

The Skeptic Zone
Show 281 - 9 March 2014



Dr Besh Saab

1
00:00:00,000 --> 00:00:05,980

[Music]

2
00:00:11,840 --> 00:00:09,100

welcome to the skeptic zone the podcast

3
00:00:23,030 --> 00:00:11,850

from Australia for science and reason

4
00:00:25,680 --> 00:00:23,040

[Music]

5
00:00:30,890 --> 00:00:25,690

hello and welcome to the skeptic zone

6
00:00:33,300 --> 00:00:30,900

episode 281 for the ninth of March 2014

7
00:00:35,610 --> 00:00:33,310

Richard Saunders coming to you today

8
00:00:39,150 --> 00:00:35,620

from the Royal Botanical Gardens in

9
00:00:41,970 --> 00:00:39,160

Sydney what a lovely day to be wandering

10
00:00:44,280 --> 00:00:41,980

around the gardens the Sun is getting a

11
00:00:48,630 --> 00:00:44,290

little bit low over there towards the

12
00:00:50,640 --> 00:00:48,640

horizon where else people are wondering

13
00:00:53,430 --> 00:00:50,650

about the birds are singing that's a

14

00:00:56,869 --> 00:00:53,440

pretty nice day coming up on this week's

15

00:01:00,210 --> 00:00:56,879

show we catch up with dr. besh saab the

16

00:01:01,619 --> 00:01:00,220

man who is trying to go to Mars he's a

17

00:01:05,100 --> 00:01:01,629

good friend of mine I met him about a

18

00:01:09,899 --> 00:01:05,110

year ago when we attended a conference

19

00:01:12,860 --> 00:01:09,909

in the Czech Republic Besh is soon to

20

00:01:15,210 --> 00:01:12,870

enter a lock-up situation as it were a

21

00:01:20,600 --> 00:01:15,220

simulation of what it will be like to

22

00:01:22,740 --> 00:01:20,610

live on Mars as a plane assumes overhead

23

00:01:26,639 --> 00:01:22,750

they shall tell us all about that

24

00:01:31,139 --> 00:01:26,649

including how you can ask him a question

25

00:01:33,709 --> 00:01:31,149

mine is in his lock up is there life on

26

00:01:35,940 --> 00:01:33,719

Mars well hopefully soon there will be

27

00:01:36,870 --> 00:01:35,950

after that it's a week in science from

28

00:01:41,310 --> 00:01:36,880

our good friends at the Royal

29

00:01:44,850 --> 00:01:41,320

Institution of Australia www RI aus ok

30

00:01:47,160 --> 00:01:44,860

you and then it's the return of maynard

31

00:01:49,520 --> 00:01:47,170

spooky action and what an interesting

32

00:01:52,170 --> 00:01:49,530

Maynard we have to you this week

33

00:01:54,330 --> 00:01:52,180

maynard's cat went in for an operation

34

00:01:58,319 --> 00:01:54,340

now Maynard's cat tinkerbelle is 19 years

35

00:01:59,819 --> 00:01:58,329

old 19 years old Maynard followed his

36

00:02:02,490 --> 00:01:59,829

cat into the operating theatre and

37

00:02:06,539 --> 00:02:02,500

interviewed the vet and the nurse during

38

00:02:09,450 --> 00:02:06,549

the operation Wow may not really comes

39

00:02:11,570 --> 00:02:09,460

up with the unusual reports this is your

40

00:02:15,180 --> 00:02:11,580

chance to be a fly on the wall for

41

00:02:16,860 --> 00:02:15,190

Tinker Bell's operation then to round

42

00:02:19,440 --> 00:02:16,870

off the show it's a report from skeptics

43

00:02:21,570 --> 00:02:19,450

in the pub in Sydney where we ask the

44

00:02:24,030 --> 00:02:21,580

big questions and the question we ask

45

00:02:25,830 --> 00:02:24,040

this week is when the Australian

46

00:02:28,110 --> 00:02:25,840

vaccination Network changed their name

47

00:02:30,960 --> 00:02:28,120

which they are required to do what

48

00:02:32,460 --> 00:02:30,970

should they change it to what would be a

49

00:02:33,870 --> 00:02:32,470

better name for the Australian

50

00:02:36,480 --> 00:02:33,880

vaccination network

51
00:02:39,570 --> 00:02:36,490
I think you can guess that's coming up

52
00:02:42,000 --> 00:02:39,580
at the end of the show now during the

53
00:02:44,580 --> 00:02:42,010
course of the show during a break in one

54
00:02:47,040 --> 00:02:44,590
of the stories we're going to come up

55
00:02:49,920 --> 00:02:47,050
with a random number to get the winners

56
00:02:52,770 --> 00:02:49,930
for our cosmos giveaway competition so

57
00:02:55,430 --> 00:02:52,780
one lucky listener in Australia or win a

58
00:02:58,710 --> 00:02:55,440
cosmos pack and one lucky listener

59
00:03:00,570 --> 00:02:58,720
internationally that includes the

60
00:03:03,990 --> 00:03:00,580
autographed copy of the cosmos book

61
00:03:08,010 --> 00:03:04,000
signed by dr. Neil deGrasse Tyson and an

62
00:03:10,440 --> 00:03:08,020
der n but now it's time for me to keep

63
00:03:14,490 --> 00:03:10,450

sitting on this bench in fact enjoying a

64

00:03:15,770 --> 00:03:14,500

nice lazy afternoon why you enjoy the

65

00:03:32,290 --> 00:03:15,780

skeptic zone

66

00:03:32,300 --> 00:03:39,240

No

67

00:03:39,250 --> 00:03:49,309

is there life on Mars

68

00:03:53,239 --> 00:03:51,319

joining me now all the way from a

69

00:03:55,819 --> 00:03:53,249

wonderful part of the world Zurich in

70

00:03:57,619 --> 00:03:55,829

Switzerland where it's nighttime here

71

00:04:01,129 --> 00:03:57,629

it's daytime I can see the sun shining

72

00:04:03,709 --> 00:04:01,139

down but where my friend best job is

73

00:04:05,720 --> 00:04:03,719

it's nighttime he's looking up at the

74

00:04:07,670 --> 00:04:05,730

moon he's looking up at Jupiter and more

75

00:04:10,789 --> 00:04:07,680

importantly he's looking up at Mars

76

00:04:12,920 --> 00:04:10,799

hello bash i Richard how are you I'm

77

00:04:15,170 --> 00:04:12,930

doing really well that's true you're

78

00:04:17,900 --> 00:04:15,180

actually sitting or standing in a park

79

00:04:20,120 --> 00:04:17,910

in Switzerland in Zurich looking up at

80

00:04:22,099 --> 00:04:20,130

Mars mm-hmm I love it when Mars comes

81

00:04:23,810 --> 00:04:22,109

comes close to Earth and you can see it

82

00:04:26,210 --> 00:04:23,820

bright red on this guy it's really cool

83

00:04:28,580 --> 00:04:26,220

it's very appropriate actually because

84

00:04:32,360 --> 00:04:28,590

that's where you're hoping to head but

85

00:04:36,200 --> 00:04:32,370

before you get to the real Mars itself

86

00:04:37,520 --> 00:04:36,210

and explore Mars you're you're doing

87

00:04:39,439 --> 00:04:37,530

something quite interesting you're going

88

00:04:43,670 --> 00:04:39,449

into a sort of a simulation environment

89

00:04:46,670 --> 00:04:43,680

to see what it's like to lock yourself

90

00:04:48,950 --> 00:04:46,680

away for a while and well be on another

91

00:04:51,560 --> 00:04:48,960

planet can you tell us about that you

92

00:04:53,960 --> 00:04:51,570

know what I suspect is the personal

93

00:04:56,770 --> 00:04:53,970

curiosity of what it's like to be locked

94

00:05:00,050 --> 00:04:56,780

away and a half module them have a

95

00:05:01,520 --> 00:05:00,060

dissociation from earthly things but

96

00:05:04,129 --> 00:05:01,530

another part of it is just to undertake

97

00:05:07,089 --> 00:05:04,139

some research that will facilitate the

98

00:05:09,890 --> 00:05:07,099

exploration and settlement of ours and

99

00:05:13,370 --> 00:05:09,900

so I'm going there with another five

100

00:05:16,909 --> 00:05:13,380

individuals whom are all strangers at

101
00:05:20,120 --> 00:05:16,919
this point in time to me and we will

102
00:05:24,020 --> 00:05:20,130
just live inside this tuna can of a

103
00:05:27,170 --> 00:05:24,030
house and go outside from maximum time

104
00:05:31,010 --> 00:05:27,180
of four hours every other day or so with

105
00:05:32,839 --> 00:05:31,020
Mars suit on and it's you know we do

106
00:05:35,810 --> 00:05:32,849
everything we can to make it seem like

107
00:05:38,029 --> 00:05:35,820
we're actually on the planet Mars itself

108
00:05:41,120 --> 00:05:38,039
and where is that located this

109
00:05:43,610 --> 00:05:41,130
interesting experiment it's in southern

110
00:05:47,540 --> 00:05:43,620
Utah and a relatively high altitude

111
00:05:53,029 --> 00:05:47,550
desert which happens to be colored red

112
00:05:56,149 --> 00:05:53,039
and so it really has a Mars like look to

113
00:05:58,120 --> 00:05:56,159

it and when you if you take you take the

114

00:06:01,790 --> 00:05:58,130

time to type in Mars desert Research

115

00:06:02,670 --> 00:06:01,800

Station into google maps you'll really

116

00:06:05,189 --> 00:06:02,680

see how

117

00:06:07,830 --> 00:06:05,199

mars like it is and it's in the middle

118

00:06:10,170 --> 00:06:07,840

of nowhere and it should be should be

119

00:06:13,520 --> 00:06:10,180

rather interesting and how long will you

120

00:06:16,950 --> 00:06:13,530

be well for all intent purposes on Mars

121

00:06:19,650 --> 00:06:16,960

this is a two-week analog mission that

122

00:06:21,300 --> 00:06:19,660

should give you a taste I guess a flavor

123

00:06:24,570 --> 00:06:21,310

for what it's like to be with a group of

124

00:06:26,909 --> 00:06:24,580

people and and carrying on like that new

125

00:06:28,890 --> 00:06:26,919

telling me earlier that you're going to

126
00:06:31,830 --> 00:06:28,900
try and really simulate being on Mars by

127
00:06:35,010 --> 00:06:31,840
being in a sort of a time bubble you'll

128
00:06:37,469 --> 00:06:35,020
be on delay so to speak that's correct

129
00:06:40,560 --> 00:06:37,479
i'll communications back to earth will

130
00:06:43,680 --> 00:06:40,570
be delayed by at least five minutes each

131
00:06:45,240 --> 00:06:43,690
way and probably we're going to do 20

132
00:06:47,310 --> 00:06:45,250
minutes cuz that would simulate the

133
00:06:49,110 --> 00:06:47,320
worst case scenario on Mars at present

134
00:06:50,460 --> 00:06:49,120
with the current distance between Mars

135
00:06:53,100 --> 00:06:50,470
and Earth a delay would only be about

136
00:06:55,350 --> 00:06:53,110
five or seven minutes or something but

137
00:06:58,230 --> 00:06:55,360
we want to know what it's really like to

138
00:07:00,480 --> 00:06:58,240

have that like a what is essentially a

139

00:07:01,770 --> 00:07:00,490

40-minute leg between will you send a

140

00:07:03,629 --> 00:07:01,780

question when you get an answer

141

00:07:06,839 --> 00:07:03,639

sometimes those answers are are

142

00:07:09,180 --> 00:07:06,849

important yeah that's what do I do now

143

00:07:12,089 --> 00:07:09,190

is you have to wait in 40 minutes for

144

00:07:15,779 --> 00:07:12,099

your answer yes but that's exactly what

145

00:07:18,360 --> 00:07:15,789

the the people on Mars and hopefully

146

00:07:19,830 --> 00:07:18,370

you'll be one of them that's what you'll

147

00:07:21,810 --> 00:07:19,840

have to deal with if you have to

148

00:07:23,670 --> 00:07:21,820

communicate with earth sometimes it's

149

00:07:27,240 --> 00:07:23,680

just going to be a long telephone call

150

00:07:30,149 --> 00:07:27,250

yep and I think they really want to set

151
00:07:33,540 --> 00:07:30,159
up crews were highly independent can

152
00:07:35,430 --> 00:07:33,550
think creatively and and we'll be able

153
00:07:37,320 --> 00:07:35,440
to just carry things out more or less on

154
00:07:39,560 --> 00:07:37,330
their own and who are used to doing that

155
00:07:41,790 --> 00:07:39,570
it's it's quite a different setting than

156
00:07:43,860 --> 00:07:41,800
what's experienced on the International

157
00:07:49,320 --> 00:07:43,870
Space Station for example where orders

158
00:07:50,969 --> 00:07:49,330
are direct within on an hourly basis and

159
00:07:54,570 --> 00:07:50,979
so that's that's that there is a

160
00:07:57,870 --> 00:07:54,580
different aspect in terms of how the

161
00:07:59,909 --> 00:07:57,880
mission is carried out right now the

162
00:08:01,860 --> 00:07:59,919
last time the last time we spoke to you

163
00:08:03,930 --> 00:08:01,870

of it you were telling us telling our

164

00:08:07,110 --> 00:08:03,940

audience about the fact that your

165

00:08:09,390 --> 00:08:07,120

applied to be one of them very few

166

00:08:11,129 --> 00:08:09,400

people who will initially go off to Mars

167

00:08:12,779 --> 00:08:11,139

how is that all progressing I mean it

168

00:08:15,779 --> 00:08:12,789

must be progressing somewhat if you're

169

00:08:16,090 --> 00:08:15,789

going on to this interesting experiment

170

00:08:19,420 --> 00:08:16,100

in the

171

00:08:21,420 --> 00:08:19,430

Utah desert well yeah so the experiment

172

00:08:23,470 --> 00:08:21,430

in Utah desert is with the Mars Society

173

00:08:25,660 --> 00:08:23,480

which is a completely separate

174

00:08:27,490 --> 00:08:25,670

organization from Mars one rod Dutch

175

00:08:31,090 --> 00:08:27,500

company which intends to send people to

176

00:08:34,810 --> 00:08:31,100

Mars and I applied for each of these

177

00:08:36,820 --> 00:08:34,820

things separately and the Mars Society

178

00:08:38,230 --> 00:08:36,830

accepted me into this post is the crew

179

00:08:41,350 --> 00:08:38,240

biologist and so I undertake the mission

180

00:08:44,050 --> 00:08:41,360

in March and Mars one has put me forward

181

00:08:46,750 --> 00:08:44,060

into round two of their scenario and

182

00:08:50,860 --> 00:08:46,760

I've had to undertake a medical exam

183

00:08:52,330 --> 00:08:50,870

which I passed and then at some point in

184

00:08:54,340 --> 00:08:52,340

time I'll have to sit down with them and

185

00:08:58,060 --> 00:08:54,350

have an interview to see whether or not

186

00:08:59,890 --> 00:08:58,070

I'll pass on to round three wow that's

187

