

**The Skeptic Zone**  
**Show 311 - 5 Oct 2014**



**Richard Saunders - Dr Pamela Gay**

1  
00:00:24,040 --> 00:00:09,100  
welcome to the skeptic zone the podcast

2  
00:00:29,300 --> 00:00:26,300  
welcome skeptical zone listeners to a

3  
00:00:30,740 --> 00:00:29,310  
very very special episode you have not

4  
00:00:32,750 --> 00:00:30,750  
heard anything like what you're going to

5  
00:00:34,490 --> 00:00:32,760  
hear today because sure Richard and I

6  
00:00:35,810 --> 00:00:34,500  
have taken some investigations to the

7  
00:00:38,720 --> 00:00:35,820  
Maitland jail for the paranormal

8  
00:00:40,610 --> 00:00:38,730  
festival but this one is it casula where

9  
00:00:43,220 --> 00:00:40,620  
there are real ghosts over to you

10  
00:00:45,170 --> 00:00:43,230  
Richard Saunders I've heard they there

11  
00:00:46,490 --> 00:00:45,180  
are real ghosts here indeed main are the

12  
00:00:48,350 --> 00:00:46,500  
fact that there you are here and I'm

13  
00:00:50,810 --> 00:00:48,360

here enjoy alabaster here proof positive

14

00:00:52,460 --> 00:00:50,820

that there are real ghosts T writing Joe

15

00:00:54,530 --> 00:00:52,470

you've done some early recognizing there

16

00:00:56,930 --> 00:00:54,540

what do you found what am I found I've

17

00:00:58,520 --> 00:00:56,940

actually found some ghost hunters local

18

00:01:00,830 --> 00:00:58,530

to the Blue Mountains which is fantastic

19

00:01:02,569 --> 00:01:00,840

um they're actually my local pub they go

20

00:01:04,640 --> 00:01:02,579

around having a look at what's going on

21

00:01:06,499 --> 00:01:04,650

there so I might arrange something with

22

00:01:08,570 --> 00:01:06,509

them in the future because as with most

23

00:01:10,460 --> 00:01:08,580

of these it's a bit of a melting pot for

24

00:01:12,380 --> 00:01:10,470

people from the ghost hunting and the

25

00:01:13,790 --> 00:01:12,390

paranormal industry isn't it Richard it

26

00:01:16,070 --> 00:01:13,800

is there are tables there from the

27

00:01:17,870 --> 00:01:16,080

Newcastle paranormal people and various

28

00:01:19,730 --> 00:01:17,880

jails and pubs that is supposed to be

29

00:01:21,080 --> 00:01:19,740

haunted there's a Ghostbuster down there

30

00:01:22,400 --> 00:01:21,090

if we look down there's a guy dressed up

31

00:01:24,320 --> 00:01:22,410

as the Ghostbusters then I'll be

32

00:01:26,830 --> 00:01:24,330

crossing my streams with him later we'll

33

00:01:30,680 --> 00:01:26,840

hear I see there are tables with

34

00:01:32,680 --> 00:01:30,690

psychics here by the way Maynard and Joe

35

00:01:36,590 --> 00:01:32,690

this is skeptics own episode number 311

36

00:01:39,200 --> 00:01:36,600

for the fifth of October 2014 coming to

37

00:01:40,910 --> 00:01:39,210

you live from the casula powerhouse the

38

00:01:42,140 --> 00:01:40,920

## Australian paranormal and spiritual Expo

39

00:01:43,940 --> 00:01:42,150

where the Australian skeptics have a

40

00:01:47,330 --> 00:01:43,950

table if we look down there and i'll be

41

00:01:49,490 --> 00:01:47,340

speaking later on now the interviews

42

00:01:51,800 --> 00:01:49,500

from this adventure we're all having

43

00:01:53,270 --> 00:01:51,810

