

A man with short dark hair, wearing a red jacket, is looking off-camera to the right. In the background, a firefighter in a tan and yellow uniform is partially visible.

The Skeptic Zone
Show 82 - 14 May 2010

John McDonough

1
00:00:20,410 --> 00:00:09,510
welcome to the skeptic zone the podcast

2
00:00:27,999 --> 00:00:23,330
hello and welcome to the skeptic zone

3
00:00:31,790 --> 00:00:28,009
episode number 82 for the 14th of may

4
00:00:35,080 --> 00:00:31,800
2010 it's Richard Saunders here my

5
00:00:38,630 --> 00:00:35,090
little studio in Sydney Australia an

6
00:00:41,299 --> 00:00:38,640
interesting show this week a grain of

7
00:00:45,130 --> 00:00:41,309
salt with Iran so give and Iran is

8
00:00:48,229 --> 00:00:45,140
talking to John McDonough a firefighter

9
00:00:50,619 --> 00:00:48,239
yes a firefighter skepticism and

10
00:00:53,689 --> 00:00:50,629
firefighting critical thinking and

11
00:00:55,490 --> 00:00:53,699
firefighting here's an interesting take

12
00:00:59,119 --> 00:00:55,500
on critical thinking I think you'll

13
00:01:02,780 --> 00:00:59,129

enjoy it after that we have dr. Rachel

14

00:01:06,020 --> 00:01:02,790

reports with a an update without wacky

15

00:01:08,210 --> 00:01:06,030

and crazy and zany freaked out friends

16

00:01:11,030 --> 00:01:08,220

at the Australian vaccination at work

17

00:01:13,609 --> 00:01:11,040

what what wacky adventure have they been

18

00:01:16,940 --> 00:01:13,619

up to this week we'll find out soon with

19

00:01:19,310 --> 00:01:16,950

dr. Aichi now i'm pleased to say just a

20

00:01:21,980 --> 00:01:19,320

couple of days ago I finally finished

21

00:01:25,910 --> 00:01:21,990

editing filming and editing the first

22

00:01:28,970 --> 00:01:25,920

skeptic zone sort of official video in

23

00:01:33,350 --> 00:01:28,980

the new how it's done series where we

24

00:01:34,790 --> 00:01:33,360

look at applied kinesiology now if you

25

00:01:36,530 --> 00:01:34,800

want to look at that video online and

26
00:01:39,050 --> 00:01:36,540
recommend it to your friends or whatever

27
00:01:41,690 --> 00:01:39,060
the case may be it starts lots of an

28
00:01:44,420 --> 00:01:41,700
interesting skeptics own people check

29
00:01:46,640 --> 00:01:44,430
out the official YouTube channel of the

30
00:01:50,180 --> 00:01:46,650
skeptic zone which is skeptic zone

31
00:01:52,430 --> 00:01:50,190
podcast and it's right there skeptics

32
00:01:56,180 --> 00:01:52,440
own podcast presents how it's done

33
00:01:57,590 --> 00:01:56,190
applied kinesiology and in fact what I'm

34
00:02:01,910 --> 00:01:57,600
going to do is I'm going to put this

35
00:02:05,539 --> 00:02:01,920
video in a day or two into the itunes

36
00:02:07,389 --> 00:02:05,549
feed so we've lucky people with iphones

37
00:02:09,770 --> 00:02:07,399
and ipod touches and things like that

38
00:02:13,670 --> 00:02:09,780

well you can just watch it on your video

39

00:02:15,589 --> 00:02:13,680

will get the video downloaded hey just

40

00:02:18,680 --> 00:02:15,599

the thing to take to the next mind-body

41

00:02:22,520 --> 00:02:18,690

wallet festival and show some people I

42

00:02:25,309 --> 00:02:22,530

hope you enjoy it it was great fun to

43

00:02:27,649 --> 00:02:25,319

make I learn the secrets trick people

44

00:02:31,550 --> 00:02:27,659

it's all there recommend it to your

45

00:02:33,690 --> 00:02:31,560

friends and see how you go oh well I'm

46

00:02:36,630 --> 00:02:33,700

going to go out myself now and grab

47

00:02:44,410 --> 00:02:36,640

dog so well I'm doing that enjoy the

48

00:02:44,420 --> 00:02:55,199

you

49

00:03:06,129 --> 00:02:57,989

let's all take this with a grain of salt

50

00:03:07,959 --> 00:03:06,139

is Iran tickets on McDonald is a

51
00:03:09,879 --> 00:03:07,969
firefighter you might think that it's

52
00:03:12,129 --> 00:03:09,889
odd to interview a firefighter for a

53
00:03:14,800 --> 00:03:12,139
skeptical podcast but there's a simple

54
00:03:16,270 --> 00:03:14,810
explanation John recently signed up for

55
00:03:19,420 --> 00:03:16,280
the Sydney skeptics meetup group and

56
00:03:21,729 --> 00:03:19,430
wrote the following in his profile I'm a

57
00:03:23,860 --> 00:03:21,739
firefighter whose job is to train others

58
00:03:25,659 --> 00:03:23,870
our problems are based on critical

59
00:03:27,550 --> 00:03:25,669
thinking and doing everything we can to

60
00:03:30,099 --> 00:03:27,560
understand the signs of our occupation

61
00:03:32,830 --> 00:03:30,109
only that keeps us safe in a dangerous

62
00:03:34,659 --> 00:03:32,840
workplace Jon the critical thinking

63
00:03:37,179 --> 00:03:34,669

firefighter welcome to the skeptics on

64

00:03:39,520 --> 00:03:37,189

podcast yeah thank you very much it's

65

00:03:41,110 --> 00:03:39,530

good to be here can you start by telling

66

00:03:44,080 --> 00:03:41,120

us a bit about what it is that you

67

00:03:47,439 --> 00:03:44,090

actually do in your day job I'm actually

68

00:03:51,220 --> 00:03:47,449

a manager of one of our training such

69

00:03:54,129 --> 00:03:51,230

sections we deal with the live-fire

70

00:03:57,189 --> 00:03:54,139

training and teaching other firefighters

71

00:03:59,860 --> 00:03:57,199

be our best help help us to fight fires

72

00:04:01,990 --> 00:03:59,870

in particular structure fires so you

73

00:04:03,969 --> 00:04:02,000

mentioned that you do live fire training

74

00:04:06,759 --> 00:04:03,979

is that as opposed to other types of

75

00:04:08,409 --> 00:04:06,769

training yes well our training so it has

76
00:04:11,259 --> 00:04:08,419
a theory component and then we have a

77
00:04:12,929 --> 00:04:11,269
practical component the practical that

78
00:04:14,949 --> 00:04:12,939
we have is we light fires inside

79
00:04:17,229 --> 00:04:14,959
shipping containers for one of a better

80
00:04:18,819 --> 00:04:17,239
word and under controlled conditions we

81
00:04:21,370 --> 00:04:18,829
try and replicate the conditions that

82
00:04:23,649 --> 00:04:21,380
we'd have in a structure fire I see and

83
00:04:25,899 --> 00:04:23,659
you also train others or did you just

84
00:04:29,649 --> 00:04:25,909
train others or deal also fight fires

85
00:04:32,709 --> 00:04:29,659
yourself well of being in the service

86
00:04:35,070 --> 00:04:32,719
since 1987 so the first I suppose three

87
00:04:38,890 --> 00:04:35,080
quarters of my career was fighting fires

88
00:04:40,779 --> 00:04:38,900

but now that I'm more senior rank I just

89

00:04:42,999 --> 00:04:40,789

trained firefighters and only turn up to

90

00:04:45,879 --> 00:04:43,009

the larger fires on what we call an

91

00:04:47,290 --> 00:04:45,889

instant management team and do you do do

92

00:04:48,909 --> 00:04:47,300

do rescue work as well because I know

93

00:04:51,820 --> 00:04:48,919

firefighters do a rescue work quite a

94

00:04:54,189 --> 00:04:51,830

lot I'll look for sure I mean once again

95

00:04:56,620 --> 00:04:54,199

for all of my operational career I

96

00:04:59,800 --> 00:04:56,630

suppose when I was in a fire station and

97

00:05:02,020 --> 00:04:59,810

actively turning out to instance rescue

98

00:05:05,020 --> 00:05:02,030

with a domestic

99

00:05:07,810 --> 00:05:05,030

rescues I suppose in motor vehicle

100

00:05:10,420 --> 00:05:07,820

accidents and also industrial rescues in

101
00:05:12,670 --> 00:05:10,430
your profile you mentioned the signs of

102
00:05:14,470 --> 00:05:12,680
your occupation can you tell me a little

103
00:05:16,390 --> 00:05:14,480
bit about what it means and if you can

104
00:05:18,040 --> 00:05:16,400
give some examples especially my

105
00:05:20,080 --> 00:05:18,050
submitter I'd be particularly interested

106
00:05:22,480 --> 00:05:20,090
if some of your examples could relate to

107
00:05:26,350 --> 00:05:22,490
the victorian bushfires because we have

108
00:05:28,270 --> 00:05:26,360
had a bit of a chat about that yeah my

109
00:05:30,880 --> 00:05:28,280
more expertise sort of extends to the

110
00:05:32,410 --> 00:05:30,890
structure fire which is a little bit

111
00:05:33,490 --> 00:05:32,420
different to the bush fires but but

112
00:05:37,450 --> 00:05:33,500
basically just to give a bit of

113
00:05:39,250 --> 00:05:37,460

background the fire service is well the

114

00:05:43,360 --> 00:05:39,260

New South Wales Fire Brigade has been

115

00:05:46,060 --> 00:05:43,370

around since 1884 when beef prior that

116

00:05:48,160 --> 00:05:46,070

we had insurance fire brigades so people

117

00:05:49,990 --> 00:05:48,170

would ensure their houses and dumb and

118

00:05:52,930 --> 00:05:50,000

then the insurance brigades would

119

00:05:54,940 --> 00:05:52,940

protect those particular houses and at

120

00:05:57,280 --> 00:05:54,950

the turn of that other century before

121

00:05:59,620 --> 00:05:57,290

last now that he saw the best way was to

122

00:06:01,660 --> 00:05:59,630

join those fire services together and

123

00:06:04,060 --> 00:06:01,670