00:09:04,900 --> 00:08:59,900

very exciting and that you've made the

188

00:09:06,880 --> 00:09:04,910

next stage for the Mars mission is very

189

00:09:10,330 --> 00:09:06,890

exciting and also I'm pleased that

190

00:09:12,670 --> 00:09:10,340

you're doing what else you can in order

191

00:09:15,640 --> 00:09:12,680

to further your own cause to go to Mars

192

00:09:19,510 --> 00:09:15,650

and I think you've recently launched a

193

00:09:23,020 --> 00:09:19,520

twitter feed huh mmm so I have a Twitter

194

00:09:26,710 --> 00:09:23,030

that's called red marble I still have

195

00:09:28,570 --> 00:09:26,720

not tweeted on it but i think i might

196

00:09:32,470 --> 00:09:28,580

start doing that once i get to the mark

197

00:09:35,250 --> 00:09:32,480

simulation site I guess I'm sort of

198

00:09:39,060 --> 00:09:35,260

reluctantly entering into this realm of

199

00:09:42,640 --> 00:09:39,070

self what is it called self-promotion

200

00:09:44,260 --> 00:09:42,650

self-promotion yeah yeah I mean I don't

201
00:09:45,850 --> 00:09:44,270
mind being in the limelight at all in

202
00:09:48,850 --> 00:09:45,860
fact I love being on stage and I love

203
00:09:50,350 --> 00:09:48,860
you know speaking to audiences but the

204
00:09:52,060 --> 00:09:50,360
self promotion is a totally different

205
00:09:54,730 --> 00:09:52,070
aspect that I'm not used to but it's

206
00:09:57,970 --> 00:09:54,740
something that uh I'll have to learn how

207
00:10:00,550 --> 00:09:57,980
to acquire artfully or tastefully I hope

208
00:10:04,210 --> 00:10:00,560
at least well it's the necessary evils

209
00:10:07,000 --> 00:10:04,220
isn't it now tell me tell me more about

210
00:10:09,760 --> 00:10:07,010
what you expect it to be like when you

211
00:10:12,460 --> 00:10:09,770
simulate being on Mars in this little

212
00:10:13,750 --> 00:10:12,470
tin can as you as you say apart from the

213
00:10:16,060 --> 00:10:13,760

fact that you're going to put yourself

214

00:10:19,270 --> 00:10:16,070

the whole team are going to be on this

215

00:10:21,760 --> 00:10:19,280

self-imposed delay to simulate being on

216

00:10:25,300 --> 00:10:21,770

another planet what other things might

217

00:10:27,700 --> 00:10:25,310

you expect to sign so this there's

218

00:10:29,660 --> 00:10:27,710

basically three separate things which

219

00:10:32,600 --> 00:10:29,670

will occupy my time while I'm there

220

00:10:34,370 --> 00:10:32,610

first is outreach in and interviews and

221

00:10:37,070 --> 00:10:34,380

so forth so there are many schools which

222

00:10:38,390 --> 00:10:37,080

are centering mean video questions a lot

223

00:10:40,040 --> 00:10:38,400

of them are science students that want

224

00:10:42,560 --> 00:10:40,050

to get an idea what it's like to be out

225

00:10:45,290 --> 00:10:42,570

large and then there's also this school

226

00:10:49,550 --> 00:10:45,300

cup st. Michael's that's in Victoria and

227

00:10:51,590 --> 00:10:49,560

with embarking on an art project and I

228

00:10:53,660 --> 00:10:51,600

think how this will involve although the

229

00:10:56,120 --> 00:10:53,670

details aren't certain yet is is that

230

00:10:58,760 --> 00:10:56,130

the students will video in questions for

231

00:11:00,740 --> 00:10:58,770

me and in those questions they will

232

00:11:03,200 --> 00:11:00,750

request me to take certain types of

233

00:11:05,420 --> 00:11:03,210

photos and to answer certain types of

234

00:11:07,010 --> 00:11:05,430

questions and then what they will do is

235

00:11:08,270 --> 00:11:07,020

they will take all the photos and the

236

00:11:10,340 --> 00:11:08,280

questions that they give them then they

237

00:11:11,870 --> 00:11:10,350

will produce some sort of collage and

238

00:11:14,420 --> 00:11:11,880

they can alter the photos in Photoshop

239

00:11:16,130 --> 00:11:14,430

and so forth to create what they believe

240

00:11:19,010 --> 00:11:16,140

their experience would be like if they

241

00:11:20,360 --> 00:11:19,020

were to go to Mars themselves so this

242

00:11:22,430 --> 00:11:20,370

allows the students to really put a

243

00:11:24,440 --> 00:11:22,440

personal touch and to try to get

244

00:11:27,110 --> 00:11:24,450

creative with with some other people's

245

00:11:29,270 --> 00:11:27,120

medium both from the you know from from

246

00:11:31,160 --> 00:11:29,280

the onset of choosing the images in the

247

00:11:32,900 --> 00:11:31,170

beginning and also from editing them

248

00:11:34,730 --> 00:11:32,910

afterwards I don't really know what how

249

00:11:37,220 --> 00:11:34,740

that's going to work out but it could

250

00:11:38,720 --> 00:11:37,230

turn out to be really cool and then

251
00:11:43,750 --> 00:11:38,730
along the same lines we also have to do

252
00:11:46,010 --> 00:11:43,760
certain interview so there are a couple

253
00:11:48,230 --> 00:11:46,020
news8 issues that are interested and

254
00:11:51,260 --> 00:11:48,240
there's a crew biol there's a crew

255
00:11:54,770 --> 00:11:51,270
journalist it was part of every mission

256
00:11:57,320 --> 00:11:54,780
and our crew journalist is going to be

257
00:12:02,060 --> 00:11:57,330
filming a short documentary that will be

258
00:12:03,470 --> 00:12:02,070
aired by National Geographic so you know

259
00:12:04,730 --> 00:12:03,480
so some of the time is just spend more

260
00:12:05,930 --> 00:12:04,740
or less answering questions about the

261
00:12:08,690 --> 00:12:05,940
research that we're doing with that sort

262
00:12:10,310 --> 00:12:08,700
of stuff the second thing which will

263
00:12:12,890 --> 00:12:10,320

occupy probably most of my time is the

264

00:12:15,500 --> 00:12:12,900

actual research that I'm doing I'll be

265

00:12:19,460 --> 00:12:15,510

undertaking some logistical experiments

266

00:12:22,070 --> 00:12:19,470

to set up a blind crossover study a

267

00:12:23,990 --> 00:12:22,080

blind crossover study is where the

268

00:12:25,940 --> 00:12:24,000

people who are being experimented on

269

00:12:27,020 --> 00:12:25,950

don't realize what they're doing so

270

00:12:28,520 --> 00:12:27,030

they're either getting up to see boy

271

00:12:30,170 --> 00:12:28,530

they're getting a drug for example all

272

00:12:31,160 --> 00:12:30,180

right and the crossover means that part

273

00:12:32,690 --> 00:12:31,170

of the time they're actually on the

274

00:12:35,030 --> 00:12:32,700

placebo part of the time we're actually

275

00:12:37,130 --> 00:12:35,040

on the drug but I won't be studying a

276

00:12:40,140 --> 00:12:37,140

drug I'll be studying the effects of

277

00:12:42,390 --> 00:12:40,150

inducing mild hyper

278

00:12:44,220 --> 00:12:42,400

amia now this is when you have an

279

00:12:46,650 --> 00:12:44,230

elevated level of ketones in your blood

280

00:12:48,890 --> 00:12:46,660

and it's something that occurs during

281

00:12:52,760 --> 00:12:48,900

starvation or after very very strenuous

282

00:12:55,680 --> 00:12:52,770

and exercise and it's the means of

283

00:12:58,470 --> 00:12:55,690

combating the delirious effects of

284

00:13:00,750 --> 00:12:58,480

having hypoglycemia which of course is

285

00:13:03,710 --> 00:13:00,760

low blood sugar which obviously leads to

286

00:13:07,680 --> 00:13:03,720

cognitive problems and muscular fatigue

287

00:13:08,910 --> 00:13:07,690

and so evolution has allowed mammals to

288

00:13:11,580 --> 00:13:08,920

come up with this process where we can

289

00:13:13,740 --> 00:13:11,590

use ketones instead of glucose and then

290

00:13:16,200 --> 00:13:13,750

in the last fleeting moments of of life

291

00:13:18,690 --> 00:13:16,210

we have I guess an extra boost of energy

292

00:13:20,180 --> 00:13:18,700

to try to catch an animal or to do

293

00:13:25,320 --> 00:13:20,190

something that we need to do to survive

294

00:13:28,650 --> 00:13:25,330

but in theory we could also just consume

295

00:13:30,480 --> 00:13:28,660

the ketones directly and then this might

296

00:13:33,960 --> 00:13:30,490

impart some sort of increased in

297

00:13:37,980 --> 00:13:33,970

endurance or cognitive abilities and in

298

00:13:41,880 --> 00:13:37,990

fact my collaborator in Oxford at Oxford

299

00:13:44,280 --> 00:13:41,890

University in the UK Ciaran Clark she

300

00:13:45,960 --> 00:13:44,290

has been studying this for about five

301
00:13:48,930 --> 00:13:45,970
years now and that's indeed what she

302
00:13:51,000 --> 00:13:48,940
finds the high-performance athletes have

303
00:13:52,740 --> 00:13:51,010
been taking the ketones while they're

304
00:13:56,010 --> 00:13:52,750
rowing for example they find that they

305
00:13:59,040 --> 00:13:56,020
can actually go further and then in

306
00:14:01,740 --> 00:13:59,050
animal models like a mouse for example

307
00:14:03,660 --> 00:14:01,750
which has symptoms that are similar to

308
00:14:07,020 --> 00:14:03,670
alzheimer's disease for the cognitive

309
00:14:09,150 --> 00:14:07,030
deficits they find that in giving them

310
00:14:11,940 --> 00:14:09,160
the ketone in their diet actually

311
00:14:14,640 --> 00:14:11,950
improves their cognitive functions so

312
00:14:16,500 --> 00:14:14,650
you can imagine that if you have an

313
00:14:18,900 --> 00:14:16,510

astronaut on Mars and let's say there's

314

00:14:21,210 --> 00:14:18,910

only four of them right and two of them

315

00:14:23,070 --> 00:14:21,220

have to go out to perform an extra dick

316

00:14:26,760 --> 00:14:23,080

Uhler activity which involves repairing

317

00:14:29,430 --> 00:14:26,770

some generator or turning over the solar

318

00:14:32,460 --> 00:14:29,440

panel to something and it may be may be

319

00:14:35,610 --> 00:14:32,470

dangerous it may may be difficult and

320

00:14:37,830 --> 00:14:35,620

may last a long time it could be

321

00:14:38,850 --> 00:14:37,840

beneficial for them to have something

322

00:14:41,700 --> 00:14:38,860

that would just give them that little

323

00:14:43,650 --> 00:14:41,710

extra kick and so the research that I'm

324

00:14:45,180 --> 00:14:43,660

setting up to do is to investigate

325

00:14:47,820 --> 00:14:45,190

whether or not these cute cones have

326

00:14:51,360 --> 00:14:47,830

such a kick in in an environment like

327

00:14:52,590 --> 00:14:51,370

this and it's pretty exciting maybe I

328

00:14:54,120 --> 00:14:52,600

don't know what if it's gonna work or

329

00:14:57,150 --> 00:14:54,130

not but but

330

00:14:58,890 --> 00:14:57,160

certainly will be what consumes most of

331

00:15:01,920 --> 00:14:58,900

my time when I'm there I just have to

332

00:15:04,080 --> 00:15:01,930

say it's just this sort of research on

333

00:15:06,060 --> 00:15:04,090

these interesting little tangents that

334

00:15:07,520 --> 00:15:06,070

can lead to all sorts of discoveries

335

00:15:10,560 --> 00:15:07,530

down the track that we can't even

336

00:15:12,390 --> 00:15:10,570

envisage that's part of the reason why I

337

00:15:14,580 --> 00:15:12,400

went at the science and research in the

338

00:15:17,430 --> 00:15:14,590

first place it's just you never know

339

00:15:19,410 --> 00:15:17,440

where it's going to lead I mean for me

340

00:15:21,840 --> 00:15:19,420

the most interesting things that I've

341

00:15:24,690 --> 00:15:21,850

ever discovered you know when i was

342

00:15:26,690 --> 00:15:24,700

doing my PhD are doing do my post off

343

00:15:29,360 --> 00:15:26,700

for things that were just completely

344

00:15:31,920 --> 00:15:29,370

completely by accident or rather

345

00:15:34,340 --> 00:15:31,930

completely unpredicted it was just

346

00:15:37,830 --> 00:15:34,350

something where I was like that's funny

347

00:15:39,030 --> 00:15:37,840

and then you sort of think about it for

348

00:15:40,500 --> 00:15:39,040

a little bit and sometimes you can think

349

00:15:43,170 --> 00:15:40,510

about it for a year before you really

350

00:15:46,380 --> 00:15:43,180

understand you know what this funniness

351

00:15:48,150 --> 00:15:46,390

is and then once you have a few ideas

352

00:15:49,680 --> 00:15:48,160

you design a few more experiments to

353

00:15:51,060 --> 00:15:49,690

test whether or not you're your

354

00:15:52,350 --> 00:15:51,070

hypothesis might be correct and

355

00:15:53,730 --> 00:15:52,360

sometimes you're wrong you go to a new

356

00:15:55,590 --> 00:15:53,740

area with sometimes you're right and

357

00:15:57,170 --> 00:15:55,600

then you realize okay i mean this is

358

00:16:00,230 --> 00:15:57,180

this is something just totally

359

00:16:03,180 --> 00:16:00,240

unexpected but it's appears to be true I

360

00:16:05,940 --> 00:16:03,190

think myself that one of the phrases

361

00:16:08,010 --> 00:16:05,950

that will probably very be very

362

00:16:09,930 --> 00:16:08,020

appropriate for people living on Mars

363

00:16:12,390 --> 00:16:09,940

eventually as a necessity is the mother

364

00:16:14,910 --> 00:16:12,400

of invention I can just imagine that all

365

00:16:17,400 --> 00:16:14,920

social situations will crop up which we

366

00:16:20,730 --> 00:16:17,410

can't foresee which will necessitate

367

00:16:24,180 --> 00:16:20,740

people like you coming up with solutions

368

00:16:26,670 --> 00:16:24,190

and discoveries and inventions it's

369

00:16:28,800 --> 00:16:26,680

exactly right i mean that's that's and

370

00:16:32,220 --> 00:16:28,810

