 00:37:42,960

and

1075

00:37:46,870 --> 00:37:44,320

they were on there to speak with her a

1076

00:37:48,310 --> 00:37:46,880

little bit about her cosmo quest website

1077

00:37:52,069 --> 00:37:48,320

and then afterwards they wanted to speak

1078

00:37:54,630 --> 00:37:52,079

with me because of my ambitions and plan

1079

00:37:56,870 --> 00:37:54,640

to go live on mars

1080

00:37:59,510 --> 00:37:56,880

well let's get back to this uh wonderful

1081

00:38:02,390 --> 00:37:59,520

and interesting ambition plan dream

1082

00:38:03,910 --> 00:38:02,400

desire you have uh now a few weeks ago

1083

00:38:05,750 --> 00:38:03,920

we had listeners from all around the

1084

00:38:08,150 --> 00:38:05,760

world writing questions to you because

1085

00:38:12,390 --> 00:38:08,160

you were locked away in the desert in

1086

00:38:14,470 --> 00:38:12,400

utah i think it was uh simulating a mass

1087

00:38:16,470 --> 00:38:14,480

mission uh living in a little

1088

00:38:19,190 --> 00:38:16,480

environment there only going outside in

1089

00:38:20,230 --> 00:38:19,200

a spacesuit how can you sum up that

1090

00:38:21,589 --> 00:38:20,240

experience do you think it was

1091

00:38:22,790 --> 00:38:21,599

worthwhile do you think you learned a

1092

00:38:24,630 --> 00:38:22,800

lot

1093

00:38:26,950 --> 00:38:24,640

it was definitely worthwhile i learned a

1094

00:38:28,950 --> 00:38:26,960

lot both because of the simulation

1095

00:38:31,589 --> 00:38:28,960

itself and because of the people whom

1096

00:38:33,990 --> 00:38:31,599

with i spent all this time there were

1097

00:38:35,349 --> 00:38:34,000

two people who work at nasa johnson

1098

00:38:37,109 --> 00:38:35,359

space center and they're both

1099

00:38:39,829 --> 00:38:37,119

professionals within their field one of

1100

00:38:40,790 --> 00:38:39,839

them is an expert in spacesuits and the

1101

00:38:43,109 --> 00:38:40,800

other one is an expert in

1102

00:38:45,349 --> 00:38:43,119

countermeasures which means how you can

1103

00:38:47,190 --> 00:38:45,359

do exercises to offset

1104

00:38:48,630 --> 00:38:47,200

the typical type of bone loss and

1105

00:38:51,589 --> 00:38:48,640

muscular loss that you would experience

1106

00:38:53,589 --> 00:38:51,599

in microgravity or even i guess

1107

00:38:55,750 --> 00:38:53,599

living in a habitat where you can't

1108

00:38:57,270 --> 00:38:55,760

spend a lot of time outside or traveling

1109

00:38:58,710 --> 00:38:57,280

distances in order to get regular

1110

00:39:00,150 --> 00:38:58,720

exercise

1111

00:39:01,990 --> 00:39:00,160

and there was also geologists there and

1112

00:39:04,630 --> 00:39:02,000

she told me taught me a lot about how to

1113

00:39:06,550 --> 00:39:04,640

find faults and uh different types of

1114

00:39:08,150 --> 00:39:06,560

rock formations and

1115

00:39:09,190 --> 00:39:08,160

it was very much an educational

1116

00:39:11,030 --> 00:39:09,200

experience for me for a variety of

1117

00:39:12,550 --> 00:39:11,040

reasons but of course then i got a

1118

00:39:15,349 --> 00:39:12,560

little bit of a taste for what it would

1119

00:39:17,670 --> 00:39:15,359

be like to live in a confined habitat

1120

00:39:20,230 --> 00:39:17,680

and isolation in an area where

1121

00:39:22,550 --> 00:39:20,240

everything is just rock and there's no

1122

00:39:24,310 --> 00:39:22,560

plants around you or water

1123

00:39:26,710 --> 00:39:24,320

and when you go outside you can't really

1124

00:39:29,030 --> 00:39:26,720

interact with your environment

1125

00:39:31,190 --> 00:39:29,040

i was doing some research there well

1126

00:39:33,510 --> 00:39:31,200

more logistical experiments to

1127

00:39:35,589 --> 00:39:33,520

understand

1128

00:39:37,829 --> 00:39:35,599

what i would need to do if i were to