will be coming up next week in the week

44

00:01:55,640 --> 00:01:53,280

after on the skeptics own because this

45

00:01:56,870 --> 00:01:55,650

episode is a bumper episode may not yeah

46

00:01:58,789 --> 00:01:56,880

we're going to kick off with an

47

00:02:01,100 --> 00:01:58,799

interview with pamela gay the astronomer

48

00:02:04,100 --> 00:02:01,110

who is visiting sydney briefly just the

49

00:02:06,800 --> 00:02:04,110

other day and we went to the observatory

50

00:02:08,810 --> 00:02:06,810

and in the gardens of the servatory I

51  
00:02:10,340 --> 00:02:08,820  
speak to Pamela gay following that it's

52  
00:02:14,360 --> 00:02:10,350  
a week in science from Royal Institution

53  
00:02:16,610 --> 00:02:14,370  
of Australia of course www are I uswa

54  
00:02:20,060 --> 00:02:16,620  
you what is it Joe alabaster you're

55  
00:02:21,800 --> 00:02:20,070  
laughing over there um you just say that

56  
00:02:25,370 --> 00:02:21,810  
very nicely Richard

57  
00:02:27,050 --> 00:02:25,380  
I have a fan and following that it's a

58  
00:02:28,670 --> 00:02:27,060  
sort of part two of our extended

59  
00:02:30,620 --> 00:02:28,680  
interview with michael marshall from the

60  
00:02:32,540 --> 00:02:30,630  
Merseyside skeptics he's going to be

61  
00:02:34,970 --> 00:02:32,550  
talking about going along to see

62  
00:02:36,830 --> 00:02:34,980  
psychics so a big show coming up this

63  
00:02:38,240 --> 00:02:36,840

week I look we've got so much stuff

64  
00:02:39,830 --> 00:02:38,250  
coming your way here and right now we've

65  
00:02:40,910 --> 00:02:39,840  
got to do some work for the future weeks

66  
00:02:42,740 --> 00:02:40,920  
now because we've got to get a bit in

67  
00:02:44,120 --> 00:02:42,750  
the pot for Richard there he likes have

68  
00:02:46,430 --> 00:02:44,130  
a bit in the pot there so we can like

69  
00:02:47,420 --> 00:02:46,440  
put it out and get it going on the show

70  
00:02:48,800 --> 00:02:47,430  
when there's other things that are not

71  
00:02:50,540 --> 00:02:48,810  
going on because I'm going to be pulled

72  
00:02:52,009 --> 00:02:50,550  
away by legal things for the next couple

73  
00:02:53,840 --> 00:02:52,019  
of weeks and I won't be anywhere to be

74  
00:02:55,610 --> 00:02:53,850  
seen Oh in court again may now that's

75  
00:02:57,050 --> 00:02:55,620  
terrible but Joe alibi so it's so great

76

00:03:00,320 --> 00:02:57,060

to see you along and this is your first

77

00:03:02,870 --> 00:03:00,330

official assignment as a reporter indeed

78

00:03:05,360 --> 00:03:02,880

this is my first media pass she's got a

79

00:03:07,100 --> 00:03:05,370

whoop hold that up to the microphone yes

80

00:03:09,380 --> 00:03:07,110

it's a media pass this isn't listen to

81

00:03:10,550 --> 00:03:09,390

my media pass and look as I just I was

82

00:03:12,949 --> 00:03:10,560

just told that there's going to be a

83

00:03:14,180 --> 00:03:12,959

paranormal Expo up your way in Katoomba

84

00:03:16,850 --> 00:03:14,190

in May they're breaking out everywhere

85

00:03:19,100 --> 00:03:16,860

oh yeah it's quite fantastic actually

86

00:03:21,949 --> 00:03:19,110

saw that mentioned on facebook a while