challenge is what it's makes us grow and

371

00:16:35,070 --> 00:16:32,230

and i think there will be a lot of

372

00:16:38,070 --> 00:16:35,080

innovation coming from plan of ours in

373

00:16:39,210 --> 00:16:38,080

the not so distant future now can you

374

00:16:41,580 --> 00:16:39,220

tell me a little bit more about what

375

00:16:44,160 --> 00:16:41,590

your living conditions will be like

376

00:16:47,220 --> 00:16:44,170

initially in the desert in the Utah

377

00:16:49,890 --> 00:16:47,230

desert how big is your environment do

378

00:16:52,080 --> 00:16:49,900

you have personal space what's the

379

00:16:55,230 --> 00:16:52,090

eating facilities like how much do you

380

00:16:57,570 --> 00:16:55,240

know well I don't know I don't know

381

00:17:03,510 --> 00:16:57,580

every last detail but there's a two

382

00:17:05,069 --> 00:17:03,520

floor hab module which has on the top

383

00:17:07,319 --> 00:17:05,079

floor there has like sort of a common

384

00:17:11,370 --> 00:17:07,329

space which is

385

00:17:13,259 --> 00:17:11,380

I mean smaller than your average North

386

00:17:15,899 --> 00:17:13,269

American or Australian living room for

387

00:17:17,519 --> 00:17:15,909

sure so you know quite cramped and then

388

00:17:20,819 --> 00:17:17,529

also on that same floor there are six

389

00:17:22,769 --> 00:17:20,829

bedrooms now the bedroom the entire size

390

00:17:26,159 --> 00:17:22,779

of a bedroom is probably smaller than a

391

00:17:29,250 --> 00:17:26,169

single bed so what you have is just like

392

00:17:32,009 --> 00:17:29,260

a tiny caught and then maybe maybe a

393

00:17:34,139 --> 00:17:32,019

foot or you know lesser half a meter or

394

00:17:35,940 --> 00:17:34,149

something between the edge of the bed

395

00:17:38,549 --> 00:17:35,950

and the wall and then above the bed you

396

00:17:40,830 --> 00:17:38,559

have some shelves and that's that's it

397

00:17:43,950 --> 00:17:40,840

that's your space like it's it's really

398

00:17:47,310 --> 00:17:43,960

it's like one of these capsule hotels

399

00:17:49,500 --> 00:17:47,320

and in Japan it's actually not it's not

400

00:17:52,560 --> 00:17:49,510

quite quite as cramped is that but it's

401

00:17:55,590 --> 00:17:52,570

it's pretty small and that's that's the

402

00:17:57,629 --> 00:17:55,600

entirety of your personal space but

403

00:17:59,759 --> 00:17:57,639

there is a door so you know you do have

404

00:18:02,009 --> 00:17:59,769

some privacy and there is a bed and you

405

00:18:04,019 --> 00:18:02,019

could sleep I mean when being on Mars is

406

00:18:06,060 --> 00:18:04,029

not not like being on Space Station

407

00:18:08,580 --> 00:18:06,070

where you just sort of float around and

408

00:18:10,200 --> 00:18:08,590

like you like you actually have our room

409

00:18:12,899 --> 00:18:10,210

you know which end bedroom so that's

410

00:18:14,759 --> 00:18:12,909

kind of cool and of course probably the

411

00:18:17,190 --> 00:18:14,769

gravity is a little less than F so

412

00:18:20,310 --> 00:18:17,200

you'll be able to leap tall buildings in

413

00:18:23,610 --> 00:18:20,320

a single bound maybe I'm really curious

414

00:18:25,649 --> 00:18:23,620

to see what that will feel like because

415

00:18:27,720 --> 00:18:25,659

the gravity be I think it's thirty-eight

416

00:18:32,100 --> 00:18:27,730

percent of what what it is on the earth

417

00:18:34,350 --> 00:18:32,110

and yeah you really should be able to

418

00:18:37,230 --> 00:18:34,360

jump quite high mark throw a ball quite

419

00:18:39,509 --> 00:18:37,240

far yeah the third thing that we're

420

00:18:42,870 --> 00:18:39,519

going to bed I'll be spend time what is

421

00:18:46,710 --> 00:18:42,880

I'm going to try to record music video

422

00:18:47,639 --> 00:18:46,720

while I'm there oh wow and so Chris

423

00:18:49,169 --> 00:18:47,649

Hadfield when he was on the

424

00:18:51,870 --> 00:18:49,179

International Space Station did a cover

425

00:18:54,870 --> 00:18:51,880

of David Bowie yeah I want to do a cover

426
00:18:56,129 --> 00:18:54,880
of a different data voice Tom and then I

427
00:18:58,620 --> 00:18:56,139
can pull it off and if I like the

428
00:19:00,000 --> 00:18:58,630
product in the end then and then then

429
00:19:01,940 --> 00:19:00,010
I'll make it available online for people

430
00:19:04,669 --> 00:19:01,950
to see but only if I think it's good

431
00:19:07,529 --> 00:19:04,679
we'll put some effort into that idea

432
00:19:09,930 --> 00:19:07,539
should be full of I guess he did one

433
00:19:15,539 --> 00:19:09,940
can't go past the the the song of David

434
00:19:17,879 --> 00:19:15,549
Bowie life on Mars that would that would

435
00:19:19,389 --> 00:19:17,889
be that would be the appropriate 11 I

436
00:19:20,919 --> 00:19:19,399
would imagine now

437
00:19:24,009 --> 00:19:20,929
something very interesting we're going

438
00:19:27,159 --> 00:19:24,019

to attempt to do for our listeners mesh

439

00:19:29,589 --> 00:19:27,169

is to have you answer their questions

440

00:19:31,719 --> 00:19:29,599

now a little bit later on the trip down

441

00:19:33,820 --> 00:19:31,729

the track I'll be announcing details but

442

00:19:36,700 --> 00:19:33,830

basically what we want people do to do

443

00:19:39,209 --> 00:19:36,710

now is start thinking of questions they

444

00:19:42,359 --> 00:19:39,219

can send you while you're away on this

445

00:19:44,799 --> 00:19:42,369

mission in the desert you know well

446

00:19:45,879 --> 00:19:44,809

simulating Mars they can send you

447

00:19:50,379 --> 00:19:45,889

questions and we're going to figure out

448

00:19:55,269 --> 00:19:50,389

how you can answer them probably back to

449

00:19:56,409 --> 00:19:55,279

me via the skeptic zone sounds great so

450

00:19:58,749 --> 00:19:56,419

there you are people think of your

451

00:20:00,369 --> 00:19:58,759

questions what's what do you eat on in

452

00:20:03,009 --> 00:20:00,379

this environment do you get on with the

453

00:20:04,509 --> 00:20:03,019

people i do want to run outside have you

454

00:20:07,089 --> 00:20:04,519

had enough all these sort of questions

455

00:20:10,749 --> 00:20:07,099

you can ask mesh now when are you

456

00:20:13,239 --> 00:20:10,759

actually going into this simulation I'll

457

00:20:15,459 --> 00:20:13,249

leave zurich on friday the fourteenth

458

00:20:19,299 --> 00:20:15,469

and i arrived there on the fifteenth

459

00:20:22,389 --> 00:20:19,309

into the simulation and then and then I

460

00:20:25,119 --> 00:20:22,399

last for two weeks so till the 30th wow

461

00:20:27,969 --> 00:20:25,129

so that's very soon now I think we'll

462

00:20:29,440 --> 00:20:27,979

probably even try to arrange something

463

00:20:33,879 --> 00:20:29,450

on the next show where I'll give

464

00:20:36,759 --> 00:20:33,889

listeners details on how they can send

465

00:20:41,079 --> 00:20:36,769

questions to you wish it's the next step

466

00:20:42,969 --> 00:20:41,089

in your hopeful giant leap towards Mars

467

00:20:45,009 --> 00:20:42,979

I wish you all the best I'm very excited

468

00:20:47,200 --> 00:20:45,019

it sounds like it's going to be such a

469

00:20:50,259 --> 00:20:47,210

fascinating opportunity even going into

470

00:20:54,310 --> 00:20:50,269

the simulation yeah i'm really excited

471

00:20:56,499 --> 00:20:54,320

it's chewy fudge well enjoy your zurich

472

00:20:58,209 --> 00:20:56,509

tonight have a gaze up at mars for me

473

00:21:01,749 --> 00:20:58,219

it's bright sunshine here so i can't

474

00:21:04,469 --> 00:21:01,759

quite see just at the moment and until

475

00:21:08,320 --> 00:21:04,479

we contact you next time in your

476
00:21:10,890 --> 00:21:08,330
simulation all the best fish thank you

477
00:21:10,900 --> 00:21:19,520
[Music]

478
00:21:49,470 --> 00:21:23,280
you

479
00:21:53,590 --> 00:21:51,970
hey this is jay novella from the

480
00:21:55,509 --> 00:21:53,600
skeptics guide to the universe podcast

481
00:21:57,370 --> 00:21:55,519
did you know that there are thousands of

482
00:21:59,110 --> 00:21:57,380
skeptical reports interviews and

483
00:22:01,810 --> 00:21:59,120
investigations going back to nineteen

484
00:22:05,680 --> 00:22:01,820
eighty one free to download just visit w

485
00:22:07,389 --> 00:22:05,690
WC epic coa you click the publications

486
00:22:09,100 --> 00:22:07,399
link and enjoy almost every back issue

487
00:22:10,899 --> 00:22:09,110
of the skeptic the journal from

488
00:22:12,460 --> 00:22:10,909

australian skeptics you can also

489

00:22:14,740 --> 00:22:12,470

subscribe online and get the latest

490

00:22:16,779 --> 00:22:14,750

digital or hard copy of this the world's

491

00:22:20,440 --> 00:22:16,789

second oldest skeptical magazine that's

492

00:22:31,299 --> 00:22:20,450

ww skeptics com a you or just google

493

00:22:33,279 --> 00:22:31,309

australian skeptics welcome to awaken

494

00:22:35,499 --> 00:22:33,289

science from our oils bringing you the

495

00:22:37,690 --> 00:22:35,509

science you need to know you may have

496

00:22:40,360 --> 00:22:37,700

heard that the Antarctic sea ice is

497

00:22:42,850 --> 00:22:40,370

expanding but the world is warming

498

00:22:46,549 --> 00:22:42,860

doesn't make sense till you know the

499

00:22:53,190 --> 00:22:51,000

in 2013 the maximum wintertime extent of

500

00:22:56,370 --> 00:22:53,200

the Antarctic sea ice was an all-time

501
00:22:59,070 --> 00:22:56,380
record at nineteen point 47 million

502
00:23:01,169 --> 00:22:59,080
square kilometers almost one and a half

503
00:23:03,899 --> 00:23:01,179
times the size of the Antarctic

504
00:23:06,180 --> 00:23:03,909
continent sea ice is a thin layer of ice

505
00:23:08,070 --> 00:23:06,190
typically one to two meters thick that

506
00:23:09,750 --> 00:23:08,080
forms on the surface of the ocean when

507
00:23:12,539 --> 00:23:09,760
the water is being cooled enough by the

508
00:23:14,850 --> 00:23:12,549
atmosphere once formed sea ice can move

509
00:23:17,580 --> 00:23:14,860
around pushed by winds and currents and

510
00:23:19,919 --> 00:23:17,590
continues to grow by further freezing

511
00:23:22,110 --> 00:23:19,929
and collision with other sea ice when

512
00:23:23,850 --> 00:23:22,120
the atmosphere and the oceans warm again

513
00:23:26,370 --> 00:23:23,860

in the spring or when the sea ice has

514

00:23:30,090 --> 00:23:26,380

moved towards the equator it begins to

515

00:23:32,399 --> 00:23:30,100

melt in the northern hemisphere the

516

00:23:34,680 --> 00:23:32,409

Arctic sea ice has been declining over

517

00:23:37,260 --> 00:23:34,690

the last few decades as the atmosphere

518

00:23:39,450 --> 00:23:37,270

is warmed a recent paper has found that

519

00:23:41,580 --> 00:23:39,460

the amount of energy radiated back into

520

00:23:44,340 --> 00:23:41,590

space is the dominant reason why the

521

00:23:46,590 --> 00:23:44,350

Arctic is warming much faster than the

522

00:23:48,659 --> 00:23:46,600

Earth's average but the extent of

523

00:23:52,110 --> 00:23:48,669

Antarctic sea ice has been steadily

524

00:23:54,360 --> 00:23:52,120

increasing as the planet gets warmer the

525

00:23:56,640 --> 00:23:54,370

difference is that in the south there is

526

00:23:59,730 --> 00:23:56,650

a frozen continent delivering cold air

527

00:24:02,430 --> 00:23:59,740

to the surrounding seas while Arctic sea

528

00:24:04,919 --> 00:24:02,440

ice forms over open water and the huge

529

00:24:07,529 --> 00:24:04,929

net increase in area of the Antarctic

530

00:24:10,440 --> 00:24:07,539

sea ice masks strong regional declines

531

00:24:12,960 --> 00:24:10,450

in sea ice volume around the continent

532

00:24:15,390 --> 00:24:12,970

and now for fast facts that may

533

00:24:19,680 --> 00:24:15,400

contribute to the expanding Antarctic

534

00:24:21,810 --> 00:24:19,690

sea ice increased westerly winds around

535

00:24:23,940 --> 00:24:21,820

the Southern Ocean driven by climate

536

00:24:26,730 --> 00:24:23,950

change in ozone depletion could be

537

00:24:28,680 --> 00:24:26,740

driving sea ice northward more rain and

538

00:24:31,230 --> 00:24:28,690

snow other effects of climate change

539

00:24:33,899 --> 00:24:31,240

could be layering the Southern Ocean

540

00:24:35,610 --> 00:24:33,909

with a cool dense layer on top rain and

541

00:24:37,710 --> 00:24:35,620

snow could also be freshening the

542

00:24:39,360 --> 00:24:37,720

surface waters and thus increasing the

543

00:24:42,299 --> 00:24:39,370

local freezing point for sea ice

544

00:24:44,880 --> 00:24:42,309

formation and increasing melting of the

545

00:24:46,710 --> 00:24:44,890

Antarctic continental ice is producing

546

00:24:49,169 --> 00:24:46,720

more icebergs that will contribute to

547

00:24:51,330 --> 00:24:49,179

sea ice formation that's it for this a

548

00:24:53,340 --> 00:24:51,340

week in science for more information on

549

00:24:57,930 --> 00:24:53,350

Antarctic sea ice go to the our oils

550

00:24:58,810 --> 00:24:57,940

website r-ia us or go you follow us on

551
00:25:02,049 --> 00:24:58,820
Twitter at our

552
00:25:03,639 --> 00:25:02,059
rose and like us on Facebook my name's

553
00:25:06,580 --> 00:25:03,649
Paul willis and i'll catch you back here

554
00:25:16,799 --> 00:25:14,070
[Music]