1129

00:39:40,710 --> 00:39:37,839

come back and do like a blind crossover

1130

00:39:45,190 --> 00:39:42,630

and a part of that what i had to do was

1131

00:39:47,670 --> 00:39:45,200

go out and do some some evas or

1132

00:39:50,069 --> 00:39:47,680

extravehicular activities and i had a

1133

00:39:52,550 --> 00:39:50,079

heart rate monitor on and accelerometers

1134

00:39:53,670 --> 00:39:52,560

and i would test my blood glucose and

1135

00:39:55,190 --> 00:39:53,680

ketones

1136

00:39:56,790 --> 00:39:55,200

before and after these evas and then

1137

00:39:59,589 --> 00:39:56,800

when i returned i would do a series of

1138

00:40:01,349 --> 00:39:59,599

cognitive tests and so forth and

1139

00:40:02,950 --> 00:40:01,359

what it ended up doing was exploring a

1140

00:40:05,270 --> 00:40:02,960

lot of the terrain around me and at the

1141

00:40:08,390 --> 00:40:05,280

same time setting up some standardized

1142

00:40:09,670 --> 00:40:08,400

evas that i can then use later on to

1143

00:40:11,589 --> 00:40:09,680

test a variety of other things like

1144

00:40:14,630 --> 00:40:11,599

compounds that would then offset the

1145

00:40:17,589 --> 00:40:14,640

cognitive and muscular fatigue that that

1146

00:40:19,510 --> 00:40:17,599

ensues after a strenuous eva on the

1147

00:40:20,550 --> 00:40:19,520

third eva so this was after about 10

1148

00:40:21,829 --> 00:40:20,560

days

1149

00:40:25,109 --> 00:40:21,839

i had been there

1150

00:40:26,950 --> 00:40:25,119

i actually stumbled upon water um

1151

00:40:27,750 --> 00:40:26,960

which was rather rather surprising i

1152

00:40:29,990 --> 00:40:27,760

mean

1153

00:40:32,710 --> 00:40:30,000

sea surface water on mars would be very

1154

00:40:34,950 --> 00:40:32,720

astounding of course

1155

00:40:37,670 --> 00:40:34,960

but to see it even at this high plateau

1156

00:40:39,190 --> 00:40:37,680

desert in utah was was rather rather

1157

00:40:40,150 --> 00:40:39,200

amazing

1158

00:40:41,910 --> 00:40:40,160

um

1159

00:40:43,829 --> 00:40:41,920

and i found it there and

1160

00:40:45,270 --> 00:40:43,839

and it was just so exciting to see this

1161

00:40:46,790 --> 00:40:45,280

you know liquid moving water it was only

1162

00:40:48,870 --> 00:40:46,800

a small brown puddle

1163

00:40:51,270 --> 00:40:48,880

but it was it was definitely water

1164

00:40:53,430 --> 00:40:51,280

nonetheless and i wanted to touch it but

1165

00:40:54,710 --> 00:40:53,440

i couldn't touch it because i'm in a

1166

00:40:56,390 --> 00:40:54,720

spacesuit and you don't have that

1167

00:40:57,990 --> 00:40:56,400

ability to interact with

1168

00:40:59,990 --> 00:40:58,000

with your environment and in the way

1169

00:41:02,550 --> 00:41:00,000

that we can on earth we can feel things

1170

00:41:04,309 --> 00:41:02,560

and the wind goes by we can smell

1171

00:41:05,430 --> 00:41:04,319

um and that's definitely something which

1172

00:41:09,430 --> 00:41:05,440

is

1173

00:41:11,510 --> 00:41:09,440

home into me but you know by that

1174

00:41:13,190 --> 00:41:11,520

experience and that was that was really

1175

00:41:14,790 --> 00:41:13,200

important i think

1176

00:41:16,710 --> 00:41:14,800

that's a fascinating thing that you

1177

00:41:18,790 --> 00:41:16,720

bring up that when you go to mars or the

1178

00:41:20,309 --> 00:41:18,800

first people go to mars that will be

1179

00:41:22,550 --> 00:41:20,319

absolutely right there'll be no such

1180

00:41:24,150 --> 00:41:22,560

thing as in direct interaction with the

1181

00:41:26,230 --> 00:41:24,160

the martian environment it'll all be

1182

00:41:29,190 --> 00:41:26,240

done through via uh

1183

00:41:30,950 --> 00:41:29,200

wearing suits i imagine though that from

1184

00:41:32,950 --> 00:41:30,960