87

00:03:23,720 --> 00:03:21,959

ago and I'm i might even angle for a

88

00:03:25,789 --> 00:03:23,730

media pass you know it's going to be at

89

00:03:27,410 --> 00:03:25,799

the carrington yeah but what's

90

00:03:28,460 --> 00:03:27,420

interesting this time is that right in

91

00:03:30,259 --> 00:03:28,470

the middle of this and particularly as

92

00:03:31,789 --> 00:03:30,269

we are at a raised level above everybody

93

00:03:34,310 --> 00:03:31,799

here we can look down and there's a

94

00:03:35,599 --> 00:03:34,320

small island of skeptics down there now

95

00:03:37,699 --> 00:03:35,609

what do you think is going to happen

96

00:03:39,229 --> 00:03:37,709

Richard it's very interesting ago we're

97

00:03:41,120 --> 00:03:39,239

looking down upon things are up on the

98

00:03:42,890 --> 00:03:41,130

second level and they're oh I didn't

99

00:03:44,750 --> 00:03:42,900

know 40 tables here and one of them is

100

00:03:45,979 --> 00:03:44,760

the Australian skeptics and at the

101  
00:03:48,830 --> 00:03:45,989  
moment they're chatting to each other

102  
00:03:50,900 --> 00:03:48,840  
the doors have just opened and I'm

103  
00:03:52,849 --> 00:03:50,910  
expecting there to be some shall we say

104  
00:03:55,370 --> 00:03:52,859  
heated conversation at that table during

105  
00:03:57,170 --> 00:03:55,380  
the course of the day and say what you

106  
00:03:59,660 --> 00:03:57,180  
will about the paranormal people and the

107  
00:04:02,270 --> 00:03:59,670  
people who believe in a bit of woo this

108  
00:04:05,660 --> 00:04:02,280  
room smells really nice Richard ah you

109  
00:04:08,210 --> 00:04:05,670  
know why oh it's it's me I actually had

110  
00:04:09,890 --> 00:04:08,220  
my aura cleanse shortly after I walked

111  
00:04:11,720 --> 00:04:09,900  
in one of the first tables I went to her

112  
00:04:15,949 --> 00:04:11,730  
or was a bit stinky what's the issue

113  
00:04:17,539 --> 00:04:15,959

here apparently no I'm I'm not sure but

114

00:04:20,449 --> 00:04:17,549

it got sprayed it got sprayed with some

115

00:04:22,400 --> 00:04:20,459

oils and some crystals um I think that

116

00:04:24,790 --> 00:04:22,410

they've opened up my intuition my

117

00:04:27,920 --> 00:04:24,800

feminine intuition

118

00:04:30,110 --> 00:04:27,930

okay well well okay normally I would I

119

00:04:31,490 --> 00:04:30,120

thought to cleanse your aura and I

120

00:04:32,570 --> 00:04:31,500

probably got the wrong information here

121

00:04:35,120 --> 00:04:32,580

that you should have had to have a bit

122

00:04:36,440 --> 00:04:35,130

of a awash in salt water like the sea or

123

00:04:38,480 --> 00:04:36,450

some salt water or something that's how

124

00:04:40,880 --> 00:04:38,490

I thought you cleanse Donora it's quite

125

00:04:43,310 --> 00:04:40,890

possible that the crystals within the

126  
00:04:44,510 --> 00:04:43,320  
oral spray were salt-based she couldn't

127  
00:04:47,930 --> 00:04:44,520  
actually tell me what the crystals were

128  
00:04:49,490 --> 00:04:47,940  
made of um lavender in there so she

129  
00:04:52,190 --> 00:04:49,500  
couldn't describe the mechanism by which

130  
00:04:55,040 --> 00:04:52,200  