555
00:25:18,930 --> 00:25:16,809
hi I'm Finn and I'm Rebecca and where

556
00:25:20,700 --> 00:25:18,940
the skipper cons skipper Collins is an

557
00:25:22,380 --> 00:25:20,710
Irish podcast by the Dublin skeptics

558
00:25:23,940 --> 00:25:22,390
society it takes a conversational

559
00:25:25,200 --> 00:25:23,950
reverent look at science news and

560
00:25:28,740 --> 00:25:25,210
skeptical topics from an Irish

561
00:25:32,990 --> 00:25:28,750
perspective you can find us out wws

562
00:25:43,480 --> 00:25:38,790
[Music]

563
00:25:47,210 --> 00:25:43,490

here's my not spooky action at a

564

00:25:51,810 --> 00:25:49,950

welcome to Maynard spooky action at a

565

00:25:54,180 --> 00:25:51,820

distance today something very different

566

00:25:55,920 --> 00:25:54,190

for me our beloved cat Tinkerbelle

567

00:25:58,830 --> 00:25:55,930

otherwise known as Tinker has had an

568

00:26:01,080 --> 00:25:58,840

ulcer on her left eye that drops wasn't

569

00:26:03,600 --> 00:26:01,090

able to solve so I'm going to the

570

00:26:05,820 --> 00:26:03,610

merriweather vet today and taking tinker

571

00:26:07,890 --> 00:26:05,830

along my dead mum are quite nervous

572

00:26:10,530 --> 00:26:07,900

about the whole thing the cat is 19

573

00:26:12,090 --> 00:26:10,540

years old which is pretty old i think

574

00:26:13,770 --> 00:26:12,100

that was a person that be 3 million

575

00:26:15,180 --> 00:26:13,780

she's not too happy about the whole

576

00:26:17,910 --> 00:26:15,190

thing and she's being put in what they

577

00:26:19,440 --> 00:26:17,920

call the cranky cat cage because she's

578

00:26:21,690 --> 00:26:19,450

needing a bit of sedation that's not the

579

00:26:23,280 --> 00:26:21,700

same as a regular sedation because she's

580

00:26:25,050 --> 00:26:23,290

old and the heart could have problems

581

00:26:26,220 --> 00:26:25,060

and we're going to see how we go and

582

00:26:29,210 --> 00:26:26,230

i'll be back at the end of it to tell

583

00:26:31,680 --> 00:26:29,220

you how she's getting on brave tinker

584

00:26:33,150 --> 00:26:31,690

I'm just inside what you'd call the

585

00:26:35,040 --> 00:26:33,160

operating room here and we've got Chris

586

00:26:37,230 --> 00:26:35,050

here good afternoon Chris good afternoon

587

00:26:39,390 --> 00:26:37,240

how are you I'm fine a bit nervous cuz

588

00:26:41,010 --> 00:26:39,400

we've got a 19 year old cat that's about

589

00:26:43,320 --> 00:26:41,020

to undergo a bit of minor surgery here

590

00:26:45,360 --> 00:26:43,330

but this is what I was described as the

591

00:26:48,090 --> 00:26:45,370

cranky cat cage it's good for cats are a

592

00:26:49,860 --> 00:26:48,100

bit cranky yes it's also safe form of

593

00:26:52,440 --> 00:26:49,870

induction an old captors you don't have

594

00:26:55,800 --> 00:26:52,450

to use other more powerful anesthetic

595

00:26:57,930 --> 00:26:55,810

agents that could compromise the

596

00:27:01,110 --> 00:26:57,940

cardiovascular system and you've got the

597

00:27:02,850 --> 00:27:01,120

the standard vet no bets cat that keeps

598

00:27:04,140 --> 00:27:02,860

wanting to get into the cage is that

599

00:27:06,000 --> 00:27:04,150

just because cats like getting into

600

00:27:08,040 --> 00:27:06,010

boxes so because this is an obvious box

601
00:27:09,600 --> 00:27:08,050
this cat that lives here wants to hop in

602
00:27:11,250 --> 00:27:09,610
there I think that's re oh yes he just

603
00:27:13,680 --> 00:27:11,260
likes getting into every box in this

604
00:27:16,590 --> 00:27:13,690
clinic there's a layman in the

605
00:27:18,480 --> 00:27:16,600
veterinary surgeons surgery it's all a

606
00:27:21,330 --> 00:27:18,490
bit spooky that I think this stuff is it

607
00:27:23,130 --> 00:27:21,340
looks a bit like a human's surgery

608
00:27:25,800 --> 00:27:23,140
except maybe not as clean and the

609
00:27:28,680 --> 00:27:25,810
devices are a lot smaller now that would

610
00:27:33,300 --> 00:27:28,690
be Tinker Bell there if you think

611
00:27:37,580 --> 00:27:33,310
they'll go check now that you put it in

612
00:27:40,470 --> 00:27:37,590
there and just have a look at them um

613
00:27:42,120 --> 00:27:40,480

now what normally happens is you just

614

00:27:44,820 --> 00:27:42,130

sort of dozes off or it makes your bit

615

00:27:47,779 --> 00:27:44,830

groggy it will cause her to become

616

00:27:49,899 --> 00:27:47,789

groggy initially just

617

00:27:53,749 --> 00:27:49,909

to the point where she's able to be

618

00:27:55,369 --> 00:27:53,759

taken out of the cage and intubated to

619

00:27:59,330 --> 00:27:55,379

Belichick here so I can connect through

620

00:28:02,930 --> 00:27:59,340

gases anesthesia machine she may become

621

00:28:05,379 --> 00:28:02,940

a little bit disorientated and her limbs

622

00:28:08,210 --> 00:28:05,389

might be in some strange positions and

623

00:28:11,690 --> 00:28:08,220

that's she thatthat's point of time

624

00:28:13,820 --> 00:28:11,700

she'll be quite deeply sedated so that's

625

00:28:15,680 --> 00:28:13,830

not going to distress her in any way why

626
00:28:17,509 --> 00:28:15,690
and the reason we're doing this is cause

627
00:28:18,799 --> 00:28:17,519
of a rage any other sort of anesthetic

628
00:28:21,830 --> 00:28:18,809
will be dangerous because of the heart

629
00:28:23,419 --> 00:28:21,840
of the cat isn't well in part but the

630
00:28:25,700 --> 00:28:23,429
other way to anesthetize her would be to

631
00:28:27,619 --> 00:28:25,710
put a mask over her face but she's a

632
00:28:30,109 --> 00:28:27,629
cranky old girl and she went probably

633
00:28:32,239 --> 00:28:30,119
cope with it another possibility is by

634
00:28:33,469 --> 00:28:32,249
putting a catheter into one of the veins

635
00:28:35,960 --> 00:28:33,479
in her arms and then giving her

636
00:28:37,909 --> 00:28:35,970
intravenous induction agent but big game

637
00:28:40,279 --> 00:28:37,919
she's a cranky old girl she probably

638
00:28:44,960 --> 00:28:40,289

won't talk about dance I think this is a

639

00:28:49,060 --> 00:28:44,970

much safer and better agent for an old

640

00:28:51,919 --> 00:28:49,070

cat who's got who's cranky and old and

641

00:28:57,589 --> 00:28:51,929

possibly a fragile cardiovascular stead

642

00:29:00,289 --> 00:28:57,599

it keeps us safe as well yes and fire

643

00:29:02,210 --> 00:29:00,299

mr. heaven and the operation she's

644

00:29:04,489 --> 00:29:02,220

having used a relatively minor just

645

00:29:06,379 --> 00:29:04,499

using a cotton bud to scraper to live

646

00:29:07,909 --> 00:29:06,389

and also that she has on her eyeball but

647

00:29:10,969 --> 00:29:07,919

if she was awake she wouldn't be put up

648

00:29:14,330 --> 00:29:10,979

putting up for that I know I can didn't

649

00:29:15,950 --> 00:29:14,340

a less cranky cat we could probably do

650

00:29:17,960 --> 00:29:15,960

the procedure with local anesthetic and

651
00:29:19,509 --> 00:29:17,970
sedation or even just gentle restraint

652
00:29:22,219 --> 00:29:19,519
but in her case it's going to require

653
00:29:24,560 --> 00:29:22,229
general anesthetic to do and the

654
00:29:27,739 --> 00:29:24,570
procedure is actually use a grid

655
00:29:29,629 --> 00:29:27,749
keratotomy which is producing a number

656
00:29:31,249 --> 00:29:29,639
of small linear cuts across hatch

657
00:29:33,019 --> 00:29:31,259
pattern on the surface of the cornea

658
00:29:37,219 --> 00:29:33,029
over the also once it's been done

659
00:29:39,310 --> 00:29:37,229
branded with a cotton bud and takes a

660
00:29:41,659 --> 00:29:39,320
little bit of deft work and

661
00:29:43,129 --> 00:29:41,669
concentration and i knows usually have

662
00:29:45,049 --> 00:29:43,139
to use a magnifying loupe to do it

663
00:29:46,280 --> 00:29:45,059

properly and that's a bit hard to do in

664

00:29:47,630 --> 00:29:46,290

a cranky old girl

665

00:29:49,160 --> 00:29:47,640

yeah what doesn't want to be where you

666

00:29:50,780 --> 00:29:49,170

know I'll make sure I stay out of your

667

00:29:52,430 --> 00:29:50,790

way it's a little bit disturbing to the

668

00:29:53,600 --> 00:29:52,440

layman seeing a cat go to sleep like

669

00:29:55,640 --> 00:29:53,610

that but I guess you do this kind of

670

00:29:57,890 --> 00:29:55,650

every day don't you oh yes and and

671

00:30:02,110 --> 00:29:57,900

certainly now if you're not used to

672

00:30:04,130 --> 00:30:02,120

seeing how I can't or any animal

673

00:30:06,230 --> 00:30:04,140

transgresses through the various planes

674

00:30:07,760 --> 00:30:06,240

of anesthesia it could be a little bit

675

00:30:10,310 --> 00:30:07,770

distressing but one has to realize that

676

00:30:12,200 --> 00:30:10,320

this is a humane and very standard

677

00:30:14,780 --> 00:30:12,210

procedure that works very well in many

678

00:30:16,730 --> 00:30:14,790

cases it's forcing a non-sexual gasps

679

00:30:18,380 --> 00:30:16,740

you using now static gases at one that's

680

00:30:19,970 --> 00:30:18,390

used for humans in a lesser amount ORS

681

00:30:23,900 --> 00:30:19,980

are specifically for called isoflurane

682

00:30:26,270 --> 00:30:23,910

fluid that's mixed with just one hundred

683

00:30:28,070 --> 00:30:26,280

percent oxygen and today surgery day how

684

00:30:30,800 --> 00:30:28,080

many animals we've been working on today

685

00:30:33,200 --> 00:30:30,810

well we've had major abdominal surgery

686

00:30:36,830 --> 00:30:33,210

on dog this morning we're doing this

687

00:30:38,450 --> 00:30:36,840

procedure now we've got x-rays of a

688

00:30:40,070 --> 00:30:38,460

bladder an ultrasound of a blender to do

689

00:30:42,290 --> 00:30:40,080

after that I've just finished doing it

690

00:30:44,570 --> 00:30:42,300

to our neurological examination on a dog

691

00:30:48,410 --> 00:30:44,580

with back pain so it's been an

692

00:30:49,490 --> 00:30:48,420

interesting day and this is the same

693

00:30:51,290 --> 00:30:49,500

procedure as you would when you're

694

00:30:54,020 --> 00:30:51,300

putting an animal down user Eunice's

695

00:30:57,800 --> 00:30:54,030

procedure or not well if it was a cranky

696

00:30:59,570 --> 00:30:57,810

old girl and venous access was difficult

697

00:31:01,730 --> 00:30:59,580

for the same reasons I previously

698

00:31:04,280 --> 00:31:01,740

described and certainly this is an

699

00:31:06,650 --> 00:31:04,290

excellent way of getting to a point

700

00:31:08,810 --> 00:31:06,660

where you can get a venous accent access

701
00:31:14,659 --> 00:31:08,820
to do that sort of procedure as well we

702
00:31:18,859 --> 00:31:14,669
might be right here pussycat