time to time samples from the outside

1185

00:41:34,390 --> 00:41:32,960

will be brought inside and then

1186

00:41:36,230 --> 00:41:34,400

people be able to physically put their

1187

00:41:37,349 --> 00:41:36,240

hands on things but from what i

1188

00:41:38,790 --> 00:41:37,359

understand

1189

00:41:41,109 --> 00:41:38,800

what i've

1190

00:41:43,190 --> 00:41:41,119

gleaned from various reports about mars

1191

00:41:44,870 --> 00:41:43,200

i think one of the biggest problems and

1192

00:41:47,589 --> 00:41:44,880

you may know something about this uh

1193

00:41:50,470 --> 00:41:47,599

they're anticipating is the ultrafine

1194

00:41:53,589 --> 00:41:51,349

yeah

1195

00:41:54,790 --> 00:41:53,599

in the simulation site um there's

1196

00:41:56,230 --> 00:41:54,800

actually a lot of

1197

00:41:57,829 --> 00:41:56,240

fine dust

1198

00:41:59,670 --> 00:41:57,839

um

1199

00:42:01,589 --> 00:41:59,680

that got into the hab and got on our

1200

00:42:05,190 --> 00:42:01,599

suits and got over everything

1201  
00:42:06,950 --> 00:42:05,200  
but i don't think it even compares

1202  
00:42:08,790 --> 00:42:06,960  
in the slightest way to the type of fine

1203  
00:42:10,710 --> 00:42:08,800  
dust that they have on mars i was

1204  
00:42:13,589 --> 00:42:10,720  
speaking to norbert craft who's the

1205  
00:42:15,030 --> 00:42:13,599  
chief medical officer for mars one

1206  
00:42:16,470 --> 00:42:15,040  
and

1207  
00:42:18,710 --> 00:42:16,480  
he was saying to me that it's more like

1208  
00:42:20,309 --> 00:42:18,720  
a smoke than it is

1209  
00:42:23,589 --> 00:42:20,319  
like a sand

1210  
00:42:25,589 --> 00:42:23,599  
um it's so fine that in a relatively

1211  
00:42:27,270 --> 00:42:25,599  
dense atmosphere like we have on earth

1212  
00:42:28,470 --> 00:42:27,280  
it would float around like cigarette

1213  
00:42:29,910 --> 00:42:28,480

smoke

1214

00:42:30,950 --> 00:42:29,920

but on mars it settles down to the

1215

00:42:33,190 --> 00:42:30,960

ground because

1216

00:42:34,790 --> 00:42:33,200

the air is so thin

1217

00:42:36,710 --> 00:42:34,800

this is

1218

00:42:39,190 --> 00:42:36,720

you know a pretty interesting concept

1219

00:42:41,109 --> 00:42:39,200

and it will be everywhere and we won't

1220

00:42:42,950 --> 00:42:41,119

be able to to prevent it from getting

1221

00:42:46,470 --> 00:42:42,960

inside of the hab so let's hope it's not

1222

00:42:50,150 --> 00:42:48,390

i just hope for your sake that's true

1223

00:42:52,550 --> 00:42:50,160

but if it does get inside the habitat

1224

00:42:56,390 --> 00:42:52,560

the habitat is going to be of course uh

1225

00:42:58,790 --> 00:42:56,400

pressurized to more or less earth uh

1226  
00:43:00,790 --> 00:42:58,800  
well sea level or i'm i'm not sure maybe

1227  
00:43:02,470 --> 00:43:00,800  
you can uh fill us in so maybe that

1228  
00:43:04,150 --> 00:43:02,480  
could uh

1229  
00:43:05,910 --> 00:43:04,160  
help with the dust

1230  
00:43:07,589 --> 00:43:05,920  
well it probably won't be pressurized

1231  
00:43:09,349 --> 00:43:07,599  
all the way to sea level that's not

1232  
00:43:11,910 --> 00:43:09,359  
really necessary but it'll probably be

1233  
00:43:12,870 --> 00:43:11,920  
about 60 percent of uh sea level

1234  
00:43:14,790 --> 00:43:12,880  
pressure

1235  
00:43:17,109 --> 00:43:14,800  
i imagine something around that

1236  
00:43:19,510 --> 00:43:17,119  
and then of course it'll also be filters

1237  
00:43:21,910 --> 00:43:19,520  
will continually be scavenging the air

1238  
00:43:24,230 --> 00:43:21,920

anyway for carbon dioxide

1239

00:43:25,349 --> 00:43:24,240

and and replenishing it with oxygen all

1240

00:43:26,550 --> 00:43:25,359

the time

1241

00:43:28,630 --> 00:43:26,560

so at the same time we'll be able to