it worked she couldn't just grab the

131  
00:04:58,130 --> 00:04:55,050  
components no but she did she did

132  
00:04:59,890 --> 00:04:58,140  
describe the evident effect being that

133  
00:05:02,120 --> 00:04:59,900  
it opened up particular chakras

134  
00:05:04,070 --> 00:05:02,130  
depending on where i was out on my

135  
00:05:05,750 --> 00:05:04,080  
journey well they are which we were you

136  
00:05:07,340 --> 00:05:05,760  
on your journey today getting booted a

137  
00:05:09,740 --> 00:05:07,350  
lot i reckon i think i will get bootle

138  
00:05:11,930 --> 00:05:09,750

up now here's the the assignment you too

139

00:05:13,460 --> 00:05:11,940

we're going to be here all day get out

140

00:05:15,080 --> 00:05:13,470

there talk to the people coming along

141

00:05:16,790 --> 00:05:15,090

talk to some of the exhibitors I will

142

00:05:18,920 --> 00:05:16,800

catch up halfway through the show to see

143

00:05:20,720 --> 00:05:18,930

how you're going and we'll come back

144

00:05:22,220 --> 00:05:20,730

later to round off this episode and all

145

00:05:24,800 --> 00:05:22,230

those reports will be coming up in

146

00:05:26,390 --> 00:05:24,810

future weeks but for now may not for now

147

00:05:27,980 --> 00:05:26,400

while listeners listen to the skeptics

148

00:05:31,580 --> 00:05:27,990

on the three of us should run downstairs

149

00:05:34,580 --> 00:05:31,590

and grab some what's on offer here some

150

00:05:36,440 --> 00:05:34,590

toast or something now I've got some

151

00:05:38,420 --> 00:05:36,450

mints in a little coffin shaped box

152

00:05:40,310 --> 00:05:38,430

already and they've got olimpo action

153

00:05:41,600 --> 00:05:40,320

figures here too oh dear I gonna do it

154

00:05:43,280 --> 00:05:41,610

for you well I'm going to run downstairs

155

00:05:45,020 --> 00:05:43,290

go straight over to the first-aid

156

00:05:47,090 --> 00:05:45,030

station over there see what's unlocked

157

00:05:49,850 --> 00:05:47,100

off as much snick as much as I can have

158

00:05:51,950 --> 00:05:49,860

a great day off mubeen while he's doing

159

00:05:57,239 --> 00:05:51,960

that I hope you enjoy the skeptic zone I

160

00:05:57,249 --> 00:06:12,500

by travelpod member

161

00:06:16,830 --> 00:06:15,030

what a delightful day it is to be in

162

00:06:18,300 --> 00:06:16,840

Sydney the birds are singing in the tree

163

00:06:21,960 --> 00:06:18,310

the wind is blowing a little bit because

164

00:06:24,030 --> 00:06:21,970

I am up on gallows Hill gallows Hill I

165

00:06:25,560 --> 00:06:24,040

hear you ask Sydneysiders you've never

166

00:06:28,020 --> 00:06:25,570

heard of gallows Hill well it's where

167

00:06:30,300 --> 00:06:28,030

the observatory is it used to be many

168

00:06:32,700 --> 00:06:30,310

many years ago known as gallows Hill I

169

00:06:34,410 --> 00:06:32,710

think you can understand why a grim

170

00:06:38,150 --> 00:06:34,420

place then but a beautiful place now

171

00:06:41,370 --> 00:06:38,160

especially if you're an astronomer and

172

00:06:43,290 --> 00:06:41,380

stagger me who should I bump into at the

173

00:06:46,530 --> 00:06:43,300

Sydney Observatory none other than dr.