became the New South Wales Fire Brigades

124

00:06:06,250 --> 00:06:04,070

so we've been fighting fires for well

125

00:06:08,770 --> 00:06:06,260

well over 100 years but in a lot of ways

126

00:06:12,300 --> 00:06:08,780

the fighting of the fires was was

127

00:06:14,440 --> 00:06:12,310

experiential there was in fact the

128

00:06:17,200 --> 00:06:14,450

cultures and traditions if your likes

129

00:06:19,360 --> 00:06:17,210

that are passed on in what I sort of

130

00:06:21,160 --> 00:06:19,370

described as a tribal method of teaching

131

00:06:23,410 --> 00:06:21,170

and learning where the more experienced

132

00:06:26,260 --> 00:06:23,420

member would pass on their experiences

133

00:06:27,880 --> 00:06:26,270

to the next person and we certainly you

134

00:06:30,580 --> 00:06:27,890

know articulated that in our in our

135

00:06:32,380 --> 00:06:30,590

manuals and so on but it was still the

136

00:06:34,270 --> 00:06:32,390

way with the way we viewed fire in fort

137

00:06:36,880 --> 00:06:34,280

fires hadn't really changed over the

138

00:06:39,960 --> 00:06:36,890

over the last hundred years we were to

139

00:06:42,340 --> 00:06:39,970

port fire science when we were recruited

140

00:06:44,110 --> 00:06:42,350

and certainly knew about what we call

141

00:06:45,250 --> 00:06:44,120

the fire triangle and I suppose I

142

00:06:49,420 --> 00:06:45,260

probably talked about that a bit later

143

00:06:53,070 --> 00:06:49,430

on but in a lot of ways we didn't really

144

00:06:55,180 --> 00:06:53,080

understand that fire environment and

145

00:06:57,700 --> 00:06:55,190

therefore there were many sayings like

146

00:07:00,220 --> 00:06:57,710

fire is unpredictable and I suppose in

147

00:07:02,320 --> 00:07:00,230

some ways you know it wasn't really our

148

00:07:03,460 --> 00:07:02,330

fault if we didn't perform as well as we

149

00:07:05,920 --> 00:07:03,470

would have liked or we got ourselves

150

00:07:08,230 --> 00:07:05,930

into danger because because of that

151

00:07:11,140 --> 00:07:08,240

unpredictability and basically it was

152

00:07:13,210 --> 00:07:11,150

just a bad fire that day so I mean I

153

00:07:15,460 --> 00:07:13,220

supposed to give an example of where

154

00:07:17,380 --> 00:07:15,470

we've come and to lead into

155

00:07:20,650 --> 00:07:17,390

to where my career started going in a

156

00:07:23,650 --> 00:07:20,660

different direction was I joined in 1987

157

00:07:25,600 --> 00:07:23,660

in 1991 I was still wearing the same

158

00:07:27,910 --> 00:07:25,610

uniform that I was that was being worn

159

00:07:29,290 --> 00:07:27,920

in eighteen eighty four the only

160

00:07:32,020 --> 00:07:29,300

difference being we had a plastic helmet

161

00:07:34,060 --> 00:07:32,030

instead of a metal helmet at the time it

162

00:07:36,540 --> 00:07:34,070

didn't seem strange but as I look back

163

00:07:38,980 --> 00:07:36,550

now if you look at the advancements I

164

00:07:41,890 --> 00:07:38,990

suppose human kind of made in that time

165

00:07:44,620 --> 00:07:41,900

to still be wearing and using similar

166

00:07:45,910 --> 00:07:44,630

equipment 100 years later sort of gives

167

00:07:48,760 --> 00:07:45,920

you an indication of where the fire

168

00:07:51,010 --> 00:07:48,770

service was in terms of sort of looking

169

00:07:53,500 --> 00:07:51,020

at fire differently so in the early

170

00:07:56,410 --> 00:07:53,510

2000s I I was a station officer in one

171

00:07:59,020 --> 00:07:56,420

of the the fire stations in Sydney and I

172

00:08:00,820 --> 00:07:59,030

read a book called fog attack by an

173

00:08:04,750 --> 00:08:00,830

English firefighter called Paul Grimwood

174

00:08:07,210 --> 00:08:04,760

and here he had spent time in Sweden and

175

00:08:09,730 --> 00:08:07,220

in Europe where a lot of the fire

176
00:08:11,409 --> 00:08:09,740
service personnel there are also what we

177
00:08:12,820 --> 00:08:11,419
caught fire engineers so they're done

178
00:08:15,610 --> 00:08:12,830
degrees at university in particular

179
00:08:17,260 --> 00:08:15,620
wound University in Sweden and we're

180
00:08:20,740 --> 00:08:17,270
starting to sort of apply the scientific

181
00:08:22,780 --> 00:08:20,750
methods to how they fought fires and

182
00:08:24,370 --> 00:08:22,790
they were combining me I suppose the

183
00:08:27,370 --> 00:08:24,380
science personnel with the operational

184
00:08:31,180 --> 00:08:27,380
personnel and looking at how best to

185
00:08:36,130 --> 00:08:31,190
fight fires so I found myself on a trip

186
00:08:38,350 --> 00:08:36,140
to Sweden in 2002 to look at how they

187
00:08:41,040 --> 00:08:38,360
viewed fire and some of those scientific

188
00:08:43,089 --> 00:08:41,050

methods but not in bushfires

189

00:08:45,579 --> 00:08:43,099

unfortunately there's a whole science on

190

00:08:47,470 --> 00:08:45,589

its own but in terms of how a fire

191

00:08:49,060 --> 00:08:47,480

reacts in what we call a compartment so

192

00:08:52,600 --> 00:08:49,070

every structure fire whether it be a

193

00:08:54,660 --> 00:08:52,610

factory or a smaller residence is still

194

00:08:56,829 --> 00:08:54,670

just a compartment of a certain size and

195

00:08:59,410 --> 00:08:56,839

construction with a certain fuel load

196

00:09:01,180 --> 00:08:59,420

and we now steady study very carefully

197

00:09:03,190 --> 00:09:01,190

how fire operates within those

198

00:09:04,710 --> 00:09:03,200

boundaries yeah you mentioned the fire

199

00:09:07,900 --> 00:09:04,720

triangle do you want to expand on that

200

00:09:11,380 --> 00:09:07,910

yeah every firefighter since the moment

201
00:09:13,780 --> 00:09:11,390
they they join we call it the job since

202
00:09:14,980 --> 00:09:13,790
they join the job has known about the

203
00:09:18,610 --> 00:09:14,990
fire triangle it's actually a bit more

204
00:09:20,920 --> 00:09:18,620
complex than that it's sort of but it's

205
00:09:23,800 --> 00:09:20,930
a combination of heat fuel and oxygen

206
00:09:27,910 --> 00:09:23,810
and without that triangle if you like a

207
00:09:29,319 --> 00:09:27,920
heat fuel and oxygen the fire can exist

208
00:09:31,000 --> 00:09:29,329
so when we look at our extinguishment

209
00:09:33,550 --> 00:09:31,010
methods when we look at our control

210
00:09:36,009 --> 00:09:33,560
mechanisms to keep a fire how we want it

211
00:09:38,379 --> 00:09:36,019
to be we look at controlling one of

212
00:09:41,050 --> 00:09:38,389
those three items obviously when we use

213
00:09:44,139 --> 00:09:41,060

water we try and cool the heat we're

214

00:09:46,300 --> 00:09:44,149

very careful how we allow access to a

215

00:09:48,310 --> 00:09:46,310

fire in terms of oxygen whether that's

216

00:09:50,860 --> 00:09:48,320

breaking a window or opening a door or

217

00:09:52,960 --> 00:09:50,870

what we call ventilation and then we

218

00:09:55,269 --> 00:09:52,970

also try and manage the fuel load so

219

00:09:56,949 --> 00:09:55,279

with that very simple sort of three

220

00:09:59,680 --> 00:09:56,959

sided triangle of heat fuel and oxygen

221

00:10:01,449 --> 00:09:59,690

we try and control the fire you said

222

00:10:03,850 --> 00:10:01,459

that you specialize in structural fire

223

00:10:06,280 --> 00:10:03,860

but is there a similar science to bush

224

00:10:08,500 --> 00:10:06,290

fires as well oh look without a doubt

225

00:10:10,150 --> 00:10:08,510

and and I think we still have the fire

226

00:10:13,900 --> 00:10:10,160

try but we still have heat fuel and

227

00:10:15,850 --> 00:10:13,910

oxygen in a bushfire what we what really

228

00:10:18,069 --> 00:10:15,860

makes a difference I suppose you could

229

00:10:20,110 --> 00:10:18,079

say the fuel is different it's it's

230

00:10:22,030 --> 00:10:20,120

placed in a different manner but the

231

00:10:24,579 --> 00:10:22,040

main difference from where I sit in

232

00:10:26,710 --> 00:10:24,589

terms of a structural firefighter is the

233

00:10:29,230 --> 00:10:26,720

smoke is allowed to escape in a bush

234

00:10:31,480 --> 00:10:29,240

fire or a virus fire in a structure fire

235

00:10:33,340 --> 00:10:31,490

that smoke stays within the structure or

236

00:10:36,400 --> 00:10:33,350

within the compartment and it's that

237

00:10:38,199 --> 00:10:36,410

smoke that is also a form of fuel and

238

00:10:39,759 --> 00:10:38,209

that's sort of the main difference in

239

00:10:44,439 --> 00:10:39,769

where our firefighting is now heading in

240

00:10:45,579 --> 00:10:44,449

the past we didn't view smokers fuel we

241

00:10:48,189 --> 00:10:45,589

just viewed it as something that

242

00:10:49,509 --> 00:10:48,199

inhibited in our visibility we couldn't

243

00:10:52,329 --> 00:10:49,519

breathe in it so we could not write in

244

00:10:55,300 --> 00:10:52,339

it without breathing apparatus but we

245

00:11:00,189 --> 00:10:55,310

never quite made that real link to the

246

00:11:01,780 --> 00:11:00,199