703
00:31:20,930 --> 00:31:18,869
to a point where we can then transfer it

704
00:31:22,489 --> 00:31:20,940
from the cage and place our masks and

705
00:31:25,399 --> 00:31:22,499
give it the same anesthetic gas that we

706
00:31:26,899 --> 00:31:25,409
gave it in the chamber fire a mask and

707
00:31:28,460 --> 00:31:26,909
i'll see if you've got your hand on a

708
00:31:30,379 --> 00:31:28,470
heart there so she could see how she

709
00:31:31,940 --> 00:31:30,389
going how's the heart games is exactly

710
00:31:33,799 --> 00:31:31,950
what it's supposed to be doing very

711
00:31:36,470 --> 00:31:33,809
nicely that's all doing very well I

712
00:31:39,769 --> 00:31:36,480
press the stache so so we're gonna do

713
00:31:42,379 --> 00:31:39,779

now is we're going to open your mouth

714

00:31:44,479 --> 00:31:42,389

and push some local anesthetic on top

715

00:31:47,450 --> 00:31:44,489

shakya which desensitizes it and

716

00:31:54,139 --> 00:31:47,460

therefore her larynx mean and allows us

717

00:31:56,029 --> 00:31:54,149

to place a tube down her trachea what

718

00:31:58,279 --> 00:31:56,039

point we had here well we're at the

719

00:32:02,090 --> 00:31:58,289

point now where we have i carefully

720

00:32:04,909 --> 00:32:02,100

anesthetized and we're going to get our

721

00:32:09,680 --> 00:32:04,919

surgical gear ready and do the small

722

00:32:12,320 --> 00:32:09,690

operation now and that how many years

723

00:32:14,840 --> 00:32:12,330

have you been a veterinarian nurse five

724

00:32:16,460 --> 00:32:14,850

years been in training but trained two

725

00:32:18,470 --> 00:32:16,470

years they've been our training for five

726

00:32:19,909 --> 00:32:18,480

years so seven years all together so

727

00:32:21,849 --> 00:32:19,919

you've seen a few cranky cats in your

728

00:32:24,169 --> 00:32:21,859

time yes I have our own one actually

729

00:32:25,669 --> 00:32:24,179

unfortunately that's a yes but worst

730

00:32:28,399 --> 00:32:25,679

injury you've received at work or at

731

00:32:31,220 --> 00:32:28,409

home from a cat um I haven't been bitten

732

00:32:32,720 --> 00:32:31,230

as of yet but you know can't say that

733

00:32:34,430 --> 00:32:32,730

yet I have been scratched pretty bad

734

00:32:37,099 --> 00:32:34,440

where how did you go to hospital or

735

00:32:39,619 --> 00:32:37,109

anything but had to UM get like auntie

736

00:32:41,840 --> 00:32:39,629

for a cream for it but that's about it I

737

00:32:43,430 --> 00:32:41,850

haven't been I'd be very lucky yeah so I

738

00:32:45,499 --> 00:32:43,440

mentioned this operation is pretty

739

00:32:47,269 --> 00:32:45,509

run-of-the-mill today this one yeah do

740

00:32:50,149 --> 00:32:47,279

we do Chris does this procedure pre

741

00:32:52,249 --> 00:32:50,159

often actually okay now actually what

742

00:32:54,169 --> 00:32:52,259

normally makes a cat get an ulcer in the

743

00:32:56,479 --> 00:32:54,179

eye is it an infection or some sort of

744

00:32:59,239 --> 00:32:56,489

physical impact physical injury

745

00:33:02,269 --> 00:32:59,249

sometimes it can be caused by an eyelid

746

00:33:03,799 --> 00:33:02,279

that rubs in the eye as you elucidated

747

00:33:05,210 --> 00:33:03,809

sometimes an infection can do it but

748

00:33:07,669 --> 00:33:05,220

that's unusual

749

00:33:09,710 --> 00:33:07,679

some animals can have decreased tear

750

00:33:11,750 --> 00:33:09,720

production which can make you hornier

751

00:33:15,200 --> 00:33:11,760

prone to drying out and secondary

752

00:33:16,970 --> 00:33:15,210

corneal ulcers so is it more prone to

753

00:33:19,789 --> 00:33:16,980

happen in older animals no not

754

00:33:21,950 --> 00:33:19,799

necessarily in the case of discount we

755

00:33:23,419 --> 00:33:21,960

don't know the cause but by the shape of

756

00:33:25,070 --> 00:33:23,429

the ulcer and it's sudden onset we

757

00:33:27,320 --> 00:33:25,080

presume it with some form of trauma

758

00:33:31,430 --> 00:33:27,330

mm-hmm usually catching a walk through

759

00:33:35,630 --> 00:33:31,440

bushes and backyards and so they're in a

760

00:33:37,220 --> 00:33:35,640

cat fight with its this cat's an indoor

761

00:33:40,370 --> 00:33:37,230

cat so it's probably bumped into

762

00:33:41,960 --> 00:33:40,380

something inside the house as assistant

763

00:33:43,430 --> 00:33:41,970

in this procedure what are you looking

764

00:33:45,470 --> 00:33:43,440
out for the whole time while the

765

00:33:47,720 --> 00:33:45,480
cruisers doing his surgery work I'm

766

00:33:49,820 --> 00:33:47,730
monitoring monitoring the depth of the

767

00:33:51,830 --> 00:33:49,830
anesthetic so our job is to know your

768

00:33:54,470 --> 00:33:51,840
sister Kristen getting instruments or

769

00:33:56,210 --> 00:33:54,480
anything you need but we also make

770

00:33:59,510 --> 00:33:56,220
monitor the anaesthetic itself so we

771

00:34:01,940 --> 00:33:59,520
record every 10 minutes the sets of the

772

00:34:04,490 --> 00:34:01,950
animal which includes the orkin

773

00:34:07,730 --> 00:34:04,500
saturation the breathing into the heart

774

00:34:09,889 --> 00:34:07,740
rate and so if any of that changes or we

775

00:34:11,960 --> 00:34:09,899
are concerned we let chris know first we

776

00:34:14,810 --> 00:34:11,970

then take steps to find out why it's

777

00:34:18,560 --> 00:34:14,820

changed sometimes it's just a probe or

778

00:34:20,240 --> 00:34:18,570

chords malfunctioned or its needs to be

779

00:34:22,970 --> 00:34:20,250

repositioned in some way that we do

780

00:34:26,000 --> 00:34:22,980

first but mainly we make sure the animal

781

00:34:27,680 --> 00:34:26,010

stays in either iced and since I won't

782

00:34:31,639 --> 00:34:27,690

interrupt Chrissy can you explain what

783

00:34:33,800 --> 00:34:31,649

he's doing there now he is grabbing the

784

00:34:36,950 --> 00:34:33,810

third eyelid could it's in the way cats

785

00:34:39,290 --> 00:34:36,960

and was a third eyelid which when

786

00:34:40,700 --> 00:34:39,300

they're another ties it can't be they

787

00:34:43,070 --> 00:34:40,710

can't pull it back because it's like a

788

00:34:45,349 --> 00:34:43,080

muscle so Chris has now pulled it back

789

00:34:48,109 --> 00:34:45,359

and he was actually staining the ulcer

790

00:34:50,659 --> 00:34:48,119

on the eye so he can actually see where

791

00:34:53,450 --> 00:34:50,669

it is before he then starts to procedure

792

00:34:56,149 --> 00:34:53,460

and then he put some brazen around where

793

00:34:58,640 --> 00:34:56,159

it is with a cotton a solution yeah so

794

00:35:01,490 --> 00:34:58,650

we then get to cotton tip and get

795

00:35:03,740 --> 00:35:01,500

through the rough edges and then he will

796

00:35:06,859 --> 00:35:03,750

get a fine needle and that's when he

797

00:35:08,750 --> 00:35:06,869

draws it grids on the older and the grid

798

00:35:12,710 --> 00:35:08,760

actually makes it easier for the cats

799

00:35:14,510 --> 00:35:12,720

and natural eyelid I ball coding corn

800

00:35:16,540 --> 00:35:14,520

cornea what's possible yeah the cornea

801
00:35:19,590 --> 00:35:16,550
to heal properly yeah

802
00:35:25,120 --> 00:35:19,600
okay because you can see the AH severe

803
00:35:27,310 --> 00:35:25,130
you see that little green area oh yes

804
00:35:29,800 --> 00:35:27,320
yes I'm in the center of the cornea okay

805
00:35:35,050 --> 00:35:29,810
no I had a fairly standard also large

806
00:35:37,240 --> 00:35:35,060
small too small on yes now what he

807
00:35:38,770 --> 00:35:37,250
derided the redundant epithelium around

808
00:35:41,170 --> 00:35:38,780
the ulcer edge and see how much bigger

809
00:35:43,030 --> 00:35:41,180
it is something that was a lot bigger

810
00:35:44,740 --> 00:35:43,040
than we thought oh yes much bigger and

811
00:35:49,180 --> 00:35:44,750
this is often the case when you first

812
00:35:52,480 --> 00:35:49,190
stain them they appear much smaller they

813
00:35:55,090 --> 00:35:52,490

actually are and one of the clues you

814

00:35:57,790 --> 00:35:55,100

get is that they don't heal by normal

815

00:36:00,940 --> 00:35:57,800

topical treatment and just move my head

816

00:36:02,980 --> 00:36:00,950

a little bit closer thinking so does the

817

00:36:04,540 --> 00:36:02,990

the larger size of the older than you

818

00:36:08,040 --> 00:36:04,550

thought point to it being a particular

819

00:36:11,830 --> 00:36:08,050

kind of cause well it has a cheer

820

00:36:16,210 --> 00:36:11,840

graphic sort of shape which might

821

00:36:19,240 --> 00:36:16,220

suggest involvement of a feline herpes

822

00:36:22,410 --> 00:36:19,250

virus but it could just be due to trauma

823

00:36:25,720 --> 00:36:22,420

and it's just spread it's difficult to

824

00:36:30,610 --> 00:36:25,730

make a diagnosis it's clear cut in this

825

00:36:36,130 --> 00:36:30,620

stage so you have to do Catherine's live

826

00:36:39,550 --> 00:36:36,140

down which is old she hasn't got much

827

00:36:41,650 --> 00:36:39,560

periorbital fat so her eye is so pushed

828

00:36:45,880 --> 00:36:41,660

back into her skull which makes accessed

829

00:36:50,300 --> 00:36:45,890

it's also challenging I think I've got

830

00:36:57,330 --> 00:36:52,650

so you can see how I could not have done

831

00:36:58,500 --> 00:36:57,340

this in a conscious again alright so

832

00:37:00,420 --> 00:36:58,510

we've finished the procedure here

833

00:37:02,700 --> 00:37:00,430

crystal where we up to what did you just

834

00:37:06,570 --> 00:37:02,710

do we scare ified the surface of the

835

00:37:10,590 --> 00:37:06,580

cornea with a age of a 25 gauge needle

836

00:37:14,550 --> 00:37:10,600

in a grid pattern and that's basically

837

00:37:16,980 --> 00:37:14,560

the procedures very simple and hopefully

838

00:37:19,710 --> 00:37:16,990

that will stimulate corneal regrowth and

839

00:37:22,110 --> 00:37:19,720

of the epithelium and they also will

840

00:37:23,700 --> 00:37:22,120

help hmm that's it and now what's a

841

00:37:25,650 --> 00:37:23,710

reverse procedure for bringing the cat

842

00:37:30,060 --> 00:37:25,660

out of anesthetic well we basically

843

00:37:31,740 --> 00:37:30,070

turned against intensity and maintain

844

00:37:35,370 --> 00:37:31,750

the cattle oxygen for period of about

845

00:37:37,770 --> 00:37:35,380

four or five minutes and watch their

846

00:37:42,330 --> 00:37:37,780

oxygen saturation once they remain

847

00:37:44,100 --> 00:37:42,340

stable then we disconnect the cat from

848

00:37:47,750 --> 00:37:44,110

the anesthetic racine making sure that

849