174

00:06:48,360 --> 00:06:46,540

Pamela gay hello Pamela hi Richard how

175

00:06:50,130 --> 00:06:48,370

are you doing today I'm not doing too

176

00:06:52,140 --> 00:06:50,140

badly it is a wonderful day isn't it

177

00:06:54,480 --> 00:06:52,150

it's a beautiful day here in Sydney it's

178

00:06:56,430 --> 00:06:54,490

really amazing and there's a very loud

179

00:06:58,200 --> 00:06:56,440

bird that I'm hoping is like a cockatoo

180

00:07:00,690 --> 00:06:58,210

or something because the city is

181

00:07:02,520 --> 00:07:00,700

infested with amazing creatures it is

182

00:07:03,780 --> 00:07:02,530

those strange creatures folks the last

183

00:07:06,630 --> 00:07:03,790

time you were here we had a wonderful

184

00:07:08,820 --> 00:07:06,640

stroll through the Botanic Gardens we

185

00:07:12,180 --> 00:07:08,830

saw all sorts of weird birds and um eels

186

00:07:13,710 --> 00:07:12,190

yes eels that were very determined to

187

00:07:16,350 --> 00:07:13,720

come up and say hello in the middle of

188

00:07:18,750 --> 00:07:16,360

the interview that was great fun there

189

00:07:21,240 --> 00:07:18,760

now why are you in Sydney this time

190

00:07:24,360 --> 00:07:21,250

because you you only just flew in our

191

00:07:27,960 --> 00:07:24,370

league ODI literally landed about eight

192

00:07:31,590 --> 00:07:27,970

hours ago flew out st. Louis to LAX to

193

00:07:34,110 --> 00:07:31,600

Sydney and I'm here trying to figure out

194

00:07:36,510 --> 00:07:34,120

what time zone i'm in before i head out

195

00:07:39,690 --> 00:07:36,520

to siding Springs observatory for the

196

00:07:43,500 --> 00:07:39,700

dedication of the brand new I telescope

197

00:07:45,570 --> 00:07:43,510

scope odd that that is going to be out

198

00:07:48,060 --> 00:07:45,580

there to allow amateur astronomers to do

199

00:07:50,070 --> 00:07:48,070

more research and to allow educators to

200

00:07:53,610 --> 00:07:50,080

get their kids better access to the sky

201  
00:07:56,790 --> 00:07:53,620  
now I am i right and saying you haven't

202  
00:07:59,400 --> 00:07:56,800  
been deciding Springs I haven't and it's

203  
00:08:01,350 --> 00:07:59,410  
actually really exciting because it's an

204  
00:08:03,190 --> 00:08:01,360  
observatory that I've read about it's an

205  
00:08:05,850 --> 00:08:03,200  
observatory that

206  
00:08:08,470 --> 00:08:05,860  
i I've heard all sorts of stories from

207  
00:08:10,090 --> 00:08:08,480  
astronomers who've done things like step

208  
00:08:13,510 --> 00:08:10,100  
on kangaroos in the middle over the

209  
00:08:15,970 --> 00:08:13,520  
night and this is my first time not

210  
00:08:17,890 --> 00:08:15,980  
being inside of a city in Australia so I

211  
00:08:19,900 --> 00:08:17,900  
also have this secret desire to

212  
00:08:21,880 --> 00:08:19,910  
hopefully see like a kangaroo or a

213  
00:08:23,830 --> 00:08:21,890

wombat now I think you weren't gonna be

214

00:08:25,150 --> 00:08:23,840

in for a wonderful time just getting

215

00:08:27,700 --> 00:08:25,160

there just getting there I understand

216

00:08:31,480 --> 00:08:27,710

you're driving there i am i'm taking off

217

00:08:33,130 --> 00:08:31,490

with astro pixie Amanda Bauer and we're

218

00:08:35,230 --> 00:08:33,140

going to road trip from Sydney out

219

00:08:37,630 --> 00:08:35,240

deciding springs and then i'll be

220

00:08:39,790 --> 00:08:37,640

driving afterwards to melbourne with

221

00:08:41,890 --> 00:08:39,800

Peter lake and i'll be doing a number of

222

00:08:44,410 --> 00:08:41,900

events in melbourne as well i think i

223

00:08:46,000 --> 00:08:44,420

mean as much as i know you'll love doing

224

00:08:48,430 --> 00:08:46,010

your events and getting to your

225

00:08:50,530 --> 00:08:48,440

destination the trip you're going to be

226

00:08:53,350 --> 00:08:50,540

on the country side you'll see the

227

00:08:55,540 --> 00:08:53,360

experience i think will be memorable it

228