to the smoke being fuel and that's one

247

00:11:03,310 --> 00:11:01,790

of the major things over the last 10

248

00:11:05,460 --> 00:11:03,320

years we've been working very hard on

249

00:11:07,569 --> 00:11:05,470

and one of the major things that I

250

00:11:10,120 --> 00:11:07,579

looked at in Sweden when I first

251
00:11:11,949 --> 00:11:10,130
traveled there the main impetus for a

252
00:11:13,750 --> 00:11:11,959
lot of this sort of study and a change

253
00:11:16,449 --> 00:11:13,760
in the way we fight fires and i'll get

254
00:11:18,759 --> 00:11:16,459
back to i suppose the message up into my

255
00:11:22,360 --> 00:11:18,769
profile was that what we call extreme

256
00:11:24,269 --> 00:11:22,370
fire behavior or rapid fire progress has

257
00:11:26,710 --> 00:11:24,279
killed firefighters around the world and

258
00:11:28,689 --> 00:11:26,720
understanding how the fire reacts and

259
00:11:32,199 --> 00:11:28,699
what we can do about it is all about

260
00:11:34,120 --> 00:11:32,209
keeping firefighters safer and a lot of

261
00:11:36,090 --> 00:11:34,130
the research and Sweden a lot of the new

262
00:11:38,949 --> 00:11:36,100
techniques and tactics they were using

263
00:11:41,689 --> 00:11:38,959

was all based on coming to grips with

264

00:11:43,059 --> 00:11:41,699

with three I suppose extreme fire

265

00:11:46,309 --> 00:11:43,069

phenomenon and they were flashover

266

00:11:47,689 --> 00:11:46,319

backdraft and fire gasps ignitions a lot

267

00:11:50,499 --> 00:11:47,699

of people probably heard about backdraft

268

00:11:52,819 --> 00:11:50,509

from the old fire movie and so on but

269

00:11:55,220 --> 00:11:52,829

certainly flashover and fire gasps

270

00:11:57,710 --> 00:11:55,230

ignitions are ever-present danger for

271

00:12:00,319 --> 00:11:57,720

firefighters and our techniques now deal

272

00:12:02,569 --> 00:12:00,329

with that and a lot of that is based on

273

00:12:05,150 --> 00:12:02,579

a firefighter having the underpinning

274

00:12:06,619 --> 00:12:05,160

knowledge to anticipate that event

275

00:12:08,869 --> 00:12:06,629

occurring and then doing something about

276

00:12:10,579 --> 00:12:08,879

it is critical thinking applied only

277

00:12:12,679 --> 00:12:10,589

during training and need predefined

278

00:12:15,129 --> 00:12:12,689

procedures or firefighters also trained

279

00:12:19,159 --> 00:12:15,139

to think critically on their feet both

280

00:12:20,929 --> 00:12:19,169

its I often say to my to my trainees and

281

00:12:23,239 --> 00:12:20,939

that we do the most difficult job in the

282

00:12:25,039 --> 00:12:23,249

world and I don't think a lot of people

283

00:12:27,590 --> 00:12:25,049

sort of realize that because we work in

284

00:12:30,999 --> 00:12:27,600

an environment which is time critical we

285

00:12:33,470 --> 00:12:31,009

have a rapidly changing hostile

286

00:12:35,509 --> 00:12:33,480

environment a very dynamic environment

287

00:12:37,099 --> 00:12:35,519

so when we first arrived we have certain

288

00:12:39,349 --> 00:12:37,109

things occurring and this gets back to

289

00:12:41,150 --> 00:12:39,359

the the old saying fires unpredictable

290

00:12:43,489 --> 00:12:41,160

but of course it's not unpredictable

291

00:12:45,409 --> 00:12:43,499

it's totally predictable it has to obey

292

00:12:47,299 --> 00:12:45,419

the laws of science what is

293

00:12:49,509 --> 00:12:47,309

unpredictable is when we arrive at an

294

00:12:51,859 --> 00:12:49,519

incident we're only seeing snapshots of

295

00:12:53,449 --> 00:12:51,869

we're seeing a certain amount of the

296

00:12:55,249 --> 00:12:53,459

smoke we're seeing what color it is

297

00:12:57,049 --> 00:12:55,259

we're seeing what velocity it's coming

298

00:12:59,659 --> 00:12:57,059

from the building we're seeing how much

299

00:13:01,999 --> 00:12:59,669

flame we may have we're looking at other

300

00:13:03,460 --> 00:13:02,009

windows black and we're looking at all

301
00:13:05,299 --> 00:13:03,470
these things and what we're trying to do

302
00:13:07,009 --> 00:13:05,309
we're trying to put together how much

303
00:13:08,989 --> 00:13:07,019
fuel might be inside what the

304
00:13:11,900 --> 00:13:08,999
construction is what the building

305
00:13:13,579 --> 00:13:11,910
profile is the building profile it is

306
00:13:16,039 --> 00:13:13,589
how air may move throughout that

307
00:13:17,720 --> 00:13:16,049
structure if I open this building up in

308
00:13:20,179 --> 00:13:17,730
a certain way will that allow the fire

309
00:13:22,519 --> 00:13:20,189
to have more air and so on so we have

310
00:13:23,539 --> 00:13:22,529
but we're anything small snapshots so

311
00:13:26,599 --> 00:13:23,549
we're only seeing a very small

312
00:13:28,689 --> 00:13:26,609
percentage of the actual fire act as

313
00:13:31,759 --> 00:13:28,699

it's showing itself and it's our

314

00:13:32,989 --> 00:13:31,769

inability I suppose to to make sense of

315

00:13:35,749 --> 00:13:32,999

that that makes the fire very

316

00:13:38,119 --> 00:13:35,759

unpredictable so we have certainly in

317

00:13:39,769 --> 00:13:38,129

our procedures we have procedures in an

318

00:13:42,049 --> 00:13:39,779

underpinning knowledge which which has

319

00:13:44,629 --> 00:13:42,059

us to a size up and try to make sense of

320

00:13:46,729 --> 00:13:44,639

what the fire is telling us in a lot of

321

00:13:48,229 --> 00:13:46,739

ways we call that reading the fire we

322

00:13:50,840 --> 00:13:48,239

then have to anticipate where the fires

323

00:13:53,199 --> 00:13:50,850

heading because invariably when we start

324

00:13:55,519 --> 00:13:53,209

to put in place some sort of proactive

325

00:13:57,199 --> 00:13:55,529

firefighters in certain positions or

326

00:13:59,360 --> 00:13:57,209

or we start to sort of fight this fire

327

00:14:01,220 --> 00:13:59,370

it will have moved on from where it was

328

00:14:02,809 --> 00:14:01,230

before and some of the things that we do

329

00:14:06,499 --> 00:14:02,819

may may cause it to move in certain

330

00:14:08,059 --> 00:14:06,509

directions traditionally this sort of

331

00:14:11,269 --> 00:14:08,069

very much standard operational procedure

332

00:14:13,939 --> 00:14:11,279

type of setup as mean that firefighters

333

00:14:16,639 --> 00:14:13,949

have sometimes become I suppose like

334

00:14:18,559 --> 00:14:16,649

robots in that we will check out our

335

00:14:20,360 --> 00:14:18,569

checklist I'll safety checklist and

336

00:14:21,829 --> 00:14:20,370

we'll do what we do in certain

337

00:14:24,319 --> 00:14:21,839

circumstances because that's what we've

338

00:14:26,629 --> 00:14:24,329

done before but one of the key things in

339

00:14:28,460 --> 00:14:26,639

the last ten years is that we are

340

00:14:31,009 --> 00:14:28,470

training firefighters to be more

341

00:14:32,780 --> 00:14:31,019

critical thinkers to be more flexible to

342

00:14:35,689 --> 00:14:32,790

work outside the square our building

343

00:14:38,449 --> 00:14:35,699

construction now our type of fuels the

344

00:14:40,460 --> 00:14:38,459

type of fires we fight now require this

345

00:14:43,069 --> 00:14:40,470

type of thinking it's sort of our

346

00:14:45,290 --> 00:14:43,079

training and element we use it we look

347

00:14:46,989 --> 00:14:45,300

on as toolboxes and it's up to the

348

00:14:49,400 --> 00:14:46,999

firefighter to select the best tool

349

00:14:50,840 --> 00:14:49,410

given his underpinning knowledge or her

350

00:14:53,290 --> 00:14:50,850

underpinning knowledge and apply to the

351

00:14:56,299 --> 00:14:53,300

situation so it's a very dynamic

352

00:14:58,249 --> 00:14:56,309

situation and it's very difficult to to

353

00:14:59,720 --> 00:14:58,259

train someone and that's why we have the

354

00:15:01,670 --> 00:14:59,730

live-fire training we actually light

355

00:15:04,009 --> 00:15:01,680

around fires we put firefighters in

356

00:15:07,160 --> 00:15:04,019

those situations under controlled

357

00:15:09,860 --> 00:15:07,170

conditions and so they can experience

358

00:15:12,049 --> 00:15:09,870

that before they they actually do in a

359

00:15:15,079 --> 00:15:12,059

real sense can you tell us about 3d

360

00:15:17,299 --> 00:15:15,089

firefighting yeah well 3d firefighting

361

00:15:19,610 --> 00:15:17,309

sort of was a term sort of coined by

362

00:15:21,379 --> 00:15:19,620

core Grimwood who was the author that I

363

00:15:23,629 --> 00:15:21,389

first read before I sort of supposed

364

00:15:25,730 --> 00:15:23,639

started my journey into looking at how

365

00:15:27,170 --> 00:15:25,740

to fight fires in a different way and it

366

00:15:28,939 --> 00:15:27,180

involves I think a lot of things would

367

00:15:30,740 --> 00:15:28,949

just talked about it involves a

368

00:15:32,809 --> 00:15:30,750

firefighter looking in a three get you

369

00:15:35,150 --> 00:15:32,819

know more three-dimensional sense in the