1242

00:43:30,390 --> 00:43:28,640

filter out quite a bit of the dust but

1243

00:43:31,349 --> 00:43:30,400

it will get inside that's that's that's

1244

00:43:33,190 --> 00:43:31,359

for sure

1245

00:43:34,710 --> 00:43:33,200

so that's interesting i it's something i

1246

00:43:36,230 --> 00:43:34,720

didn't i only thought about when i asked

1247

00:43:38,390 --> 00:43:36,240

you the question the habitat will be

1248

00:43:39,670 --> 00:43:38,400

pressurized to make it habitable for

1249

00:43:41,349 --> 00:43:39,680

humans of course and you you're

1250

00:43:43,349 --> 00:43:41,359

suggesting something around sixty

1251

00:43:45,750 --> 00:43:43,359

percent of uh

1252

00:43:48,150 --> 00:43:45,760

what i'm experienced now experiencing

1253

00:43:49,910 --> 00:43:48,160

now here at sea level what what does

1254

00:43:51,910 --> 00:43:49,920

that equate to would that be like living

1255

00:43:52,950 --> 00:43:51,920

in somewhere like denver or even higher

1256

00:43:54,790 --> 00:43:52,960

up

1257

00:43:57,670 --> 00:43:54,800

i'm not sure what that means

1258

00:44:00,069 --> 00:43:57,680

i think 5000 meters is about 50

1259

00:44:02,470 --> 00:44:00,079

so this is probably around 4000 meters i

1260

00:44:03,829 --> 00:44:02,480

mean about that

1261

00:44:05,349 --> 00:44:03,839

okay so so

1262

00:44:07,829 --> 00:44:05,359

completely and

1263

00:44:09,270 --> 00:44:07,839

acceptable for human existence for oh

1264

00:44:11,990 --> 00:44:09,280

yeah i mean period that's like that's

1265

00:44:13,990 --> 00:44:12,000

like uh the peaks of many of the

1266

00:44:16,630 --> 00:44:14,000

of the mountains and switzerland where i

1267

00:44:18,470 --> 00:44:16,640

ski so

1268

00:44:20,710 --> 00:44:18,480

well you can say goodbye to skiing if

1269

00:44:22,309 --> 00:44:20,720

you go to mars

1270

00:44:24,470 --> 00:44:22,319

i'll be saying goodbye to a lot of

1271

00:44:26,870 --> 00:44:24,480

things richard yeah if you will be

1272

00:44:28,630 --> 00:44:26,880

indeed so where do you think the uh the

1273

00:44:30,309 --> 00:44:28,640

base the martian base is going to be

1274

00:44:31,670 --> 00:44:30,319

located on mars is it going to be near

1275

00:44:33,510 --> 00:44:31,680

the equator is it going to be near one

1276

00:44:36,550 --> 00:44:33,520

of the poles

1277

00:44:38,309 --> 00:44:36,560

that's for sure it'd be way too cold for

1278

00:44:41,109 --> 00:44:38,319

that and you also don't get too much

1279

00:44:41,990 --> 00:44:41,119

sunlight down there or up there

1280

00:44:43,349 --> 00:44:42,000

um

1281

00:44:45,750 --> 00:44:43,359

but it won't be right on the equator

1282

00:44:48,950 --> 00:44:45,760

either it'll be slightly north of the

1283

00:44:50,710 --> 00:44:48,960

equator maybe 10 20 degrees north um the

1284

00:44:52,309 --> 00:44:50,720

exact position

1285

00:44:54,150 --> 00:44:52,319

you know within that region of course

1286

00:44:56,309 --> 00:44:54,160

isn't uh isn't really understood just

1287

00:44:57,750 --> 00:44:56,319

yet but um

1288

00:44:59,270 --> 00:44:57,760

the reason why they want to choose a

1289

00:45:01,270 --> 00:44:59,280

location like that is because the

1290

00:45:03,109 --> 00:45:01,280

northern hemisphere is much more moist

1291

00:45:04,790 --> 00:45:03,119

as in you can find a lot more water

1292

00:45:06,069 --> 00:45:04,800

contained in the soil there

1293

00:45:08,230 --> 00:45:06,079

but you also want to be relatively close

1294

00:45:10,150 --> 00:45:08,240

to the equator to make things as warm as

1295

00:45:12,390 --> 00:45:10,160

possible and to give yourself you know

1296

00:45:13,750 --> 00:45:12,400

lots of access to sunlight all year

1297

00:45:17,109 --> 00:45:13,760

round

1298

00:45:19,510 --> 00:45:17,119