00:08:59,170 --> 00:08:55,550

once you get out of the the cities in

229

00:09:00,910 --> 00:08:59,180

australia and see the other half so to

230

00:09:03,280 --> 00:09:00,920

speak the other part of Australia not

231

00:09:04,870 --> 00:09:03,290

just the big cities you're in for a

232

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

treat and of course the stars my

233

00:09:09,490 --> 00:09:06,890

goodness me the stars out there away

234

00:09:10,600 --> 00:09:09,500

from the city lights now you I know

235

00:09:13,810 --> 00:09:10,610

you've been at the southern hemisphere

236

00:09:15,640 --> 00:09:13,820

many times but it is breathtaking out

237

00:09:17,950 --> 00:09:15,650

there it's something I'm really looking

238

00:09:20,740 --> 00:09:17,960

forward to the last time i got to see

239

00:09:23,380 --> 00:09:20,750

good southern hemisphere skies it was

240

00:09:25,770 --> 00:09:23,390

march i was outside a cape town at

241

00:09:28,030 --> 00:09:25,780

sutherland observatory in south africa

242

00:09:30,190 --> 00:09:28,040

this time it's a completely different

243

00:09:33,250 --> 00:09:30,200

season a completely different continent

244

00:09:34,810 --> 00:09:33,260

and a new opportunity to see all the

245

00:09:37,510 --> 00:09:34,820

things the southern hemisphere has to

246

00:09:40,540 --> 00:09:37,520

offer and and what a lot it has to offer

247

00:09:42,340 --> 00:09:40,550

I mean I've stepped outside when I'm in

248

00:09:44,980 --> 00:09:42,350

North America periodically engaged up

249

00:09:46,390 --> 00:09:44,990

and saw the the Stars there and notice

250

00:09:48,420 --> 00:09:46,400

the moon was always upside down for some

251  
00:09:51,430 --> 00:09:48,430  
days I can't get my head around there

252  
00:09:52,690 --> 00:09:51,440  
and as nice and interesting as the stars

253  
00:09:54,040 --> 00:09:52,700  
are there when I come back to the

254  
00:09:57,409 --> 00:09:54,050  
southern hemisphere especially when I'm

255  
00:10:00,989 --> 00:09:57,419  
away from the city the

256  
00:10:02,819 --> 00:10:00,999  
the Milky Way and the Southern Cross and

257  
00:10:05,159 --> 00:10:02,829  
the constellations you don't normally

258  
00:10:06,869 --> 00:10:05,169  
see it weighs only and the Magellanic

259  
00:10:09,209 --> 00:10:06,879  
Clouds of course it's not the ideal

260  
00:10:11,929 --> 00:10:09,219  
season but they're still up there if you

261  
00:10:14,519 --> 00:10:11,939  
just wait for the right hour and it

262  
00:10:16,259 --> 00:10:14,529  
really does look like someone took and

263  
00:10:19,079 --> 00:10:16,269

grabbed fistfuls of the Milky Way and

264

00:10:23,129 --> 00:10:19,089

threw them off to the side it's it's

265

00:10:25,799 --> 00:10:23,139

truly an amazing sky and the Carina

266

00:10:28,709 --> 00:10:25,809

star-forming region there's so much

267

00:10:31,499 --> 00:10:28,719

amazing science that happens to also

268

00:10:34,829 --> 00:10:31,509

just be beautiful to the human eye it

269

00:10:36,599 --> 00:10:34,839

really is it absolutely is now how are

270

00:10:39,809 --> 00:10:36,609

your other projects going at my house

271

00:10:43,379 --> 00:10:39,819

astronomy cast o s tronic castes is

272

00:10:46,109 --> 00:10:43,389

going great i have to admit due to poor

273

00:10:48,149 --> 00:10:46,119

planning namely being on an airplane we

274

00:10:50,789 --> 00:10:48,159

didn't get a new show out this week but

275

00:10:52,829 --> 00:10:50,799

we're running our dragoncon episode and

276

00:10:54,929 --> 00:10:52,839

i'll be recording our next episode from

277

00:10:57,599 --> 00:10:54,939

down here in australia that's exciting

278

00:11:00,179 --> 00:10:57,609

it is it's gonna require a lot of oh

279

00:11:02,579 --> 00:11:00,189

shoot timezones drink doing all of that

280

00:11:04,949 --> 00:11:02,589

i'll have people of people understand

281

00:11:07,229 --> 00:11:04,959

he'll understand we're now in our eighth

282