370

00:15:37,129 --> 00:15:35,160

past we probably had a very

371

00:15:39,619 --> 00:15:37,139

straightforward mission and that was

372

00:15:42,860 --> 00:15:39,629

basically due to to put water on to the

373

00:15:44,960 --> 00:15:42,870

fire and take that heat away and quite

374

00:15:47,629 --> 00:15:44,970

often that that led to sort of a tunnel

375

00:15:49,040 --> 00:15:47,639

like view where firefighters would enter

376

00:15:50,480 --> 00:15:49,050

rapidly they would move quickly through

377

00:15:53,540 --> 00:15:50,490

the structure trying to find the source

378

00:15:54,919 --> 00:15:53,550

of the heat quite often in most fires by

379

00:15:56,329 --> 00:15:54,929

fighters are lucky to be able to see

380

00:15:59,269 --> 00:15:56,339

their hand in front of their face so you

381

00:16:02,090 --> 00:15:59,279

losing a lot of your other senses in a

382

00:16:04,280 --> 00:16:02,100

lot of ways because you're you're trying

383

00:16:05,840 --> 00:16:04,290

to access the place which is hottest to

384

00:16:08,090 --> 00:16:05,850

impact on that in the quickest amount of

385

00:16:09,150 --> 00:16:08,100

time you actually become a bit of a heat

386

00:16:11,309 --> 00:16:09,160

seeker for one a bit

387

00:16:12,660 --> 00:16:11,319

word it was very much two-dimensional it

388

00:16:14,819 --> 00:16:12,670

was very much about just that one

389

00:16:17,819 --> 00:16:14,829

mission to get that hose line in to

390

00:16:19,680 --> 00:16:17,829

attack the fire and quite often we had a

391

00:16:20,850 --> 00:16:19,690

mission running at the same time and

392

00:16:23,160 --> 00:16:20,860

that was to rescue many people that

393

00:16:25,050 --> 00:16:23,170

might be inside and quite often both of

394

00:16:27,329 --> 00:16:25,060

those missions cause the conflict in the

395

00:16:30,059 --> 00:16:27,339

thinking of the firefighter in a 3d

396

00:16:32,879 --> 00:16:30,069

sense we're looking at now at looking at

397

00:16:34,800 --> 00:16:32,889

the the compartment and a three

398

00:16:36,780 --> 00:16:34,810

dimensional sense looking at the fuel

399

00:16:38,970 --> 00:16:36,790

load looking at the surrounding

400

00:16:41,819 --> 00:16:38,980

construction and once again looking at

401
00:16:44,699 --> 00:16:41,829
that smoke and just I can't I suppose

402
00:16:47,420 --> 00:16:44,709
exaggerate more anymore the importance

403
00:16:50,189 --> 00:16:47,430
of how we now view smokin and in the

404
00:16:52,769 --> 00:16:50,199
development of a standard room fire it's

405
00:16:55,410 --> 00:16:52,779
that smoke that causes the most danger

406
00:16:57,559 --> 00:16:55,420
to five phones if we have a small fire

407
00:16:59,850 --> 00:16:57,569
in a room maybe it's damned on a bed

408
00:17:03,300 --> 00:16:59,860
maybe it's in a kitchen maybe it's on

409
00:17:05,730 --> 00:17:03,310
the stove or fire starts more in that

410
00:17:08,640 --> 00:17:05,740
case and what we have then is as that

411
00:17:10,079 --> 00:17:08,650
fire starts to grow it will burn we call

412
00:17:12,630 --> 00:17:10,089
it either burning Lenalee or burning

413
00:17:15,029 --> 00:17:12,640

richly we have a flammability range just

414

00:17:16,770 --> 00:17:15,039

like we do at explosive gases if a fire

415

00:17:18,809 --> 00:17:16,780

has plenty of oxygen there probably

416

00:17:21,809 --> 00:17:18,819

won't be much smoke it'll burn very lean

417

00:17:23,460 --> 00:17:21,819

we'll have them plenty of flame but in a

418

00:17:25,439 --> 00:17:23,470

compartment it each soon starts to run

419

00:17:27,510 --> 00:17:25,449

low on that oxygen the fire is still

420

00:17:29,370 --> 00:17:27,520

burning but the smoke will start to dark

421

00:17:31,980 --> 00:17:29,380

and it will start to be thicker and we

422

00:17:34,380 --> 00:17:31,990

call that that smoke unburned products

423

00:17:36,120 --> 00:17:34,390

of combustion this carbon is sought as

424

00:17:37,830 --> 00:17:36,130

various chemicals and that's that's

425

00:17:39,360 --> 00:17:37,840

visibly what we can see in the smoke but

426

00:17:41,760 --> 00:17:39,370

what happens that smoke is hard it will

427

00:17:43,590 --> 00:17:41,770

rise but it can't go anywhere unlike a

428

00:17:45,810 --> 00:17:43,600

bushfire so we'll start to layer back

429

00:17:49,080 --> 00:17:45,820

down and we call that the neutral plane

430

00:17:50,370 --> 00:17:49,090

and that's the layer of smoke so you

431

00:17:52,049 --> 00:17:50,380

might have heard before whenever people

432

00:17:55,200 --> 00:17:52,059

are trapped in a fire we say to get down

433

00:17:56,850 --> 00:17:55,210

low and go-go-go because down low you

434

00:17:58,760 --> 00:17:56,860

still have less seat and you will still

435

00:18:02,159 --> 00:17:58,770

have air to breathe and good visibility

436

00:18:04,260 --> 00:18:02,169

so in a in a compartment that smoke

437

00:18:06,120 --> 00:18:04,270

starts to come down and we still can

438

00:18:07,860 --> 00:18:06,130

have a relatively small fire but it's

439

00:18:11,279 --> 00:18:07,870

growing and the smoke is getting hotter

440

00:18:12,750 --> 00:18:11,289

now at about 700 800 degrees that smoke

441

00:18:16,560 --> 00:18:12,760

comes into its auto-ignition temperature

442

00:18:18,990 --> 00:18:16,570

and it will reburn so as that room

443

00:18:20,549 --> 00:18:19,000

reaches that temperature the all of the

444

00:18:22,350 --> 00:18:20,559

smoke inside the room which meant now

445

00:18:22,950 --> 00:18:22,360

may only be a couple of feet off the

446

00:18:24,930 --> 00:18:22,960

ground

447

00:18:27,149 --> 00:18:24,940

we'll then burst into flame and that's

448

00:18:28,560 --> 00:18:27,159

what we call flash over and from that

449

00:18:29,940 --> 00:18:28,570

point then the room is then fully

450

00:18:31,560 --> 00:18:29,950

involved and you're talking at

451
00:18:34,560 --> 00:18:31,570
temperatures above a thousand degrees

452
00:18:37,200 --> 00:18:34,570
and that can happen very rapidly in a

453
00:18:39,060 --> 00:18:37,210
matter of seconds so we can have

454
00:18:41,159 --> 00:18:39,070
firefighters entering in structure we

455
00:18:43,260 --> 00:18:41,169
have a fire burning we have hot smoke

456
00:18:45,480 --> 00:18:43,270
filling the room and the heat is

457
00:18:47,519 --> 00:18:45,490
increasing we may also have a fire that

458
00:18:49,080 --> 00:18:47,529
is low on oxygen at this stage here so

459
00:18:50,940 --> 00:18:49,090
the fire is not burning quite as well as

460
00:18:52,380 --> 00:18:50,950
it should the actions of the

461
00:18:55,169 --> 00:18:52,390
firefighters even entering that

462
00:18:58,409 --> 00:18:55,179
structure there now providing a fresh

463
00:18:59,940 --> 00:18:58,419

air way the fire can now intensify it

464

00:19:02,039 --> 00:18:59,950

will get bigger the smoke will get

465

00:19:04,950 --> 00:19:02,049

hotter and once again we can bring on

466

00:19:07,080 --> 00:19:04,960

that flash over so what we do now is we

467

00:19:08,880 --> 00:19:07,090

have firefighters and this is something

468

00:19:11,510 --> 00:19:08,890

we never did in the past we now actively

469

00:19:14,220 --> 00:19:11,520

try and cool that gas layer we use our

470

00:19:17,580 --> 00:19:14,230

specially designed nozzles so put up a

471

00:19:19,769 --> 00:19:17,590

very fine water fog into those hot gases

472

00:19:21,810 --> 00:19:19,779

and if we can keep those hot gases below

473

00:19:23,700 --> 00:19:21,820

the auto-ignition temperature we can

474

00:19:26,070 --> 00:19:23,710

stop the room from flashing over and

475

00:19:28,320 --> 00:19:26,080

stop this rapid fire progress so

476

00:19:30,299 --> 00:19:28,330

firefighters in the past and for most of

477

00:19:32,279 --> 00:19:30,309

my career we would always hold our water

478

00:19:34,740 --> 00:19:32,289

we would never use our water until we

479

00:19:37,289 --> 00:19:34,750

found the actual fire because we used

480

00:19:39,810 --> 00:19:37,299

our water indiscriminately we ran the

481

00:19:41,960 --> 00:19:39,820

risk of steaming yourself or lessening

482

00:19:44,039 --> 00:19:41,970

visibility and making conditions worse

483

00:19:45,480 --> 00:19:44,049

and and this is where the the

484

00:19:47,310 --> 00:19:45,490

fundamental change has been in

485

00:19:48,960 --> 00:19:47,320

firefighting training and this was

486

00:19:51,149 --> 00:19:48,970

started by the Swedes in the early 80s

487

00:19:53,970 --> 00:19:51,159

where they actively use their their

488

00:19:56,250 --> 00:19:53,980

water before they reach the fire to cool

489

00:19:58,610 --> 00:19:56,260

the hot fire gases and stop the

490

00:20:01,769 --> 00:19:58,620

progression of the fire to full

491

00:20:05,490 --> 00:20:01,779

development and install flash over from

492

00:20:07,740 --> 00:20:05,500

occurring so our firefighters now sort

493

00:20:10,080 --> 00:20:07,750