00:37:51,450 --> 00:37:47,760

it can maintain its oxygenation without

850

00:37:54,240 --> 00:37:51,460

a hundred percent oxygen but just on

851

00:37:56,730 --> 00:37:54,250

room air and if all goes well a cat will

852

00:37:58,890 --> 00:37:56,740

start to wake up gradually over the next

853

00:38:00,900 --> 00:37:58,900

four or five minutes and we'll extubated

854

00:38:02,910 --> 00:38:00,910

will put it back in its cage okay and

855

00:38:04,710 --> 00:38:02,920

about emily cap be feeling groggy girl

856

00:38:06,060 --> 00:38:04,720

strange for a few hours what norm what

857

00:38:08,880 --> 00:38:06,070

do cats normally do when they come out

858

00:38:12,780 --> 00:38:08,890

of anesthetic yes they never kill me

859

00:38:15,060 --> 00:38:12,790

when I asked them but this cat was

860

00:38:16,680 --> 00:38:15,070

pre-medicated with sedative so we'll be

861

00:38:18,570 --> 00:38:16,690

sedated probably for another four to six

862

00:38:20,010 --> 00:38:18,580

hours probably longer for an older cat

863

00:38:21,480 --> 00:38:20,020

because they metabolize these things

864

00:38:24,990 --> 00:38:21,490

slower and their brains are more

865

00:38:27,630 --> 00:38:25,000

affected by them so the cattle be pretty

866

00:38:29,340 --> 00:38:27,640

snazzy four or five hours but hopefully

867

00:38:32,070 --> 00:38:29,350

by that fire what this afternoon we'll

868

00:38:34,590 --> 00:38:32,080

be up and sitting up and walking around

869

00:38:36,930 --> 00:38:34,600

enough to be able to go home so was that

870

00:38:38,220 --> 00:38:36,940

a pretty for that procedures that have

871

00:38:39,780 --> 00:38:38,230

been a pretty run-of-the-mill what you

872

00:38:41,580 --> 00:38:39,790

expected there was he also a little bit

873

00:38:43,950 --> 00:38:41,590

bigger than I you thought bigger than I

874

00:38:49,410 --> 00:38:43,960

had expected and took a little extra

875

00:38:50,970 --> 00:38:49,420

time to do but now there's one operation

876

00:38:54,780 --> 00:38:50,980

like this normally get an ulcer of that

877

00:38:56,580 --> 00:38:54,790

size usually most the time we only need

878

00:38:59,220 --> 00:38:56,590

to do a once I've had the occasional

879

00:38:59,930 --> 00:38:59,230

case where we have about twice most of

880

00:39:02,500 --> 00:38:59,940

the times

881

00:39:04,880 --> 00:39:02,510

solves the problem so keep a physical

882

00:39:06,380 --> 00:39:04,890

well Catherine i'll let you to wrap up

883

00:39:09,490 --> 00:39:06,390

i'll get out of the way now while you

884

00:39:12,470 --> 00:39:09,500

are getting tinker back to normal here

885

00:39:13,850 --> 00:39:12,480

and now you're keeping tinker warm with

886

00:39:15,680 --> 00:39:13,860

a little bit looks like an Egyptian

887

00:39:18,170 --> 00:39:15,690

cotton towel blanket there yeah it does

888

00:39:20,480 --> 00:39:18,180

it's I'm just a an old towel that we

889

00:39:22,190 --> 00:39:20,490

have quite a few of them in the cupboard

890

00:39:23,720 --> 00:39:22,200

in the laundry yeah we just have a heat

891

00:39:25,340 --> 00:39:23,730

map to keep the body temperature warning

892

00:39:27,110 --> 00:39:25,350

a towel and we take the temperature

893

00:39:28,970 --> 00:39:27,120

before we wake them up in her

894

00:39:30,710 --> 00:39:28,980

temperature was a little bit under

895

00:39:32,690 --> 00:39:30,720

normal but not under enough that we need

896

00:39:34,220 --> 00:39:32,700

to worry sir look I'll get out of your

897

00:39:36,140 --> 00:39:34,230

way and let the post operative procedure

898

00:39:38,660 --> 00:39:36,150

begin here what exactly was your role

899

00:39:41,390 --> 00:39:38,670

now my role now is to whack the cut up

900

00:39:43,010 --> 00:39:41,400

and use an extra bait take the tube out

901
00:39:44,930 --> 00:39:43,020
and just want to run till it's sitting

902
00:39:47,680 --> 00:39:44,940
up right thank you for your work today

903
00:39:50,120 --> 00:39:47,690
thank you and see you later Gingka and

904
00:39:51,650 --> 00:39:50,130
that was tickers adventure at the vet

905
00:39:53,660 --> 00:39:51,660
and let me tell you as a layman that

906
00:39:54,950 --> 00:39:53,670
hasn't seen any surgeries human or

907
00:39:56,600 --> 00:39:54,960
animal it was a little bit distressing

908
00:39:59,180 --> 00:39:56,610
to see an animal on that state but

909
00:40:01,460 --> 00:39:59,190
that's the way surgery goes and I'm sure

910
00:40:03,890 --> 00:40:01,470
she's gonna be fine as she is already

911
00:40:06,710 --> 00:40:03,900
it's four days later after surgery and

912
00:40:08,570 --> 00:40:06,720
she is healthy enough that she's getting

913
00:40:09,740 --> 00:40:08,580

really cranky again like it's really

914

00:40:11,390 --> 00:40:09,750

hard the butt of drops in the eyes and

915

00:40:13,400 --> 00:40:11,400

she just kind of had enough of that so

916

00:40:15,560 --> 00:40:13,410

her strengths coming back she's eating

917

00:40:17,390 --> 00:40:15,570

wing pooing walking doing all the things

918

00:40:19,640 --> 00:40:17,400

you expect a 19 year old cat to do

919

00:40:21,230 --> 00:40:19,650

unfortunately her ability to play the

920

00:40:22,130 --> 00:40:21,240

piano was somewhat limited but she

921

00:40:23,690 --> 00:40:22,140

couldn't play it in the first place

922

00:40:25,970 --> 00:40:23,700

that's okay and I want to thank

923

00:40:28,310 --> 00:40:25,980

everybody that has put lovely comments

924

00:40:30,350 --> 00:40:28,320

on facebook page and has contacted me

925

00:40:32,480 --> 00:40:30,360

and wished tinkle well and my mum and

926

00:40:34,430 --> 00:40:32,490

dad thank you all from the bottom of

927

00:40:41,290 --> 00:40:34,440

that Tinkerbell heart oh you think I

928

00:41:07,430 --> 00:40:45,530

[Music]

929

00:41:09,740 --> 00:41:07,440

well this isn't skeptics in the pub it's

930

00:41:13,180 --> 00:41:09,750

the friend in hand puppet glebe i'm here

931

00:41:16,670 --> 00:41:13,190

with KOA hello Kate I i'm going to ask

932

00:41:18,440 --> 00:41:16,680

kate to give me a hand here deciding the

933

00:41:20,900 --> 00:41:18,450

winner of our competition for the cosmos

934

00:41:22,400 --> 00:41:20,910

pack what i have is i have a trustee and

935

00:41:24,559 --> 00:41:22,410

you can confirm this and everybody

936

00:41:27,410 --> 00:41:24,569

around the table can confirm this we

937

00:41:30,620 --> 00:41:27,420

have a 10 sided die here I'll get you to

938

00:41:31,880 --> 00:41:30,630

roll it nine times and each time we'll

939

00:41:33,890 --> 00:41:31,890

have a look at the number write it down

940

00:41:35,720 --> 00:41:33,900

and those nine numbers will make up the

941

00:41:38,240 --> 00:41:35,730

random number and then we'll know who

942

00:41:40,700 --> 00:41:38,250

wins the competition so are you ready

943

00:41:42,470 --> 00:41:40,710

I'm ready so remember this is we're

944

00:41:44,990 --> 00:41:42,480

going to get a random number which is

945

00:41:48,020 --> 00:41:45,000

between one and one thousand million by

946

00:42:17,180 --> 00:41:48,030

doing this here we go the first number

947

00:42:39,880 --> 00:42:32,630

11 7777 so the number is 298 million 420

948

00:42:44,559 --> 00:42:42,009

well it's left for me to do now is to

949

00:42:48,099 --> 00:42:44,569

contact the two people who had the

950

00:42:51,250 --> 00:42:48,109

number closest to the random number

951
00:42:53,049 --> 00:42:51,260
chosen by the dice and I hope to come

952
00:42:57,910 --> 00:42:53,059
back those people this week and I'll

953
00:43:09,470 --> 00:43:04,810
[Music]

954
00:43:13,920 --> 00:43:11,820
there's a big weekend coming up at the

955
00:43:16,560 --> 00:43:13,930
beginning of April if you're a newcastle

956
00:43:18,090 --> 00:43:16,570
off if you're in sydney on the 5th and

957
00:43:20,160 --> 00:43:18,100
6th of April there's something to do

958
00:43:22,320 --> 00:43:20,170
that's Maynard related on saturday the

959
00:43:24,180 --> 00:43:22,330
fifth of April during the day at the New

960
00:43:26,160 --> 00:43:24,190
Castle Town Hall I'll be having an in

961
00:43:28,860 --> 00:43:26,170
conversation with none other than mr.

962
00:43:30,960 --> 00:43:28,870
Tim Ferguson talking about Doug Anthony

963
00:43:32,880 --> 00:43:30,970

All Stars and talking about his writing

964

00:43:34,500 --> 00:43:32,890

career his latest book carry a big stick

965

00:43:36,270 --> 00:43:34,510

we've spoken about you can have a listen

966

00:43:37,950 --> 00:43:36,280

to the podcast that that's back there in

967

00:43:40,890 --> 00:43:37,960

the stream I'll be having a chat with

968

00:43:42,540 --> 00:43:40,900

Tim on stage for about 15-20 minutes I'm

969

00:43:44,550 --> 00:43:42,550

going to throw open the floor to

970

00:43:46,350 --> 00:43:44,560

questions for Tim Ferguson from you the

971

00:43:47,790 --> 00:43:46,360

audience for the rest of the hour so is

972

00:43:49,170 --> 00:43:47,800

going to be 40 minutes of your questions

973

00:43:50,820 --> 00:43:49,180

and 20 minutes of mood changer Tim

974

00:43:52,380 --> 00:43:50,830

that's what that's but plan there's a

975

00:43:54,200 --> 00:43:52,390

cost involved with that but go to the

976
00:43:59,010 --> 00:43:54,210
Newcastle writers festival website

977
00:44:02,090 --> 00:43:59,020
it's in the New Castle Town Hall on the

978
00:44:05,670 --> 00:44:02,100
afternoon of saturday the fifth of april

979
00:44:07,860 --> 00:44:05,680
and on the afternoon of sunday the sixth

980
00:44:09,360 --> 00:44:07,870
of april from three till 6pm we're

981
00:44:11,880 --> 00:44:09,370
having a man club reunion that's right

982
00:44:13,470 --> 00:44:11,890
I'm going to be going stupid and playing

983
00:44:14,670 --> 00:44:13,480
some records and Jeff the shopkeeper

984
00:44:16,230 --> 00:44:14,680
will be there from the mayor club

985
00:44:18,030 --> 00:44:16,240
playing for a little while for three

986
00:44:20,790 --> 00:44:18,040
hours only between three and six in the

987
00:44:23,160 --> 00:44:20,800
afternoon upstairs at the record crate

988
00:44:24,720 --> 00:44:23,170

in glebe point road that's just opposite

989

00:44:26,730 --> 00:44:24,730

bad manners cafe if you've ever been

990

00:44:28,200 --> 00:44:26,740

there if you haven't look it up and come

991

00:44:30,990 --> 00:44:28,210

along I'd say the rooms and I got a

992

00:44:33,060 --> 00:44:31,000

capacity of about 50 or 60 so come one

993

00:44:34,670 --> 00:44:33,070

come all but let me assure you every one

994

00:44:39,520 --> 00:44:34,680

that comes will be just that little bit

995

00:45:02,480 --> 00:44:50,430

[Music]