okay that makes perfect sense to me well

1299

00:45:21,910 --> 00:45:19,520

bash i'm again i'm

1300

00:45:23,910 --> 00:45:21,920

i can't tell you how envious i am uh

1301

00:45:26,150 --> 00:45:23,920

that you're at uh the film festival in

1302

00:45:28,870 --> 00:45:26,160

olomots it's a wonderful festival i had

1303

00:45:31,430 --> 00:45:28,880

such a good time last year with so many

1304

00:45:34,230 --> 00:45:31,440

documentaries that you and i both viewed

1305

00:45:36,710 --> 00:45:34,240

last year it was just fantastic uh who

1306

00:45:38,550 --> 00:45:36,720

knows maybe i i can be there one day

1307

00:45:40,150 --> 00:45:38,560

again it's certainly a lot easier to

1308

00:45:42,390 --> 00:45:40,160

visit you there than it would be on mars

1309

00:45:45,109 --> 00:45:42,400

i think

1310

00:45:48,870 --> 00:45:46,710

although you know i wouldn't rule that

1311

00:45:50,630 --> 00:45:48,880

out if someone was kind enough to donate

1312

00:45:52,550 --> 00:45:50,640

a round trip to mars i'd certainly

1313

00:45:55,750 --> 00:45:52,560

consider taking it

1314

00:45:58,069 --> 00:45:55,760

you know um richard

1315

00:46:02,550 --> 00:45:58,079

um

1316

00:46:04,870 --> 00:46:02,560

the chapel remember the the room that we

1317

00:46:06,309 --> 00:46:04,880

did last year in the chapel yes you gave

1318

00:46:08,390 --> 00:46:06,319

a talk to chapel and then i gave him one

1319

00:46:09,910 --> 00:46:08,400

later with with andrew

1320

00:46:11,109 --> 00:46:09,920

um

1321

00:46:12,710 --> 00:46:11,119

so this year they booked me into the

1322

00:46:15,190 --> 00:46:12,720

chapter chapel

1323

00:46:16,550 --> 00:46:15,200

matiere wrote like a very enticing

1324

00:46:18,950 --> 00:46:16,560

description

1325

00:46:20,230 --> 00:46:18,960

for for people to come in

1326  
00:46:21,670 --> 00:46:20,240  
and put me first in the book so that a

1327  
00:46:24,470 --> 00:46:21,680  
lot of people saw it

1328  
00:46:25,990 --> 00:46:24,480  
and the chapel completely packed out

1329  
00:46:29,349 --> 00:46:26,000  
and there was more people standing there

1330  
00:46:32,630 --> 00:46:29,359  
sitting wow and i was in there and i

1331  
00:46:35,349 --> 00:46:32,640  
i really like to engage people

1332  
00:46:37,030 --> 00:46:35,359  
in science by letting them be

1333  
00:46:38,710 --> 00:46:37,040  
the drivers of the discussion because

1334  
00:46:39,829 --> 00:46:38,720  
when somebody asks a question it's

1335  
00:46:41,990 --> 00:46:39,839  
because they're curious and when

1336  
00:46:43,670 --> 00:46:42,000  
somebody's curious they remember the

1337  
00:46:45,589 --> 00:46:43,680  
answer

1338  
00:46:47,510 --> 00:46:45,599

and so i gave like i showed a few

1339

00:46:49,910 --> 00:46:47,520

pictures from the simulation site and i

1340

00:46:52,069 --> 00:46:49,920

showed them a nice diagram that i had

1341

00:46:54,630 --> 00:46:52,079

made to explain you know how we get from

1342

00:46:56,230 --> 00:46:54,640

earth to mars and the physics of it and

1343

00:46:57,589 --> 00:46:56,240

then i just opened up the floor for

1344

00:46:59,270 --> 00:46:57,599

discussions

1345

00:47:03,829 --> 00:46:59,280

and

1346

00:47:05,910 --> 00:47:03,839

straight people just asking questions

1347

00:47:07,589 --> 00:47:05,920

all the time and one person who kept

1348

00:47:09,430 --> 00:47:07,599

asking questions was this little boy

1349

00:47:11,349 --> 00:47:09,440

named seven years old who was seven

1350

00:47:13,510 --> 00:47:11,359

years old eight years old maybe

1351

00:47:15,349 --> 00:47:13,520

uh named dominique and then i've met him

1352

00:47:17,589 --> 00:47:15,359

a few times since then

1353

00:47:20,630 --> 00:47:17,599

and he's absolutely convinced that

1354

00:47:22,630 --> 00:47:20,640