of make that those decisions on the run

494

00:20:11,639 --> 00:20:10,090

they assess they assess a fire they

495

00:20:13,649 --> 00:20:11,649

assess whether it wants more oxygen and

496

00:20:15,720 --> 00:20:13,659

how to deal with that if they suspect

497

00:20:17,370 --> 00:20:15,730

that the fire wanted more air and most

498

00:20:19,440 --> 00:20:17,380

fires we go to do because once again

499

00:20:21,720 --> 00:20:19,450

they're enclosed in the structure they

500

00:20:23,639 --> 00:20:21,730

will actually do what we call anti

501
00:20:26,220 --> 00:20:23,649
ventilation they will close doors behind

502
00:20:27,960 --> 00:20:26,230
them they will keep that fire that part

503
00:20:32,010 --> 00:20:27,970
of the fire triangle the oxygen side of

504
00:20:33,600 --> 00:20:32,020
it suppressed so regardless of how hot

505
00:20:36,360 --> 00:20:33,610
the fire gases are they won't be within

506
00:20:37,260 --> 00:20:36,370
their flammable range so constantly our

507
00:20:38,250 --> 00:20:37,270
firefighters law

508
00:20:40,560 --> 00:20:38,260
are applying their underpinning

509
00:20:42,180 --> 00:20:40,570
knowledge based on science and the

510
00:20:45,210 --> 00:20:42,190
surrounding environment and how can they

511
00:20:47,760 --> 00:20:45,220
can manipulate that to ensure the fire

512
00:20:49,440 --> 00:20:47,770
stays under their control and that's a

513
00:20:51,600 --> 00:20:49,450

very very powerful thing which we never

514

00:20:53,640 --> 00:20:51,610

were able to do in the past without a

515

00:20:55,710 --> 00:20:53,650

complete understanding of how the fire

516

00:20:58,020 --> 00:20:55,720

operates and that's where the the

517

00:20:59,970 --> 00:20:58,030

critical thinking and the fire science

518

00:21:01,290 --> 00:20:59,980

and fire behavior comes in do you find

519

00:21:02,850 --> 00:21:01,300

that there are differences in approach

520

00:21:04,980 --> 00:21:02,860

between firefighters in different

521

00:21:07,680 --> 00:21:04,990

countries I look without a doubt it's

522

00:21:09,720 --> 00:21:07,690

sort of them you know I've trained and

523

00:21:13,050 --> 00:21:09,730

lectured in in Europe Great Britain and

524

00:21:15,060 --> 00:21:13,060

also in the States and in Asia the

525

00:21:17,100 --> 00:21:15,070

American firefighters are probably the

526

00:21:19,020 --> 00:21:17,110

most different it is funny in the fact

527

00:21:20,520 --> 00:21:19,030

that the different we're probably ninety

528

00:21:22,410 --> 00:21:20,530

five percent of like and five percent

529

00:21:25,590 --> 00:21:22,420

different because we do do the same job

530

00:21:26,760 --> 00:21:25,600

our traditions are very similar but we

531

00:21:28,110 --> 00:21:26,770

do have different ways in which we

532

00:21:30,120 --> 00:21:28,120

approach at the the building

533

00:21:31,920 --> 00:21:30,130

construction in the states is different

534

00:21:33,390 --> 00:21:31,930

without getting too technical they have

535

00:21:34,800 --> 00:21:33,400

a lot of tenement buildings they have a

536

00:21:37,050 --> 00:21:34,810

lot of timber buildings which are over a

537

00:21:38,940 --> 00:21:37,060

cup of couple of stories high so they

538

00:21:40,680 --> 00:21:38,950

tend to use different tactics they tend

539

00:21:43,530 --> 00:21:40,690

to be more aggressive in these buildings

540

00:21:46,080 --> 00:21:43,540

they tend to have a larger life risk the

541

00:21:48,780 --> 00:21:46,090

buildings most of our buildings that are

542

00:21:50,700 --> 00:21:48,790

medium rise to high rise of what we call

543

00:21:54,150 --> 00:21:50,710

design to survive the burn out of the

544

00:21:56,880 --> 00:21:54,160

contents so it stays a contents fire and

545

00:21:59,370 --> 00:21:56,890

the structure itself doesn't burn so

546

00:22:01,170 --> 00:21:59,380

they're your glass and steel your double

547

00:22:02,700 --> 00:22:01,180

brick construction in the states where

548

00:22:04,200 --> 00:22:02,710

you have a lot of timber buildings it

549

00:22:06,150 --> 00:22:04,210

becomes a structure fire very quickly

550

00:22:08,510 --> 00:22:06,160

and the life risk is enormous so they've

551

00:22:11,400 --> 00:22:08,520

devised different ways of doing that

552

00:22:14,160 --> 00:22:11,410

America is a very different fire service

553

00:22:16,230 --> 00:22:14,170

model they have over 30,000 separate

554

00:22:18,600 --> 00:22:16,240

five services over there in Australia we

555

00:22:20,580 --> 00:22:18,610

have a level 11 separate spire services

556

00:22:22,050 --> 00:22:20,590

they have a huge volunteer base where

557

00:22:24,060 --> 00:22:22,060

we're training probably isn't as good as

558

00:22:26,400 --> 00:22:24,070

it should be and they also there's this

559

00:22:28,560 --> 00:22:26,410

very gung-ho attitude when I was in the

560

00:22:30,630 --> 00:22:28,570

States last I remember if I if I to

561

00:22:32,160 --> 00:22:30,640

telling me that the the fire service is

562

00:22:36,210 --> 00:22:32,170

a hundred years of tradition unimpeded

563

00:22:37,950 --> 00:22:36,220

by progress so which which is it is very

564

00:22:39,360 --> 00:22:37,960

true and it really was my own

565

00:22:41,700 --> 00:22:39,370

experiences up until a couple of years

566

00:22:43,560 --> 00:22:41,710

ago but that the last 10 to 15 years

567

00:22:45,900 --> 00:22:43,570

certainly in Australia the fire services

568

00:22:47,220 --> 00:22:45,910

have had moved very much towards

569

00:22:50,040 --> 00:22:47,230

critical thinking and a science-based

570

00:22:51,230 --> 00:22:50,050

approach whereas in the States I suppose

571

00:22:55,200 --> 00:22:51,240

it's very traditional

572

00:22:58,110 --> 00:22:55,210

approach that it's okay to be 100 years

573

00:22:59,520 --> 00:22:58,120

of unimpeded by progress and they hold

574

00:23:02,700 --> 00:22:59,530

that very dear to their hearts in some

575

00:23:04,320 --> 00:23:02,710

ways and in some ways the service it's

576

00:23:06,420 --> 00:23:04,330

very easy for that to occur because

577

00:23:09,120 --> 00:23:06,430

there's a lot of ownership I suppose

578

00:23:10,110 --> 00:23:09,130

when people do things hard they they put

579

00:23:11,910 --> 00:23:10,120

their lives at risk in some

580

00:23:15,210 --> 00:23:11,920

circumstances it's very hard to change

581

00:23:16,830 --> 00:23:15,220

if you've been successful and I say that

582

00:23:18,870 --> 00:23:16,840

no builded comments because some of the

583

00:23:20,340 --> 00:23:18,880

problems when the fire service is for

584

00:23:22,320 --> 00:23:20,350

example I've never but every fire I've

585

00:23:24,510 --> 00:23:22,330

been to us out it eventually goes out

586

00:23:27,150 --> 00:23:24,520

sometimes it's very difficult to gauge

587

00:23:29,790 --> 00:23:27,160

how successful you were if the fire goes

588

00:23:31,160 --> 00:23:29,800

out no one's injured so I think in the

589

00:23:35,240 --> 00:23:31,170

past we haven't been as good at

590

00:23:37,980 --> 00:23:35,250

debriefing and validating our own

591

00:23:39,900 --> 00:23:37,990

techniques and experiences because it's

592

00:23:42,630 --> 00:23:39,910

been so easy to blame the fire and say

593

00:23:45,180 --> 00:23:42,640

it was just a bad fire that day so in

594

00:23:47,580 --> 00:23:45,190

the US they tend to be some brigades a

595

00:23:49,890 --> 00:23:47,590

very very proactive and very modern and

596

00:23:52,260 --> 00:23:49,900

cutting-edge and others are very very

597

00:23:53,790 --> 00:23:52,270

traditional in Europe once again

598

00:23:56,850 --> 00:23:53,800

traditions are very important but

599

00:23:59,310 --> 00:23:56,860

overall and probably led by Scandinavia

600

00:24:01,950 --> 00:23:59,320

and the UK very cutting edge in their

601
00:24:04,230 --> 00:24:01,960
technique in their understanding in

602
00:24:06,630 --> 00:24:04,240
their training of fire science and fire

603
00:24:09,390 --> 00:24:06,640
behavior and in Australia we're probably

604
00:24:12,570 --> 00:24:09,400
somewhere in between but we are very

605
00:24:14,940 --> 00:24:12,580
much a British a traditions lie with the

606
00:24:16,530 --> 00:24:14,950
British fire service so we tend to be

607
00:24:18,150 --> 00:24:16,540
very proactive in that area as well

608
00:24:20,160 --> 00:24:18,160
among people who work in dangerous

609
00:24:22,200 --> 00:24:20,170
professions there is often a high level

610
00:24:24,270 --> 00:24:22,210
of superstition do you find that that's

611
00:24:26,100 --> 00:24:24,280
true among your colleagues and do you

612
00:24:27,930 --> 00:24:26,110
have any personal superstitions related

613
00:24:30,630 --> 00:24:27,940

to your profession interesting

614

00:24:33,630 --> 00:24:30,640

interesting question but contended agree

615

00:24:34,920 --> 00:24:33,640

with you on that I suppose there are

616

00:24:36,990 --> 00:24:34,930

some firefighters that that are