996

00:45:04,100 --> 00:45:02,490

well i'm here at Sydney skeptics in the

997

00:45:06,200 --> 00:45:04,110

pub yes it's that time come around again

998

00:45:08,150 --> 00:45:06,210

and tonight's question is an interesting

999

00:45:10,100 --> 00:45:08,160

one given that the Australian

1000

00:45:11,570 --> 00:45:10,110

vaccination network has to change their

1001
00:45:14,890 --> 00:45:11,580
name and they're going to do it what

1002
00:45:18,950 --> 00:45:14,900
should they change their name to Josh I

1003
00:45:24,940 --> 00:45:18,960
don't know it depends how how awful do

1004
00:45:31,190 --> 00:45:29,810
please the acai hopes red bag what do

1005
00:45:33,800 --> 00:45:31,200
you think the Australian vaccination

1006
00:45:36,320 --> 00:45:33,810
network should be called now I've got

1007
00:45:39,350 --> 00:45:36,330
the extremely offensive aviation autumn

1008
00:45:40,940 --> 00:45:39,360
which I won't quickly I mean I will but

1009
00:45:43,940 --> 00:45:40,950
so we can feel a love you just cut it

1010
00:45:47,570 --> 00:45:43,950
out later I've been wanting them to

1011
00:45:50,960 --> 00:45:47,580
change their name since not a 99 they

1012
00:45:53,030 --> 00:45:50,970
were in fact the the impotence me to

1013
00:45:54,200 --> 00:45:53,040

start the Millennium Project I found

1014

00:45:56,480 --> 00:45:54,210

their change their name from the

1015

00:45:58,670 --> 00:45:56,490

vaccination awareness network straighten

1016

00:46:01,010 --> 00:45:58,680

vaccination network I decided that this

1017

00:46:03,640 --> 00:46:01,020

was enough people needed to be insulted

1018

00:46:06,110 --> 00:46:03,650

and they were there were top of a list I

1019

00:46:07,160 --> 00:46:06,120

I don't think that they can really come

1020

00:46:08,420 --> 00:46:07,170

up with a suitable nine because they've

1021

00:46:09,890 --> 00:46:08,430

really been told they've also sandy

1022

00:46:11,720 --> 00:46:09,900

vaccination it's interesting isn't it I

1023

00:46:12,680 --> 00:46:11,730

mean if they were truthful they would

1024

00:46:14,210 --> 00:46:12,690

just simply call themselves the

1025

00:46:16,280 --> 00:46:14,220

Australian Andy vaccination

1026

00:46:18,170 --> 00:46:16,290

we manage but they don't want to do they

1027

00:46:20,060 --> 00:46:18,180

want to do that they want to keep

1028

00:46:21,589 --> 00:46:20,070

pretending is like the one in America

1029

00:46:23,750 --> 00:46:21,599

equivalent like the National Vaccine

1030

00:46:24,950 --> 00:46:23,760

Information Center yeah but the only

1031

00:46:27,620 --> 00:46:24,960

information you can get from was there

1032

00:46:29,930 --> 00:46:27,630

Gridley bad vaccines are and and

1033

00:46:31,160 --> 00:46:29,940

generally a lie about that as well so I

1034

00:46:35,720 --> 00:46:31,170

don't know what they going to change the

1035

00:46:37,370 --> 00:46:35,730

name to maybe though I mean like Google

1036

00:46:41,089 --> 00:46:37,380

or about this in fact they could

1037

00:46:43,460 --> 00:46:41,099

probably run in court right and use any

1038

00:46:45,170 --> 00:46:43,470

name they like that's why they if they

1039

00:46:47,810 --> 00:46:45,180

got to lose it if they gave up the

1040

00:46:48,920 --> 00:46:47,820

charities go incorporation they could

1041

00:46:51,530 --> 00:46:48,930

really suck come to us whatever they

1042

00:46:53,120 --> 00:46:51,540

like and I hope nobody's told him that

1043

00:46:54,680 --> 00:46:53,130

don't tell them that don't tell that

1044

00:46:56,720 --> 00:46:54,690

that could be don't give them any clues

1045

00:46:58,490 --> 00:46:56,730

Tim mendham editor of the wonderful

1046

00:47:00,230 --> 00:46:58,500

skeptic magazine which i think is out

1047

00:47:02,930 --> 00:47:00,240

soon is that like that next week should

1048

00:47:04,430 --> 00:47:02,940

be next week and what listeners and

1049

00:47:06,440 --> 00:47:04,440

readers look forward to in the next

1050

00:47:07,700 --> 00:47:06,450

issue of the skeptic magazine Oh quite a

1051
00:47:10,609 --> 00:47:07,710
lot actually that kind of big feature

1052
00:47:13,760 --> 00:47:10,619
actually on religious people's exemption

1053
00:47:15,980 --> 00:47:13,770
from looking after their kids Oh like

1054
00:47:18,410 --> 00:47:15,990
blood transfusion blood transfusions

1055
00:47:20,540 --> 00:47:18,420
vaccinations to get a rather horrify

1056
00:47:22,370 --> 00:47:20,550
gives me horrifying article from the US

1057
00:47:24,010 --> 00:47:22,380
actually bet someone who starved their

1058
00:47:26,690 --> 00:47:24,020
child ellipticals they didn't say Amen

1059
00:47:29,630 --> 00:47:26,700
well we can't say amen to that

1060
00:47:31,310 --> 00:47:29,640
absolutely not look at various other

1061
00:47:32,930 --> 00:47:31,320
things a lot about Simon Singh who was

1062
00:47:35,300 --> 00:47:32,940
out here recently we bet he's he's

1063
00:47:37,910 --> 00:47:35,310

issues with the law again and and of

1064

00:47:39,500 --> 00:47:37,920

course his interest in mathematics good

1065

00:47:42,290 --> 00:47:39,510

we got to end the secret history of

1066

00:47:45,070 --> 00:47:42,300

dolphins secret history yeah yes we sort

1067

00:47:47,700 --> 00:47:45,080

of will give you a purpose in life

1068

00:47:50,560 --> 00:47:47,710

now we want people to subscribe to the

1069

00:47:54,070 --> 00:47:50,570

negativity and you can you can subscribe

1070

00:47:56,110 --> 00:47:54,080

by visiting w WC a pic combo day you but

1071

00:47:57,970 --> 00:47:56,120

if the Australian vaccination it will

1072

00:48:00,550 --> 00:47:57,980

all try to say when they change their

1073

00:48:06,150 --> 00:48:00,560

name what do you think that they should

1074

00:48:09,520 --> 00:48:06,160

call themselves Cole's Cole's holes

1075

00:48:16,480 --> 00:48:09,530

about wine but as well it's as honest as

1076

00:48:19,060 --> 00:48:16,490

the AVM it thank you Tim here is some

1077

00:48:21,940 --> 00:48:19,070

more people it's jessica hello Jessica

1078

00:48:23,710 --> 00:48:21,950

hey Richard how are you I'm really well

1079

00:48:25,750 --> 00:48:23,720

and tonight's question the night's

1080

00:48:27,490 --> 00:48:25,760

question is since the Australian

1081

00:48:29,500 --> 00:48:27,500

vaccination networking changing their

1082

00:48:33,460 --> 00:48:29,510

name by model they have to what do you

1083

00:48:35,850 --> 00:48:33,470

think they should be cool honestly they

1084

00:48:38,720 --> 00:48:35,860

should be called the anti-vaccination

1085

00:48:40,400 --> 00:48:38,730

because that's what they

1086

00:48:44,330 --> 00:48:40,410

that's what they are but can you think

1087

00:48:47,630 --> 00:48:44,340

of a more chemical insult anything I'm

1088

00:48:49,250 --> 00:48:47,640

more comical own song I suggest

1089

00:48:52,670 --> 00:48:49,260

something very rude but I don't think we

1090

00:48:54,920 --> 00:48:52,680

could Jim mendham suggested they should

1091

00:49:05,480 --> 00:48:54,930

be called collars this is just as honest

1092

00:49:12,320 --> 00:49:05,490

as you stay in vaccination the vaccine

1093

00:49:16,300 --> 00:49:12,330

denies organization I mean I just like

1094

00:49:18,620 --> 00:49:16,310

to keep it short short and honest

1095

00:49:22,640 --> 00:49:18,630

anti-vaccination movement that's short

1096

00:49:25,099 --> 00:49:22,650

and almost it is honest if it's and then

1097

00:49:26,480 --> 00:49:25,109

we could we could eat oddly enough we

1098

00:49:28,700 --> 00:49:26,490

would then support that land would you

1099

00:49:31,420 --> 00:49:28,710

say we support the anti-vaccination

1100

00:49:34,609 --> 00:49:31,430

network in their new name we work

1101

00:49:38,450 --> 00:49:34,619

because it's honest and it's accurate

1102

00:49:39,500 --> 00:49:38,460

what a strange state of affairs oh well

1103

00:49:42,260 --> 00:49:39,510

we wouldn't know what to do with

1104

00:49:44,930 --> 00:49:42,270

ourselves with me but i'll go home well

1105

00:49:48,890 --> 00:49:44,940

now we couldn't go handing other people

1106

00:49:50,330 --> 00:49:48,900

yes yes and and you know if they renamed

1107

00:49:53,109 --> 00:49:50,340

themselves the anti-vaccination movement

1108

00:49:56,180 --> 00:49:53,119

and we would still be doing our work

1109

00:49:58,040 --> 00:49:56,190

against the evacuation regardless though

1110

00:50:01,760 --> 00:49:58,050

i'm not to mention other things like

1111

00:50:04,280 --> 00:50:01,770

home and homeopathy chiropractors all

1112

00:50:07,400 --> 00:50:04,290

out all our very good friend was in the

1113

00:50:10,220 --> 00:50:07,410

alternative health care industry Thank

1114

00:50:12,200 --> 00:50:10,230

You Jessica nice welcome by now the

1115

00:50:14,090 --> 00:50:12,210

Australian vaccinations at work have

1116

00:50:16,740 --> 00:50:14,100

been required by law to change their

1117

00:50:18,840 --> 00:50:16,750

name and then looking for a new name

1118

00:50:24,840 --> 00:50:18,850

what do you think they should call

1119

00:50:27,420 --> 00:50:24,850

themselves crapola Inc Isley who have

1120

00:50:28,980 --> 00:50:27,430

you got any ideas yeah a good time to

1121

00:50:29,940 --> 00:50:28,990

think of this and I'm too fickle you're

1122

00:50:32,220 --> 00:50:29,950

gonna have to come back to me on that

1123

00:50:33,780 --> 00:50:32,230

one for a good answer i think that's a

1124

00:50:36,780 --> 00:50:33,790

long name I'm sure they could call

1125

00:50:39,720 --> 00:50:36,790

themselves that I think they can have

1126

00:50:41,430 --> 00:50:39,730

that one it's good to see you here at

1127

00:50:43,170 --> 00:50:41,440

skeptics in the pub at ELQ great turnout

1128

00:50:45,390 --> 00:50:43,180

tonight the room is filling up nicely

1129

00:50:48,660 --> 00:50:45,400

towards the back and we have a talk

1130

00:50:51,660 --> 00:50:48,670

tonight about Bitcoin oh ok that's

1131

00:50:54,450 --> 00:50:51,670

interesting concept red bag is going to

1132

00:50:58,440 --> 00:50:54,460

be giving that talk and tonight we're

1133

00:51:00,840 --> 00:50:58,450

giving away a cosmos to one lucky person

1134

00:51:04,290 --> 00:51:00,850

who's here which includes a cosmos carry

1135

00:51:05,520 --> 00:51:04,300

bag a cosmos book cosmos notepad and

1136

00:51:06,900 --> 00:51:05,530

some other bits and pieces in the

1137

00:51:09,420 --> 00:51:06,910

national geographic channel so you're

1138

00:51:11,760 --> 00:51:09,430

all in the running for that why are we

1139

00:51:14,610 --> 00:51:11,770

running away because you're here aha

1140

00:51:16,350 --> 00:51:14,620

okay one of the perks of coming to

1141

00:51:20,340 --> 00:51:16,360

skeptics in the pub you get random

1142

00:51:21,720 --> 00:51:20,350

giveaways you see great I wish I could

1143

00:51:24,360 --> 00:51:21,730

describe the excitement on their faces

1144

00:51:26,850 --> 00:51:24,370

listens they're just almost falling off

1145

00:51:28,710 --> 00:51:26,860

their chairs with insufficient and you

1146

00:51:30,500 --> 00:51:28,720

enjoy the rest of the night thank you

1147

00:51:32,960 --> 00:51:30,510

Richard

1148

00:51:35,620 --> 00:51:32,970

it's Kathy marks and she won the cause

1149

00:51:38,960 --> 00:51:35,630

he whispers back tonight congratulations

1150

00:51:40,790 --> 00:51:38,970

I'm just stoked s'ok mate just ached

1151

00:51:42,500 --> 00:51:40,800

it's actually because the bag the

1152

00:51:45,020 --> 00:51:42,510

customer sermon bag is a great shopping

1153

00:51:47,660 --> 00:51:45,030

bag I can't fight that's who that's

1154

00:51:51,200 --> 00:51:47,670

always happy to win it apart from just

1155

00:51:52,640 --> 00:51:51,210

sort of trying to be counterintuitive it

1156

00:51:54,800 --> 00:51:52,650

was the heads and tails and you're the

1157

00:51:56,210 --> 00:51:54,810

only one who got the last year because

1158

00:51:57,680 --> 00:51:56,220

otherwise it's gonna be agony we're

1159

00:51:59,420 --> 00:51:57,690

gonna go forever so I need it back to

1160

00:52:04,820 --> 00:51:59,430

sort of break move to break the tedium

1161

00:52:07,460 --> 00:52:04,830

actually well tonight's question what's

1162

00:52:09,470 --> 00:52:07,470

going on around the corner tonight's

1163

00:52:10,790 --> 00:52:09,480

question is the Australian vaccination

1164

00:52:17,200 --> 00:52:10,800

network have been ordered to change

1165

00:52:22,190 --> 00:52:20,360

know it's not easy the anti-vaccination

1166

00:52:24,460 --> 00:52:22,200

at work that's that's the general

1167

00:52:28,880 --> 00:52:24,470

feeling yeah because not only is that

1168

00:52:31,130 --> 00:52:28,890

truthful yes it's devastating yeah yeah

1169

00:52:34,190 --> 00:52:31,140

and until you need and that's one thing

1170

00:52:36,170 --> 00:52:34,200

and also it also is the complete inverse

1171

00:52:38,510 --> 00:52:36,180

of what they're trying to do which is to

1172

00:52:39,770 --> 00:52:38,520

say yeah we are all about vaccinations

1173

00:52:41,810 --> 00:52:39,780

virtually they're all about auntie

1174

00:52:44,330 --> 00:52:41,820

vaccinations so yeah they could call

1175

00:52:46,490 --> 00:52:44,340

themselves that I was saying before ugly

1176
00:52:49,100 --> 00:52:46,500
we we would be in the position of saying

1177
00:52:51,200 --> 00:52:49,110
we support them

1178
00:52:52,520 --> 00:52:51,210
that's still up yeah absolutely I don't

1179
00:52:54,440 --> 00:52:52,530
know seriously they're still just

1180
00:52:57,440 --> 00:52:54,450
fumbling around for a name on a new

1181
00:52:59,000 --> 00:52:57,450
daily they are they are and you know I

1182
00:53:00,170 --> 00:52:59,010
think they should be honest about it

1183
00:53:01,850 --> 00:53:00,180
I've been with the Australian skipper

1184
00:53:03,950 --> 00:53:01,860
we're completely honest we are skeptical

1185
00:53:05,930 --> 00:53:03,960
of things so why if they're so sure the

1186
00:53:06,410 --> 00:53:05,940
vaccinations are a load of bollocks why

1187
00:53:08,540 --> 00:53:06,420
don't they call themselves

1188
00:53:11,570 --> 00:53:08,550

anti-vaccination network will be my

1189

00:53:14,150 --> 00:53:11,580

feeling well surely Kathy oh good

1190

00:53:17,110 --> 00:53:14,160

questions ah anyway congratulations

1191

00:53:21,560 --> 00:53:17,120

again for their winning the cosmos oh

1192

00:53:24,500 --> 00:53:21,570

really I've sort of a name for the

1193

00:53:28,550 --> 00:53:24,510

guarantee backs network finally and if I

1194

00:53:30,800 --> 00:53:28,560

only had a brain that's a good one I'm

1195

00:53:33,260 --> 00:53:30,810

in the same category as they say sort of

1196

00:53:35,960 --> 00:53:33,270

the Australian charlatans network they

1197

00:53:38,540 --> 00:53:35,970

are the people you meet here hello who

1198

00:53:42,410 --> 00:53:38,550

do we have here hi my name is dan dan

1199

00:53:45,010 --> 00:53:42,420

green I'm from the Seattle skeptics in

1200

00:53:47,780 --> 00:53:45,020

the pub came here to check out your

1201

00:53:51,110 --> 00:53:47,790

organization here and I hope you're

1202

00:53:54,100 --> 00:53:51,120

impressed oh yeah oh yeah very impressed

1203

00:53:57,380 --> 00:53:54,110

you've got a good beautiful location

1204

00:54:00,020 --> 00:53:57,390

interesting speaker yeah well we have a

1205

00:54:03,020 --> 00:54:00,030

new speaker every month um it's a nice

1206

00:54:04,220 --> 00:54:03,030

pub it's it's quite because it's a bit

1207

00:54:06,140 --> 00:54:04,230