that he wants to go to mars as well now

1355

00:47:25,430 --> 00:47:22,640

and would be very pleased to meet me

1356

00:47:27,030 --> 00:47:25,440

there he said

1357

00:47:28,870 --> 00:47:27,040

and his parents are wonderful people too

1358

00:47:30,550 --> 00:47:28,880

and it was it was really

1359

00:47:31,990 --> 00:47:30,560

i mean this this festival is very

1360

00:47:34,069 --> 00:47:32,000

special in that regard that you really

1361

00:47:36,790 --> 00:47:34,079

have a chance to meet with

1362

00:47:39,030 --> 00:47:36,800

the public and just and talk to people

1363

00:47:40,950 --> 00:47:39,040

and um and you were here last year and

1364

00:47:42,150 --> 00:47:40,960

you know what it's like i mean i

1365

00:47:44,470 --> 00:47:42,160

i couldn't say

1366

00:47:46,790 --> 00:47:44,480

anything negative about affo it's really

1367

00:47:48,710 --> 00:47:46,800

it's really an inspirational place for

1368

00:47:51,430 --> 00:47:48,720

the people who come to see the films for

1369

00:47:53,670 --> 00:47:51,440

the filmmakers and for the for the token

1370

00:47:55,829 --> 00:47:53,680

scientists that show up to to to do

1371

00:47:57,349 --> 00:47:55,839

their part too it's uh

1372

00:47:59,270 --> 00:47:57,359

it's pretty awesome here

1373

00:48:00,710 --> 00:47:59,280

i'd have to agree and on top of that i

1374

00:48:03,670 --> 00:48:00,720

would say that the little city of

1375

00:48:05,430 --> 00:48:03,680

olimoto's is one of the most uh charming

1376

00:48:08,230 --> 00:48:05,440

places i've ever been to in my life with

1377

00:48:11,030 --> 00:48:08,240

the the uh the town square the town

1378

00:48:12,309 --> 00:48:11,040

squares plural i should say and that

1379

00:48:13,990 --> 00:48:12,319

wonderful

1380

00:48:15,910 --> 00:48:14,000

michael's church where you can go right

1381

00:48:18,550 --> 00:48:15,920

up to the belfry and be standing next to

1382

00:48:20,390 --> 00:48:18,560

the huge bells when they go off that's

1383

00:48:21,589 --> 00:48:20,400

that's something special i remember your

1384

00:48:23,589 --> 00:48:21,599

video from that that was brilliantly

1385

00:48:25,030 --> 00:48:23,599

done

1386

00:48:26,870 --> 00:48:25,040

well i tell you what in the show notes

1387

00:48:29,510 --> 00:48:26,880

this week folks i'll link to uh

1388

00:48:31,589 --> 00:48:29,520

information about the festival there in

1389

00:48:33,270 --> 00:48:31,599

olimates i'll link to the the video i

1390

00:48:34,950 --> 00:48:33,280

made about standing next to the ringing

1391

00:48:38,230 --> 00:48:34,960

bells and i'll certainly add more

1392

00:48:40,150 --> 00:48:38,240

information about uh our guest all the

1393

00:48:42,309 --> 00:48:40,160

way from the czech republic

1394

00:48:45,670 --> 00:48:42,319

dr saab well bash

1395

00:48:48,309 --> 00:48:45,680

again uh our continued warm wishes for a

1396

00:48:50,549 --> 00:48:48,319

successful process on your

1397

00:49:17,670 --> 00:48:50,559

hopeful journey to mars

1398

00:49:22,309 --> 00:49:20,069

is an award-winning weekly science show

1399

00:49:23,910 --> 00:49:22,319

in french hosted by a bunch of crazy

1400

00:49:26,390 --> 00:49:23,920

enthusiasts

1401  
00:49:28,710 --> 00:49:26,400  
we are convinced that the greatest ideas

1402  
00:49:30,710 --> 00:49:28,720  
in science are quite easy to grasp as

1403  
00:49:33,349 --> 00:49:30,720  
long as they are presented with passion

1404  
00:49:35,829 --> 00:49:33,359  
using a vocabulary common to all curious

1405  
00:49:37,030 --> 00:49:35,839  
minds whatever their academic background

1406  
00:49:39,109 --> 00:49:37,040  
if any

1407  
00:49:40,470 --> 00:49:39,119  
you don't understand french yet but it's

1408  
00:49:42,069 --> 00:49:40,480  
never too late

1409  