617

00:24:40,440 --> 00:24:37,000

superstitious I think a lot of what we

618

00:24:41,790 --> 00:24:40,450

did was as you kept on doing it you'd

619

00:24:44,070 --> 00:24:41,800

build experience as I suppose in some

620

00:24:46,080 --> 00:24:44,080

ways before we really concentrated on

621

00:24:48,600 --> 00:24:46,090

the underpinning science and fire

622

00:24:50,970 --> 00:24:48,610

behavior we tended to look at a fire and

623

00:24:53,700 --> 00:24:50,980

say that doesn't look good or or say

624

00:24:55,830 --> 00:24:53,710

things like I just knew it was it this

625

00:24:57,570 --> 00:24:55,840

wasn't going to turn out well or I

626
00:24:59,250 --> 00:24:57,580
looked at it and just knew it wasn't

627
00:25:02,760 --> 00:24:59,260
right but we had trouble articulating

628
00:25:04,840 --> 00:25:02,770
that just from our experiences we we

629
00:25:06,910 --> 00:25:04,850
would sort of say things like that and

630
00:25:09,250 --> 00:25:06,920
and we would maybe anticipate things

631
00:25:11,230 --> 00:25:09,260
before they happen but still not quite

632
00:25:13,390 --> 00:25:11,240
understand why they happened because of

633
00:25:16,060 --> 00:25:13,400
just just from experience and just from

634
00:25:17,680 --> 00:25:16,070
seeing things occur in the past but in a

635
00:25:20,290 --> 00:25:17,690
lot of ways I think I think firefighters

636
00:25:23,320 --> 00:25:20,300
are probably quite the opposite they can

637
00:25:26,890 --> 00:25:23,330
be very practical people they tend to

638
00:25:28,810 --> 00:25:26,900

trust I suppose trust more their own

639

00:25:31,030 --> 00:25:28,820

abilities rather than leave things to

640

00:25:32,650 --> 00:25:31,040

fate or four in a bit of a word they

641

00:25:35,470 --> 00:25:32,660

tend to trust in their their comrades

642

00:25:37,690 --> 00:25:35,480

and yeah just very practical people so I

643

00:25:40,390 --> 00:25:37,700

suppose that that offsets the the

644

00:25:43,150 --> 00:25:40,400

superstitious angle me in some ways but

645

00:25:44,680 --> 00:25:43,160

interesting question but um I don't

646

00:25:46,330 --> 00:25:44,690

think we were over-represented in the

647

00:25:48,610 --> 00:25:46,340

superstitious side of things and like i

648

00:25:51,190 --> 00:25:48,620

said i think the practical nature of the

649

00:25:53,080 --> 00:25:51,200

job probably overrides them all up in a

650

00:25:54,970 --> 00:25:53,090

lot of cases John McDonald thank you

651
00:25:56,680 --> 00:25:54,980
very much for joining me on the skeptics

652
00:26:08,110 --> 00:25:56,690
on podcast No thank you very much for

653
00:26:10,540 --> 00:26:08,120
having me it was great hi I'm dr. ginger

654
00:26:13,360 --> 00:26:10,550
Campbell I started the brain science

655
00:26:16,150 --> 00:26:13,370
podcast in December 2006 with the

656
00:26:18,670 --> 00:26:16,160
tagline the show for everyone who has a

657
00:26:21,790 --> 00:26:18,680
brain because you don't need a PhD to

658
00:26:25,180 --> 00:26:21,800
enjoy my podcast all you need is

659
00:26:28,060 --> 00:26:25,190
curiosity about how our brains make us

660
00:26:31,000 --> 00:26:28,070
who we are the brain science podcast is

661
00:26:33,460 --> 00:26:31,010
not a self-help show but understanding

662
00:26:36,550 --> 00:26:33,470
how the brain works will give you useful

663
00:26:39,490 --> 00:26:36,560

insights into your own behavior and the

664

00:26:41,320 --> 00:26:39,500

behavior of others on the show I talk

665

00:26:44,280 --> 00:26:41,330

about the latest books about the brain

666

00:26:46,720 --> 00:26:44,290

and I interview leading scientists of

667

00:26:49,540 --> 00:26:46,730

course I would love to be discovered by

668

00:26:52,690 --> 00:26:49,550

NPR but until then you can find the

669

00:27:04,580 --> 00:26:52,700

brain science podcast in iTunes and at

670

00:27:13,500 --> 00:27:07,980

now it's time for dr. Rachel reports

671

00:27:16,500 --> 00:27:13,510

with dr. Rachel Dunlop hello listeners

672

00:27:18,720 --> 00:27:16,510

and welcome to dr. Richie reports well

673

00:27:21,600 --> 00:27:18,730

the avian or Australian vaccination

674

00:27:23,580 --> 00:27:21,610

network are not happy it seems another

675

00:27:25,980 --> 00:27:23,590

venue has pulled the plug on them at the

676
00:27:29,040 --> 00:27:25,990
last minute this time the Uniting Church

677
00:27:31,710 --> 00:27:29,050
in the city of Perth withdrew access to

678
00:27:33,570 --> 00:27:31,720
their venue for a scheduled seminar due

679
00:27:36,630 --> 00:27:33,580
to be held in Perth on Friday night

680
00:27:38,580 --> 00:27:36,640
which is tonight according to the church

681
00:27:40,440 --> 00:27:38,590
there were concerns raised by a number

682
00:27:42,690 --> 00:27:40,450
of people including prominent church

683
00:27:44,880 --> 00:27:42,700
members who are experts in the field of

684
00:27:47,130 --> 00:27:44,890
ethics and Public Health that the

685
00:27:49,050 --> 00:27:47,140
message promoted by the avian is not in

686
00:27:51,750 --> 00:27:49,060
line with the ethos and values of the

687
00:27:53,700 --> 00:27:51,760
Uniting Church in Australia Meryl Dory

688
00:27:56,160 --> 00:27:53,710

who is the immediate past president and

689

00:27:58,170 --> 00:27:56,170

now media spokesperson received

690

00:28:00,840 --> 00:27:58,180

notification as she was about to board a

691

00:28:05,630 --> 00:28:00,850

plane to travel from Brisbane to Perth a

692

00:28:08,100 --> 00:28:05,640

five hour and 3600 kilometre journey

693

00:28:10,260 --> 00:28:08,110

according to a newsletter sent after the

694

00:28:12,330 --> 00:28:10,270

event mrs. story was queuing to catch

695

00:28:14,610 --> 00:28:12,340

her flight when the mission development

696

00:28:17,280 --> 00:28:14,620

officer for the Uniting Church called to

697

00:28:19,530 --> 00:28:17,290

break the news with less than 24 hours

698

00:28:21,360 --> 00:28:19,540

to go before the scheduled event and no

699

00:28:23,820 --> 00:28:21,370

venue for the hundred plus people

700

00:28:25,980 --> 00:28:23,830

already booked mrs. storey had no choice

701

00:28:27,660 --> 00:28:25,990

but to forfeit her plane tickets valued

702

00:28:31,950 --> 00:28:27,670

at seven hundred and fifty dollars and

703

00:28:34,650 --> 00:28:31,960

returned home and she is livid now the

704

00:28:36,330 --> 00:28:34,660

avian organised the current seminar to

705

00:28:38,580 --> 00:28:36,340

capitalize on the recent spate of

706

00:28:40,530 --> 00:28:38,590

adverse reactions to the seasonal flu

707

00:28:42,840 --> 00:28:40,540

vaccine in children under five years of

708

00:28:45,000 --> 00:28:42,850

age the vaccination program was

709

00:28:48,060 --> 00:28:45,010

suspended several weeks ago and remain

710

00:28:51,510 --> 00:28:48,070

so following reports of high fevers and

711

00:28:53,700 --> 00:28:51,520

febrile convulsions initial thoughts

712

00:28:56,160 --> 00:28:53,710

that a bad batch was to blame have since

713

00:28:58,320 --> 00:28:56,170

been discounted following testing and

714

00:29:02,160 --> 00:28:58,330

information that more than one batch was

715

00:29:04,260 --> 00:29:02,170

involved the vaccine manufacturers CSL

716

00:29:07,920 --> 00:29:04,270

and independent bodies are continuing to

717

00:29:10,350 --> 00:29:07,930

investigate but to date australia wide

718

00:29:11,490 --> 00:29:10,360

over 400 reactions have been reported in

719

00:29:13,710 --> 00:29:11,500

five states

720

00:29:17,160 --> 00:29:13,720

the majority of which occurred in perth

721

00:29:19,500 --> 00:29:17,170

western australia most children have

722

00:29:21,600 --> 00:29:19,510

recovered but one child in queensland

723

00:29:24,600 --> 00:29:21,610

died 12 hours after receiving the

724

00:29:26,700 --> 00:29:24,610

vaccine the coroner found no evidence to

725

00:29:30,300 --> 00:29:26,710

implicate the vaccine but investigations

726
00:29:32,090 --> 00:29:30,310
are ongoing yet despite this mrs. dory

727
00:29:35,460 --> 00:29:32,100
states in her blurb for the seminar

728
00:29:37,350 --> 00:29:35,470
quote to date more than 300 serious

729
00:29:39,090 --> 00:29:37,360
reactions to the current seasonal flu

730
00:29:41,370 --> 00:29:39,100
shot have been reported in children

731
00:29:43,380 --> 00:29:41,380
under the age of five with one child

732
00:29:46,980 --> 00:29:43,390
known to have died within hours of being

733
00:29:50,280 --> 00:29:46,990
vaccinated there is no mention that the

734
00:29:52,110 --> 00:29:50,290
coroner has found no evidence of this so

735
00:29:54,720 --> 00:29:52,120
the avn seminar which has since been

736
00:29:57,720 --> 00:29:54,730
cancelled was called flu vaccines and

737
00:30:00,450 --> 00:29:57,730
informed choice and was to cover quote

738
00:30:02,250 --> 00:30:00,460

this talk examines the risk of flu to

739

00:30:04,230 --> 00:30:02,260

children the effectiveness of the

740

00:30:05,940 --> 00:30:04,240