warm tonight because it's the middle of

1208

00:54:08,570 --> 00:54:06,150

summer of course well the end of summer

1209

00:54:10,040 --> 00:54:08,580

but it's quite it's quite warm but we

1210

00:54:11,810 --> 00:54:10,050

normally have a really good turnout of

1211

00:54:14,150 --> 00:54:11,820

the Sydney skeptics in the pub what's

1212

00:54:20,860 --> 00:54:14,160

the situation like in Seattle well um

1213

00:54:24,640 --> 00:54:20,870

seems like we have maybe 30 to 40 people

1214

00:54:28,580 --> 00:54:24,650

approximately every month is probably

1215

00:54:31,190 --> 00:54:28,590

about right and similar kind of thing we

1216

00:54:32,470 --> 00:54:31,200

just have a screen setup and somebody

1217

00:54:35,440 --> 00:54:32,480

comes in and

1218

00:54:37,540 --> 00:54:35,450

gives a talk sometimes they're they're

1219

00:54:40,750 --> 00:54:37,550

non skeptical people come and talk about

1220

00:54:43,900 --> 00:54:40,760

naturopathy or whatever and sometimes

1221

00:54:47,530 --> 00:54:43,910

they're science-oriented folks we um

1222

00:54:49,630 --> 00:54:47,540

that's interesting because we we have a

1223

00:54:53,520 --> 00:54:49,640

range of speakers but it's not

1224

00:54:56,290 --> 00:54:53,530

necessarily on a skeptical issue here

1225

00:54:58,030 --> 00:54:56,300

let's move around the corner very noisy

1226
00:54:59,080 --> 00:54:58,040
here but we're right at the bar ladies

1227
00:55:00,520 --> 00:54:59,090
and gentlemen were there clattering

1228
00:55:02,830 --> 00:55:00,530
glasses and we'll just move to this

1229
00:55:04,540 --> 00:55:02,840
corner we try to have a range of

1230
00:55:06,099 --> 00:55:04,550
speakers not necessarily skeptical but

1231
00:55:08,050 --> 00:55:06,109
just something that we think people

1232
00:55:09,760 --> 00:55:08,060
would be interested in exactly now same

1233
00:55:11,230 --> 00:55:09,770
same kind of thing can be a science

1234
00:55:13,900 --> 00:55:11,240
topic we might have an astronomer

1235
00:55:16,030 --> 00:55:13,910
astronomer come in and talk about some

1236
00:55:18,190 --> 00:55:16,040
recent discoveries or papers i think

1237
00:55:20,849 --> 00:55:18,200
that hot skeptics are very interested in

1238
00:55:23,230 --> 00:55:20,859

the latest scientific breakthroughs and

1239

00:55:27,030 --> 00:55:23,240

endeavors and things like that yeah yeah

1240

00:55:29,170 --> 00:55:27,040

and especially things that are a little

1241

00:55:30,609 --> 00:55:29,180

brand new and breaking and we're not

1242

00:55:33,849 --> 00:55:30,619

really sure if they're true or not and

1243

00:55:35,830 --> 00:55:33,859

you know skeptical science mmm so what

1244

00:55:38,680 --> 00:55:35,840

brings you to Sydney anyway uh well I

1245

00:55:41,380 --> 00:55:38,690

had a short stage play in the short +

1246

00:55:43,750 --> 00:55:41,390

sweet short and sweet um theatre

1247

00:55:46,810 --> 00:55:43,760

festival really yeah yeah just a

1248

00:55:48,490 --> 00:55:46,820

10-minute boy yeah and when they

1249

00:55:52,150 --> 00:55:48,500

accepted it i thought you know what's

1250

00:55:56,440 --> 00:55:52,160

summertime down there and maybe I better

1251
00:55:58,630 --> 00:55:56,450
go so I had plenty of vacation time so I

1252
00:55:59,770 --> 00:55:58,640
came down and watched my play the second

1253
00:56:01,660 --> 00:55:59,780
day I was here I have been a tourist

1254
00:56:04,450 --> 00:56:01,670
ever since excellent going back in a

1255
00:56:06,460 --> 00:56:04,460
couple of days yeah yeah so you know

1256
00:56:09,430 --> 00:56:06,470
I've never made it up as far as Seattle

1257
00:56:11,680 --> 00:56:09,440
I've been to oregon but i've never been

1258
00:56:12,970 --> 00:56:11,690
to Washington State yeah yeah i think

1259
00:56:14,970 --> 00:56:12,980
that the only thing I really know if

1260
00:56:18,280 --> 00:56:14,980
Seattle is from by watching frasier

1261
00:56:20,260 --> 00:56:18,290
which wasn't in Seattle they just use a

1262
00:56:23,620 --> 00:56:20,270
picture of the background yeah of course

1263
00:56:25,599 --> 00:56:23,630

it was filmed in LA yeah yeah yeah so

1264

00:56:28,090 --> 00:56:25,609

I've never seen that show so I couldn't

1265

00:56:30,160 --> 00:56:28,100

tell you it was realistic will Seattle

1266

00:56:32,620 --> 00:56:30,170

or not but up it's yeah the cut if you

1267

00:56:34,960 --> 00:56:32,630

do come make it in July and August when

1268

00:56:37,150 --> 00:56:34,970

it's July and August not yeah yeah well

1269

00:56:41,140 --> 00:56:37,160

no it is not great

1270

00:56:42,700 --> 00:56:41,150

yeah because I've actually I for some

1271

00:56:45,339 --> 00:56:42,710

reason some time ago I took the time to

1272

00:56:46,690 --> 00:56:45,349

look at Seattle on on Google Earth and

1273

00:56:48,819 --> 00:56:46,700

there's an awful lot of water around

1274

00:56:51,039 --> 00:56:48,829

isn't it yes yeah a lot of people

1275

00:56:54,309 --> 00:56:51,049

commute via fairies and things like that

1276

00:56:57,789 --> 00:56:54,319

I'm some people do um probably not as

1277

00:57:00,490 --> 00:56:57,799

much as as here in Sydney I'm you've got

1278

00:57:02,559 --> 00:57:00,500

a lot of water here a lot yes yeah it's

1279

00:57:05,410 --> 00:57:02,569

with sandals kind of a smaller scale but

1280

00:57:07,150 --> 00:57:05,420

similar thing with with beautiful

1281

00:57:09,490 --> 00:57:07,160

gorgeous mountains and they of course

1282

00:57:11,319 --> 00:57:09,500

yeah yeah of course that part of the

1283

00:57:14,260 --> 00:57:11,329

country has beautiful scenery and you're

1284

00:57:15,849 --> 00:57:14,270

just you're very close to UM British

1285

00:57:17,829 --> 00:57:15,859

Columbia yes we're not far from

1286

00:57:20,410 --> 00:57:17,839

Vancouver yeah couple hour drive to

1287

00:57:24,490 --> 00:57:20,420

Vancouver which is a wonderful city it

1288

00:57:26,710 --> 00:57:24,500

is i was in vancouver not Oh 2007 to

1289

00:57:30,250 --> 00:57:26,720

catch an amazing crews of james randi up

1290

00:57:31,420 --> 00:57:30,260

to Alaska unforgettable yeah yeah well

1291

00:57:36,010 --> 00:57:31,430

you live in a great part of the world

1292

00:57:38,020 --> 00:57:36,020

what can I say and does the duty as the

1293

00:57:40,329 --> 00:57:38,030

skeptics in the pub have a website in

1294

00:57:43,089 --> 00:57:40,339

this yellow um we have a meetup sorry

1295

00:57:45,670 --> 00:57:43,099

now excellent yeah that's it the meetup

1296

00:57:47,620 --> 00:57:45,680

site well Seattle people there's they go

1297

00:57:50,470 --> 00:57:47,630

to meet up some search on Seattle

1298

00:57:53,260 --> 00:57:50,480

skeptics yes you'll find her our monthly

1299

00:57:54,849 --> 00:57:53,270

meetup I'm often on that coast of the

1300

00:57:57,579 --> 00:57:54,859

United States I don't make it up that

1301
00:57:59,279 --> 00:57:57,589
far north very often at all but if I

1302
00:58:01,750 --> 00:57:59,289
ever come to seattle i will be

1303
00:58:03,519 --> 00:58:01,760
absolutely short let everybody know and

1304
00:58:06,220 --> 00:58:03,529
come to skeptical you i'd love to know

1305
00:58:10,210 --> 00:58:06,230
oh boy we'd love to have you you'd be

1306
00:58:12,640 --> 00:58:10,220
eschewed be a celebrity seattle people

1307
00:58:14,289 --> 00:58:12,650
send money now there we go well if it

1308
00:58:15,309 --> 00:58:14,299
was really great that you came along and

1309
00:58:16,960 --> 00:58:15,319
made the effort to come along the

1310
00:58:19,990 --> 00:58:16,970
skeptics in the pub thank you yeah

1311
00:58:21,730 --> 00:58:20,000
walking for i love being here great the

1312
00:58:23,019 --> 00:58:21,740
australian vaccination network have been

1313
00:58:24,640 --> 00:58:23,029

ordered to change their name because

1314

00:58:26,050 --> 00:58:24,650

your name is miss leonie an incorrect

1315

00:58:30,250 --> 00:58:26,060

what do you think

1316

00:58:32,170 --> 00:58:30,260

they should be cool she's laughing oh

1317

00:58:36,700 --> 00:58:32,180

I'd be very boring and say something

1318

00:58:39,100 --> 00:58:36,710

like the Australian anti-vaccination but

1319

00:58:42,280 --> 00:58:39,110

it's the best choice stitch it's on us

1320

00:58:44,830 --> 00:58:42,290

it's straightforward yet yeah I think so

1321

00:58:46,210 --> 00:58:44,840

but they'll hate us oh yes I don't think

1322

00:58:48,190 --> 00:58:46,220

they'll call themselves that know what

1323

00:58:51,330 --> 00:58:48,200

do you think they'll actually do I think

1324

00:58:54,610 --> 00:58:51,340

they will try to use the word skeptic oh

1325

00:58:57,780 --> 00:58:54,620

no oh yes oh just like the climate

1326
00:59:01,810 --> 00:58:57,790
change denies that's terrible anyway um

1327
00:59:04,360 --> 00:59:01,820
whatever they want to do you'll see and

1328
00:59:06,010 --> 00:59:04,370
I guess we just keep going what we're

1329
00:59:09,970 --> 00:59:06,020
doing but hey you know it was a great

1330
00:59:11,950 --> 00:59:09,980
win for us of course yeah yes and we can

1331
00:59:13,030 --> 00:59:11,960
you know I mean we can be we can be

1332
00:59:14,200 --> 00:59:13,040
grateful for that may can be

1333
00:59:15,640 --> 00:59:14,210
particularly grateful to all the people

1334
00:59:18,990 --> 00:59:15,650
who worked so hard on making that happen

1335
00:59:21,910 --> 00:59:19,000
yeah absolutely it was a good effort and

1336
00:59:28,240 --> 00:59:21,920
in the in the pages of history that will

1337
00:59:30,600 --> 00:59:28,250
be a silly footnote I really are

1338
00:59:33,550 --> 00:59:30,610

evidence do you know I'm hippies

1339

00:59:37,630 --> 00:59:33,560

everyone there the evidence denying

1340

00:59:40,990 --> 00:59:37,640

hippies our last week alone Jojo Alaba

1341

00:59:42,460 --> 00:59:41,000

it's joe alabaster who listeners a

1342

00:59:47,530 --> 00:59:42,470

little more remember from the skeleton

1343

00:59:49,360 --> 00:59:47,540

hello good voice over to the client area

1344

00:59:52,060 --> 00:59:49,370

but this is very noisy in this part of

1345

00:59:55,120 --> 00:59:52,070

the public from the door here oh that's

1346

00:59:57,550 --> 00:59:55,130

much better it's an interesting pub here

1347

00:59:59,470 --> 00:59:57,560

Sydney skeptics in the pub that's better

1348

01:00:02,530 --> 00:59:59,480

Joe alabaster now the question tonight

1349

01:00:05,110 --> 01:00:02,540

and I'm very glad that you came along um

1350

01:00:06,670 --> 01:00:05,120

the Australian vaccination network had

1351

01:00:09,430 --> 01:00:06,680

been order to change their name she's

1352

01:00:13,690 --> 01:00:09,440

laughing already what do you think they

1353

01:00:16,630 --> 01:00:13,700

should be called ah um I've been going

1354

01:00:19,060 --> 01:00:16,640

with the Australian biohazard Advocacy

1355

01:00:21,160 --> 01:00:19,070

Network oh that's a new one mm-hmm um

1356

01:00:22,690 --> 01:00:21,170

but yeah I've been keeping up with the

1357

01:00:25,480 --> 01:00:22,700

lists damn buzzes been keeping some

1358

01:00:27,730 --> 01:00:25,490

fantastic lists some of them I wouldn't

1359

01:00:31,060 --> 01:00:27,740

necessarily seriously recommend but I'm

1360

01:00:32,830 --> 01:00:31,070

actually endorsing biohazards yep right

1361

01:00:34,960 --> 01:00:32,840

that I haven't heard that one tonight

1362

01:00:36,430 --> 01:00:34,970

that's new most people are saying they

1363

01:00:37,900 --> 01:00:36,440

simply should be called the Australian

1364

01:00:39,190 --> 01:00:37,910

anti-vaccination that work

1365

01:00:41,049 --> 01:00:39,200

it would save them changing this

1366

01:00:43,990 --> 01:00:41,059

stationery yeah they can keep their

1367

01:00:46,539 --> 01:00:44,000

acronym and we know how Meryl is very

1368

01:00:49,750 --> 01:00:46,549

low on money very often as she seems to

1369

01:00:50,980 --> 01:00:49,760

say well thank you Joe alabaster I look

1370

01:00:52,420 --> 01:00:50,990

forward to your next appearance on this

1371

01:00:55,870 --> 01:00:52,430

cryptic service excellent I've actually

1372

01:00:57,990 --> 01:00:55,880

got a bit of a hint um or a tier oh if

1373

01:01:01,150 --> 01:00:58,000

anybody would be interested um

1374

01:01:02,829 --> 01:01:01,160

occasionally when I'm engaging with

1375

01:01:05,710 --> 01:01:02,839

people who are on the fence about

1376

01:01:07,839 --> 01:01:05,720

vaccinations or have been interacting

1377

01:01:10,480 --> 01:01:07,849

with people who are anti-vaccination I

1378

01:01:12,640 --> 01:01:10,490

tend to get a little bit down and one of

1379

01:01:14,589 --> 01:01:12,650

the things that I do to sort of boost my

1380

01:01:17,500 --> 01:01:14,599

spirits a bit is actually go to unicef's

1381

01:01:20,890 --> 01:01:17,510

website and purchase some vaccinations

1382

01:01:23,140 --> 01:01:20,900

polio or measles what a good idea it's

1383

01:01:24,250 --> 01:01:23,150

sort of a tangible well yeah it's a

1384

01:01:25,960 --> 01:01:24,260

definite way to actually be doing

1385

01:01:29,039 --> 01:01:25,970

something actively helping that I can

1386

01:01:31,510 --> 01:01:29,049

measure and know that yeah is useful so

1387

01:01:33,069 --> 01:01:31,520

that's such a good idea I'll include a

1388

01:01:34,539 --> 01:01:33,079

link on the show notes but if people

1389

01:01:38,319 --> 01:01:34,549

just want to go there now what do they

1390

01:01:40,750 --> 01:01:38,329

do they go to UNICEF org au and there is

1391

01:01:42,730 --> 01:01:40,760

the section I think it may be called

1392

01:01:44,140 --> 01:01:42,740

gifts I'm not sure it could be under the

1393

01:01:45,039 --> 01:01:44,150

shop I can't remember off the top of my

1394

01:01:47,829 --> 01:01:45,049

head because I've actually got it

1395

01:01:50,700 --> 01:01:47,839

bookmarked use it slightly often I'm

1396

01:01:52,329 --> 01:01:50,710

where I enjoy people Google UNICEF and

1397

01:01:54,670 --> 01:01:52,339

vaccination they should be able to

1398

01:01:57,490 --> 01:01:54,680

define the right place mmm absolutely

1399

01:01:59,109 --> 01:01:57,500

what a Joe alabaster what a great tip

1400

01:02:06,300 --> 01:01:59,119

what a great suggestion thank you

1401

01:02:06,310 --> 01:02:24,690

[Music]

1402

01:02:28,870 --> 01:02:26,830

thank you for listening to the skeptic

1403

01:02:32,350 --> 01:02:28,880

zone and congratulations to the two

1404

01:02:34,060 --> 01:02:32,360

lucky winners of the cosmos pack don't

1405

01:02:37,390 --> 01:02:34,070

forget listeners in Sydney if you come

1406

01:02:39,790 --> 01:02:37,400

along to the next skeptics dinner on the

1407

01:02:42,250 --> 01:02:39,800

twenty-ninth of March details of www

1408

01:02:44,380 --> 01:02:42,260

skeptics calm today you you too can have

1409

01:02:46,570 --> 01:02:44,390

the chance to win a cosmos prize pack

1410

01:02:48,150 --> 01:02:46,580

coming up on next week's show we're

1411

01:02:50,680 --> 01:02:48,160

going to be talking to Daniel Loxton

1412

01:02:53,860 --> 01:02:50,690

about a new book he's written for kids

1413

01:02:55,540 --> 01:02:53,870

all about pleasing sores but for now

1414

01:02:57,640 --> 01:02:55,550

this is Richard Saunders signing off

1415

01:03:04,360 --> 01:02:57,650

from the Royal Botanical Gardens in

1416

01:03:08,550 --> 01:03:04,370

Sydney Australia you've been listening

1417

01:03:13,240 --> 01:03:08,560

to the skeptic zone visit our website at

1418

01:03:15,560 --> 01:03:13,250

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