00:49:43,910 --> 00:49:42,079  
all our stories have a written

1410  
00:49:46,069 --> 00:49:43,920  
transcript on the website and people

1411  
00:49:48,710 --> 00:49:46,079  
from all around the world are using our

1412  
00:49:51,270 --> 00:49:48,720  
content to learn malia's language

1413  
00:49:53,950 --> 00:49:51,280

our topics range from zero to infinity

1414

00:49:55,829 --> 00:49:53,960

from evolution to artificial life from

1415

00:49:57,030 --> 00:49:55,839

electromagnetism to the science of

1416

00:49:59,589 --> 00:49:57,040

introverts

1417

00:50:03,190 --> 00:49:59,599

we just love mathematics science

1418

00:50:04,870 --> 00:50:03,200

critical thinking so do you want to join

1419

00:50:06,670 --> 00:50:04,880

you can subscribe to the podcast for

1420

00:50:09,430 --> 00:50:06,680

free from our website

1421

00:50:12,069 --> 00:50:09,440

podcastscience.fm that's in one word you

1422

00:50:14,710 --> 00:50:12,079

also find us on itunes and soundcloud

1423

00:50:34,150 --> 00:50:14,720

see you soon hopefully at the career

1424

00:50:37,589 --> 00:50:35,750

thank you for listening to the skeptic

1425

00:50:39,670 --> 00:50:37,599

zone this week

1426  
00:50:41,349 --> 00:50:39,680  
mars i wonder if there's any chocolate

1427  
00:50:42,790 --> 00:50:41,359  
on mars

1428  
00:50:44,549 --> 00:50:42,800  
first mission they get to mars and they

1429  
00:50:46,069 --> 00:50:44,559  
open up the door there step out on the

1430  
00:50:47,990 --> 00:50:46,079  
martian surface and there are chocolate

1431  
00:50:48,790 --> 00:50:48,000  
easter eggs scattered about for kids to

1432  
00:50:51,270 --> 00:50:48,800  
find

1433  
00:50:53,990 --> 00:50:51,280  
they could be dreaming about tonight

1434  
00:50:56,470 --> 00:50:54,000  
hey look if you're in sydney in november

1435  
00:50:58,150 --> 00:50:56,480  
this year november the 28th 29th and

1436  
00:51:00,549 --> 00:50:58,160  
30th come along to the australian

1437  
00:51:02,630 --> 00:51:00,559  
skeptics national convention our special

1438  
00:51:03,670 --> 00:51:02,640

guests are the skeptic's guide to the

1439

00:51:05,589 --> 00:51:03,680

universe

1440

00:51:07,990 --> 00:51:05,599

george herrera dick smith will be there

1441

00:51:09,990 --> 00:51:08,000

dr karl krzelnski lots of other

1442

00:51:11,750 --> 00:51:10,000

speakers yet to be announced dr rachel

1443

00:51:14,309 --> 00:51:11,760

dunlop of course will be giving a very

1444

00:51:15,430 --> 00:51:14,319

interesting talk as she always does

1445

00:51:19,670 --> 00:51:15,440

tickets

1446

00:51:23,270 --> 00:51:21,430

don't miss out this will be one of the

1447

00:51:25,910 --> 00:51:23,280

biggest conventions skeptical

1448

00:51:28,790 --> 00:51:25,920

conventions held in australia well since

1449

00:51:30,390 --> 00:51:28,800

the amazing meeting in 2010

1450

00:51:33,109 --> 00:51:30,400

and before i go a big thank you of

1451  
00:51:37,349 --> 00:51:33,119  
course as ever to those wonderful people

1452  
00:51:39,430 --> 00:51:37,359  
who kick in contribute chip in tithe

1453  
00:51:42,870 --> 00:51:39,440  
no that's the wrong word

1454  
00:51:45,829 --> 00:51:42,880  
help out the skeptic zone by uh

1455  
00:51:47,910 --> 00:51:45,839  
donating less than a dollar a week 99

1456  
00:51:49,670 --> 00:51:47,920  
cents a week i think it is or something

1457  
00:51:52,150 --> 00:51:49,680  
ridiculous like that

1458  
00:51:55,430 --> 00:51:52,160  
less than a cup of coffee as they say

1459  
00:51:59,109 --> 00:51:55,440  
uh via paypal at skepticzone.tv

1460  
00:52:00,790 --> 00:51:59,119  
um your contribution collectively

1461  
00:52:03,190 --> 00:52:00,800  
means the show keeps going it's as

1462  
00:52:05,990 --> 00:52:03,200  
simple as that and a big shout out to

1463  