vaccine and the additional risks to

741

00:30:09,450 --> 00:30:05,950

children's health of adding another

742

00:30:11,310 --> 00:30:09,460

vaccine to the childhood schedule in her

743

00:30:13,710 --> 00:30:11,320

talk Meryl Dorie will discuss how

744

00:30:16,260 --> 00:30:13,720

vaccines are intended to work and why it

745

00:30:17,790 --> 00:30:16,270

is that they often don't she will talk

746

00:30:20,100 --> 00:30:17,800

about the known side effects of

747

00:30:21,660 --> 00:30:20,110

childhood and adult shots and reveal

748

00:30:23,670 --> 00:30:21,670

that according to the Australian

749

00:30:25,590 --> 00:30:23,680

Government as few as one percent of

750

00:30:27,330 --> 00:30:25,600

vaccine reactions ever get reported

751
00:30:30,660 --> 00:30:27,340
leading to a belief that they are

752
00:30:32,490 --> 00:30:30,670
perfectly safe unquote but one of the

753
00:30:33,900 --> 00:30:32,500
criticisms that has been leveled at the

754
00:30:37,290 --> 00:30:33,910
government is the question of how

755
00:30:40,440 --> 00:30:37,300
thoroughly the current 2010 seasonal flu

756
00:30:42,450 --> 00:30:40,450
triple antigen has been tested this

757
00:30:46,800 --> 00:30:42,460
year's vaccine contains three viral

758
00:30:50,490 --> 00:30:46,810
components the h1n1 the h3n2 and the be

759
00:30:51,990 --> 00:30:50,500
Brisbane strain lan bar who is the

760
00:30:54,060 --> 00:30:52,000
deputy director of the World Health

761
00:30:56,460 --> 00:30:54,070
Organization's influenza Center in

762
00:30:58,740 --> 00:30:56,470
Melbourne was interviewed on Monday

763
00:31:00,270 --> 00:30:58,750

April the 26th about the question of

764

00:31:02,520 --> 00:31:00,280

whether the current seasonal flu

765

00:31:05,040 --> 00:31:02,530

combination has been tested in clinical

766

00:31:08,430 --> 00:31:05,050

trials here's an excerpt from that

767

00:31:11,160 --> 00:31:08,440

interview played on ABC radio in

768

00:31:12,810 --> 00:31:11,170

Australia we don't require that the

769

00:31:14,230 --> 00:31:12,820

points of vaccine the seasonal vaccine

770

00:31:15,950 --> 00:31:14,240

is

771

00:31:18,799 --> 00:31:15,960

combinations but they have done that

772

00:31:21,019 --> 00:31:18,809

overseas so they have tested in fact

773

00:31:24,980 --> 00:31:21,029

giving a full seasonal vaccine with the

774

00:31:27,169 --> 00:31:24,990

swine flu so for vaccines at once if you

775

00:31:29,659 --> 00:31:27,179

like and there were no untoward effects

776

00:31:31,669 --> 00:31:29,669

there so I think there's a high

777

00:31:34,190 --> 00:31:31,679

expectation that the combination of

778

00:31:35,930 --> 00:31:34,200

these three viruses will be no different

779

00:31:38,360 --> 00:31:35,940

from any other three viruses which we

780

00:31:41,060 --> 00:31:38,370

include every year without doing for

781

00:31:43,399 --> 00:31:41,070

more safety testing which takes quite a

782

00:31:45,049 --> 00:31:43,409

period of time and is that extremely

783

00:31:46,879 --> 00:31:45,059

expensive and time-consuming so in your

784

00:31:49,279 --> 00:31:46,889

opinion the fact that it is a

785

00:31:51,769 --> 00:31:49,289

combination vaccine would have nothing

786

00:31:53,990 --> 00:31:51,779

to do with this situation that we've got

787

00:31:56,919 --> 00:31:54,000

at the moment as far as you know now I

788

00:31:59,269 --> 00:31:56,929

think that's unlikely to be a factor

789

00:32:02,440 --> 00:31:59,279

certainly all viruses are slightly

790

00:32:05,779 --> 00:32:02,450

different but in terms of how they're

791

00:32:07,840 --> 00:32:05,789

produced in in the laboratory and tested

792

00:32:10,159 --> 00:32:07,850

in laboratory and then made in the

793

00:32:13,129 --> 00:32:10,169

commercial scale vaccine production

794

00:32:14,269 --> 00:32:13,139

areas they're all investigating

795

00:32:17,389 --> 00:32:14,279

individually for any particular

796

00:32:19,009 --> 00:32:17,399

differences in those viruses which might

797

00:32:23,120 --> 00:32:19,019

lead to some of these things that we're

798

00:32:25,820 --> 00:32:23,130

seeing currently such as fever so I

799

00:32:27,799 --> 00:32:25,830

think that it's unlikely but I guess we

800

00:32:30,320 --> 00:32:27,809

have to wait and see on analysis of

801
00:32:32,080 --> 00:32:30,330
these particular batches is it possible

802
00:32:34,370 --> 00:32:32,090
that it might have just been a bad match

803
00:32:36,169 --> 00:32:34,380
well I think there is multiple batches

804
00:32:38,210 --> 00:32:36,179
involved so I think that's unlikely

805
00:32:39,769 --> 00:32:38,220
again if it was a single batch than you

806
00:32:41,269 --> 00:32:39,779
might think that might be the case that

807
00:32:43,759 --> 00:32:41,279
if multiple batches are involved in

808
00:32:46,789 --> 00:32:43,769
that's less likely I think but again we

809
00:32:48,710 --> 00:32:46,799
still need to wait so every year CS

810
00:32:50,810 --> 00:32:48,720
Elle's flu vax vaccine contains

811
00:32:53,120 --> 00:32:50,820
fragments of three different types of

812
00:32:55,009 --> 00:32:53,130
influenza virus as recommended by the

813
00:32:56,899 --> 00:32:55,019

Therapeutic Goods Administration and

814

00:32:58,669 --> 00:32:56,909

this depends on the strains of

815

00:33:02,509 --> 00:32:58,679

infectious flu in the environment at the

816

00:33:04,850 --> 00:33:02,519

time in addition flu viruses mutate from

817

00:33:06,529 --> 00:33:04,860

season to season so vaccines become less

818

00:33:09,409 --> 00:33:06,539

effective and need to be modified to

819

00:33:11,629 --> 00:33:09,419

keep up with the current mutants the flu

820

00:33:13,820 --> 00:33:11,639

vaccine is tried and true technology

821

00:33:15,919 --> 00:33:13,830

only changing for the type of viral

822

00:33:18,649 --> 00:33:15,929

components year to year and there has

823

00:33:20,690 --> 00:33:18,659

not been a problem before but flu

824

00:33:23,360 --> 00:33:20,700

vaccines are tested in Australia in

825

00:33:27,680 --> 00:33:23,370

clinical trials just this combination

826

00:33:30,649 --> 00:33:27,690

has not flu vax jr. was tested in two

827

00:33:32,659 --> 00:33:30,659

five and 2006 and this showed a very

828

00:33:36,139 --> 00:33:32,669

good safety and efficacy profile in

829

00:33:38,180 --> 00:33:36,149

clinical trials in a group of 298

830

00:33:40,340 --> 00:33:38,190

children there were no reports of

831

00:33:42,259 --> 00:33:40,350

serious adverse events during the

832

00:33:45,409 --> 00:33:42,269

vaccination period or seven days

833

00:33:48,019 --> 00:33:45,419

following pan vax jr. which is the

834

00:33:51,379 --> 00:33:48,029

thimerosal free h1n one vaccine for

835

00:33:53,810 --> 00:33:51,389

children was tested in a 2009 trial and

836

00:33:55,940 --> 00:33:53,820

showed approximately thirty percent mild

837

00:33:58,340 --> 00:33:55,950

to moderate adverse events in children

838

00:34:01,430 --> 00:33:58,350

under the age of eight the clinical

839

00:34:03,470 --> 00:34:01,440

trial data was evaluated by the TGA and

840

00:34:06,379 --> 00:34:03,480

reviewed by the expert advisory

841

00:34:08,809 --> 00:34:06,389

committee on prescription medicines pan

842

00:34:11,960 --> 00:34:08,819

box was approved by the TGA on december

843

00:34:16,180 --> 00:34:11,970

three 2009 and the national immunization

844

00:34:18,740 --> 00:34:16,190

program began on September the 30th 2009

845

00:34:20,839 --> 00:34:18,750

since then the TGA has been closely

846

00:34:24,139 --> 00:34:20,849

monitoring any side effects from the use

847

00:34:26,659 --> 00:34:24,149

of the vaccine and to date approximately

848

00:34:29,899 --> 00:34:26,669

six million doses of pan vacs have been

849

00:34:31,879 --> 00:34:29,909

distributed in Australia and a total of

850

00:34:35,359 --> 00:34:31,889

twelve hundred and eighty nine adverse

851
00:34:37,399 --> 00:34:35,369
events have been reported to the TGA but

852
00:34:39,349 --> 00:34:37,409
importantly it has not yet been clearly

853
00:34:41,349 --> 00:34:39,359
established if these adverse events

854
00:34:44,059 --> 00:34:41,359
reported in Perth Western Australia

855
00:34:47,030 --> 00:34:44,069
constitute a true spike in adverse

856
00:34:49,490 --> 00:34:47,040
events the federal government's chief

857
00:34:51,980 --> 00:34:49,500
medical officer professor Jim Bishop

858
00:34:53,809 --> 00:34:51,990
said some three million doses of the

859
00:34:56,240 --> 00:34:53,819
seasonal flu vaccine have gone out this

860
00:34:58,700 --> 00:34:56,250
year with up to two-thirds sent to Perth

861
00:35:01,099 --> 00:34:58,710
Western Australia this could be a

862
00:35:03,140 --> 00:35:01,109
partial explanation as to why the state

863
00:35:06,170 --> 00:35:03,150

has experienced a much higher rate of

864

00:35:09,790 --> 00:35:06,180

complications normally expected in one

865

00:35:12,859 --> 00:35:09,800

out of every 1,000 to 10,000 cases and

866

00:35:15,200 --> 00:35:12,869

also Western Australia now provides the

867

00:35:17,390 --> 00:35:15,210

seasonal flu shot for free to children

868

00:35:19,640 --> 00:35:17,400

under five whereas the rest of the

869

00:35:21,470 --> 00:35:19,650

country doesn't the initiative to

870

00:35:24,770 --> 00:35:21,480

distribute free vaccinations for

871

00:35:26,870 --> 00:35:24,780

children was started after a 2007 flu

872

00:35:29,150 --> 00:35:26,880

season where eight children across

873

00:35:31,910 --> 00:35:29,160

Australia under the age of five died

874

00:35:33,800 --> 00:35:31,920

within 24 hours of developing mild and

875

00:35:37,970 --> 00:35:33,810

nonspecific symptoms of respiratory

876

00:35:41,160 --> 00:35:37,980

infection as part of the trial in 2008

877

00:35:43,349 --> 00:35:41,170

almost 65 thousand children aged 5

878

00:35:46,609 --> 00:35:43,359

younger in Western Australia received

879

00:35:48,420 --> 00:35:46,619

free flu vaccinations and this reduced

880

00:35:51,000 --> 00:35:48,430

hospitalizations by eighty-eight percent

881

00:35:53,849 --> 00:35:51,010

the state's health department has said

882

00:35:56,400 --> 00:35:53,859

but then scientific facts and evidence

883

00:35:58,620 --> 00:35:56,410

are not something that the avn seems to

884

00:36:01,349 --> 00:35:58,630

care too much about but perhaps the

885

00:36:03,329 --> 00:36:01,359

Uniting Church does this is not the

886

00:36:05,970 --> 00:36:03,339

first time the avian has been refused

887

00:36:10,049 --> 00:36:05,980

access to a venue after having organized

888

00:36:11,970 --> 00:36:10,059

books and advertised a seminar in 2009

889

00:36:14,579 --> 00:36:11,980

they were forced to find another venue

890

00:36:16,799 --> 00:36:14,589

at short notice after a school in South

891

00:36:19,020 --> 00:36:16,809

Australia declined their appearance

892

00:36:22,260 --> 00:36:19,030

following notification of the nature of

893

00:36:24,420 --> 00:36:22,270

their material someone pondered on

894

00:36:26,430 --> 00:36:24,430

facebook today that the avian would save

895

00:36:28,620 --> 00:36:26,440

themselves a lot of time hassle and

896

00:36:31,799 --> 00:36:28,630

money if they weren't so liberal with

897

00:36:34,470 --> 00:36:31,809

the truth whilst publicly claiming to be

898

00:36:37,109 --> 00:36:34,480

pro-choice the avian preachers a clear

899

00:36:39,210 --> 00:36:37,119

anti-vaccination message designed to

900

00:36:41,970 --> 00:36:39,220

scare parents into shunning vaccinations

901
00:36:44,099 --> 00:36:41,980
for their children here's an excerpt

902
00:36:47,430 --> 00:36:44,109
from Australia's nightly news show the

903
00:36:50,069 --> 00:36:47,440
7pm project Australia's immunization

904
00:36:51,299 --> 00:36:50,079
rate is now at a seven-year low with

905
00:36:53,400 --> 00:36:51,309
only eighty-three percent of

906
00:36:56,069 --> 00:36:53,410
four-year-olds covered the issue has

907
00:36:58,349 --> 00:36:56,079
divided parents none more so than Sonia

908
00:37:00,780 --> 00:36:58,359
and Martyn Williams the vaccine debate

909
00:37:02,549 --> 00:37:00,790
almost ended their marriage I like to

910
00:37:05,130 --> 00:37:02,559
see myself as an open person that just

911
00:37:06,359 --> 00:37:05,140
looking at all evidence happen if you

912
00:37:12,200 --> 00:37:06,369
had a choice you wouldn't you were no

913
00:37:14,340 --> 00:37:12,210

vaccinated he had a choice I pretend

914

00:37:16,740 --> 00:37:14,350

basically it comes down to a stalemate

915

00:37:18,450 --> 00:37:16,750

and I literally had to put the marriage

916

00:37:21,300 --> 00:37:18,460

on the line it was either the kids get

917

00:37:22,860 --> 00:37:21,310

vaccinated or Martin leap so I was sort

918

00:37:25,770 --> 00:37:22,870

of end up being an obvious choice after

919

00:37:28,620 --> 00:37:25,780

that didn't man at this stage the kids

920

00:37:30,510 --> 00:37:28,630

it healthy you know Ethan has a slight

921

00:37:34,050 --> 00:37:30,520

learning difficulty and so forth connect

922

00:37:35,580 --> 00:37:34,060

the computer to the vaccination the

923

00:37:37,710 --> 00:37:35,590

speech pediment is not due to the

924

00:37:40,290 --> 00:37:37,720

vaccinations oh my god it is not today

925

00:37:43,170 --> 00:37:40,300

you know as you can create a spell rages

926

00:37:44,640 --> 00:37:43,180

on suffice it to say the avian has

927

00:37:46,770 --> 00:37:44,650

flooded the church with letters of

928

00:37:48,690 --> 00:37:46,780

complaint claiming a right to free

929

00:37:50,310 --> 00:37:48,700

speech likening the church's

930

00:37:52,500 --> 00:37:50,320

cancellation of the seminar to the

931

00:37:55,470 --> 00:37:52,510

persecution of Jesus amongst other

932

00:37:59,070 --> 00:37:55,480

things here's what Meryl Dory had to say

933

00:38:01,770 --> 00:37:59,080

quote I'm certainly not saying that what

934

00:38:03,540 --> 00:38:01,780

we're doing is godlike in any way but I

935

00:38:05,700 --> 00:38:03,550

mean that the sort of things that Jesus

936

00:38:07,560 --> 00:38:05,710

put up with in his lifetime is the sort

937

00:38:09,600 --> 00:38:07,570

of things that are happening with anyone

938

00:38:13,020 --> 00:38:09,610

who questions the status quo on

939

00:38:14,970 --> 00:38:13,030

vaccinations the church has also issued

940

00:38:17,670 --> 00:38:14,980

a statement which says amongst other

941

00:38:19,500 --> 00:38:17,680

things one of the church's concerns is

942

00:38:22,440 --> 00:38:19,510

that there may be a public perception

943

00:38:24,930 --> 00:38:22,450

that the UCI see does not support

944

00:38:27,120 --> 00:38:24,940

childhood vaccinations due to the avn

945

00:38:29,460 --> 00:38:27,130

seminar being held in our rooms in

946

00:38:31,740 --> 00:38:29,470

addition the level of public response

947

00:38:34,140 --> 00:38:31,750

has raised security concerns for other

948

00:38:37,410 --> 00:38:34,150

users of our buildings this is something

949

00:38:38,970 --> 00:38:37,420

we wish to avoid if you'd like to

950

00:38:44,130 --> 00:38:38,980

contact the church with your thoughts

951
00:38:47,370 --> 00:38:44,140
please go to dub dub dub dot W a dot you

952
00:38:50,490 --> 00:38:47,380
see a dot org dot a you and follow the

953
00:38:58,520 --> 00:38:50,500
links to contact us and until next time

954
00:39:04,680 --> 00:39:01,920
this is brian dunning from sceptile calm

955
00:39:06,510 --> 00:39:04,690
skep tide is a short weekly podcast

956
00:39:08,880 --> 00:39:06,520
taking a critical look at the

957
00:39:11,250 --> 00:39:08,890
pseudo-sciences that infect popular

958
00:39:13,980 --> 00:39:11,260
culture whenever I'm not locked in the

959
00:39:25,069 --> 00:39:13,990
recording studio I'm listening to the

960
00:39:31,259 --> 00:39:27,959
thank you for listening to the skeptic

961
00:39:32,849 --> 00:39:31,269
zone now my good friend Travis Roy sent

962
00:39:35,699 --> 00:39:32,859
me a message so I'm going to pass it

963
00:39:38,849 --> 00:39:35,709

along to you Granite State skeptics will

964

00:39:41,809 --> 00:39:38,859

be having a skeptics panel at Granite

965

00:39:45,029 --> 00:39:41,819

con in Manchester New Hampshire on the

966

00:39:47,099 --> 00:39:45,039

twenty-third of May lots of interesting

967

00:39:50,940 --> 00:39:47,109

people coming along skeptical people to

968

00:39:54,890 --> 00:39:50,950

take part of the granite con please have

969

00:39:58,559 --> 00:39:54,900

a look for more information at Granite

970

00:40:01,910 --> 00:39:58,569

con-com or of course at Granite State

971

00:40:03,870 --> 00:40:01,920

skeptics dot-com anybody in the area

972

00:40:05,099 --> 00:40:03,880

this is going to be really worth

973

00:40:06,809 --> 00:40:05,109

checking out they've got some people

974

00:40:09,269 --> 00:40:06,819

coming from the James Randi Educational

975

00:40:12,690 --> 00:40:09,279

Foundation what are my good friends

976

00:40:14,670 --> 00:40:12,700

kitty is going along Jeff wag lots of

977

00:40:17,880 --> 00:40:14,680

other people certainly worth checking

978

00:40:19,289 --> 00:40:17,890

out but in the meantime thank you for

979

00:40:21,150 --> 00:40:19,299

listening with the skeptic zone and

980

00:40:23,009 --> 00:40:21,160

thank you for those people writing in

981

00:40:25,109 --> 00:40:23,019

telling me that they yes last week I

982

00:40:27,839 --> 00:40:25,119

help them go to sleep as soon as they

983

00:40:29,759 --> 00:40:27,849

hear my voice off they go so until next

984

00:40:35,609 --> 00:40:29,769

week this is Richard Saunders signing

985

00:40:37,920 --> 00:40:35,619

off from Sydney Australia you've been

986

00:40:42,989 --> 00:40:37,930

listening to the skeptic zone visit our

987

00:40:47,400 --> 00:40:42,999

website at WWF tag zoomtv the comments

988

00:40:52,270 --> 00:40:47,410

contacts and extra video reports