00:52:07,990 --> 00:52:06,000

maynard yes our wonderful friend maynard

1464

00:52:10,309 --> 00:52:08,000

a couple of weeks ago i went to what

1465

00:52:12,790 --> 00:52:10,319

they call the mad club reunion which was

1466

00:52:16,230 --> 00:52:12,800

a great afternoon in a record bar in

1467

00:52:18,230 --> 00:52:16,240

sydney upstairs uh music and silly

1468

00:52:19,910 --> 00:52:18,240

antics going on maynard carrying on it

1469

00:52:21,750 --> 00:52:19,920

was was terrific fun

1470

00:52:22,870 --> 00:52:21,760

and i'll add a link to the show notes

1471

00:52:24,390 --> 00:52:22,880

where you can

1472

00:52:28,630 --> 00:52:24,400

listen for yourself and see some

1473

00:52:30,790 --> 00:52:28,640

photographs from mad club with maynard

1474

00:52:33,750 --> 00:52:30,800

but for now for oh before i go before i

1475

00:52:36,390 --> 00:52:33,760

go a couple of days ago i went to the

1476  
00:52:39,030 --> 00:52:36,400  
royal easter show here in sydney the big

1477  
00:52:41,589 --> 00:52:39,040  
country fair so to speak but it's huge

1478  
00:52:43,829 --> 00:52:41,599  
it's massive that's it's a huge show of

1479  
00:52:45,030 --> 00:52:43,839  
carnival rides and exhibitions and and

1480  
00:52:47,030 --> 00:52:45,040  
all sorts of things

1481  
00:52:50,470 --> 00:52:47,040  
i came across the little stand a little

1482  
00:52:51,910 --> 00:52:50,480  
stall little booth of singing bowls

1483  
00:52:53,829 --> 00:52:51,920  
people selling singing bowls which are

1484  
00:52:55,589 --> 00:52:53,839  
metallic bowls and you

1485  
00:52:58,309 --> 00:52:55,599  
you

1486  
00:52:59,910 --> 00:52:58,319  
sort of run around the rim with a little

1487  
00:53:02,069 --> 00:52:59,920  
tong or something and they make

1488  
00:53:03,190 --> 00:53:02,079

wonderful vibrations and they sound

1489

00:53:05,349 --> 00:53:03,200

really great

1490

00:53:07,030 --> 00:53:05,359

but one of their claims

1491

00:53:09,510 --> 00:53:07,040

written on their wall is that these

1492

00:53:11,270 --> 00:53:09,520

singing bowls will cleanse food and

1493

00:53:13,750 --> 00:53:11,280

water

1494

00:53:15,829 --> 00:53:13,760

needless to say i had a chat with the uh

1495

00:53:17,990 --> 00:53:15,839

the people that stand there they didn't

1496

00:53:19,670 --> 00:53:18,000

quite understand when i said well what

1497

00:53:21,510 --> 00:53:19,680

do they cleanse how do they cleanse they

1498

00:53:23,430 --> 00:53:21,520

kill bacteria

1499

00:53:25,589 --> 00:53:23,440

they were very confused part of the

1500

00:53:27,670 --> 00:53:25,599

thing is of course that these people

1501

00:53:30,549 --> 00:53:27,680

simply aren't used to uh

1502

00:53:32,309 --> 00:53:30,559

having people ask them questions

1503

00:53:34,150 --> 00:53:32,319

cleanse food and water well of course

1504

00:53:36,150 --> 00:53:34,160

these balls can't cleanse food they

1505

00:53:38,150 --> 00:53:36,160

can't make them clean they can't kill

1506

00:53:39,910 --> 00:53:38,160

bacteria and so on and so forth if

1507

00:53:41,270 --> 00:53:39,920

you're going to the royal easter show in

1508

00:53:43,190 --> 00:53:41,280

sydney

1509

00:53:44,309 --> 00:53:43,200

and you come across the stand of singing

1510

00:53:50,549 --> 00:53:44,319

bowls

1511

00:53:52,390 --> 00:53:50,559

actually cleanse food and water you know

1512

00:53:54,829 --> 00:53:52,400

what we might get them to change that

1513

00:53:57,510 --> 00:53:54,839

claim it's a bit misleading i

1514

00:53:59,829 --> 00:53:57,520

think rant over

1515

00:54:02,309 --> 00:53:59,839

so for this week this is richard

1516

00:54:07,270 --> 00:54:02,319

saunders signing off from sydney

1517

00:54:10,470 --> 00:54:08,870

you've been listening to the skeptic

1518

00:54:15,270 --> 00:54:10,480

zone