00:11:09,449 --> 00:11:07,239

year which is really kind of amazing to

283

00:11:11,489 --> 00:11:09,459

think about it this means it's been

284

00:11:12,779 --> 00:11:11,499

eight years since Pluto lost its planet

285

00:11:18,329 --> 00:11:12,789

hood because that was our very first

286

00:11:20,399 --> 00:11:18,339

episode and I it's it's still going

287

00:11:23,549 --> 00:11:20,409

strong because we keep learning new

288

00:11:25,289 --> 00:11:23,559

things about our universe it's it's been

289

00:11:27,389 --> 00:11:25,299

great this year to be able to focus in

290

00:11:29,819 --> 00:11:27,399

on well the Rosetta mission is getting

291

00:11:32,099 --> 00:11:29,829

ready to land on a squeaky duck shaped

292

00:11:34,409 --> 00:11:32,109

comment isn't that exciting it's them

293

00:11:37,169 --> 00:11:34,419

that it's amazing and then you have just

294

00:11:38,939 --> 00:11:37,179

successfully got a probe into Martian

295

00:11:41,309 --> 00:11:38,949

orbit that's it that's impressive so

296

00:11:42,960 --> 00:11:41,319

India's at Mars we now maven at Mars

297

00:11:44,609 --> 00:11:42,970

there's about to be accommodate Mars

298

00:11:47,249 --> 00:11:44,619

which is going to make all of that far

299

00:11:48,929 --> 00:11:47,259

more interesting and it's it's just

300

00:11:51,029 --> 00:11:48,939

really a great time to be an astronomer

301  
00:11:52,600 --> 00:11:51,039  
except for the whole funding situation

302  
00:11:54,550 --> 00:11:52,610  
but if

303  
00:11:56,170 --> 00:11:54,560  
can ignore the problem of getting paid

304  
00:11:58,360 --> 00:11:56,180  
it's a great time to be learning

305  
00:12:00,250 --> 00:11:58,370  
astronomy all the winds picking up here

306  
00:12:03,940 --> 00:12:00,260  
in Sydney Australia folks it really is

307  
00:12:07,090 --> 00:12:03,950  
it is a gorgeous day but oh hello and

308  
00:12:08,620 --> 00:12:07,100  
here come the police it's all over tomas

309  
00:12:11,319 --> 00:12:08,630  
maier sounds like it's getting rather

310  
00:12:14,650 --> 00:12:11,329  
crowded now it is this is the object

311  
00:12:16,780 --> 00:12:14,660  
that we send robots to die at but they

312  
00:12:19,360 --> 00:12:16,790  
have a great life in the process we we

313  
00:12:22,060 --> 00:12:19,370

have spirit and opportunity opportunity

314

00:12:24,759 --> 00:12:22,070

is still going along doing its

315

00:12:28,650 --> 00:12:24,769

exploration we have curiosity we have an

316

00:12:31,750 --> 00:12:28,660

entire fleet of orbiting spacecraft yeah

317

00:12:33,940 --> 00:12:31,760

pathfinder the earlier Voyager missions

318

00:12:37,870 --> 00:12:33,950

have all retired they are not boy to the

319

00:12:40,870 --> 00:12:37,880

earlier Mariner missionaries and Viking

320

00:12:43,870 --> 00:12:40,880

Viking so many different missions have

321

00:12:46,810 --> 00:12:43,880

gone there to explore and it's almost

322

00:12:49,420 --> 00:12:46,820

getting routine it it's not quite

323

00:12:52,420 --> 00:12:49,430

routine but we're now at the point where

324

00:12:55,150 --> 00:12:52,430

we can start imagining human beings

325

00:12:56,889 --> 00:12:55,160

traveling there and setting up on on one

326

00:12:58,840 --> 00:12:56,899

of the moons before going down the

327

00:13:02,319 --> 00:12:58,850

gravitational well to the surface of the

328

00:13:04,240 --> 00:13:02,329

planet it's going to be an amazing next

329

00:13:06,189 --> 00:13:04,250

two decades I wonder if it's that windy

330

00:13:08,650 --> 00:13:06,199

on ma used to this Connie it is quite a

331

00:13:13,420 --> 00:13:08,660

long run guys this is we're simulating

332

00:13:15,880 --> 00:13:13,430

Martian wind last of us does it there

333

00:13:17,829 --> 00:13:15,890

was mentioned this to a good of a very

334

00:13:21,100 --> 00:13:17,839

good friend of mine who is part of the

335

00:13:23,199 --> 00:13:21,110

hopeful Marsh Martian mission the Mars

336

00:13:26,680 --> 00:13:23,209

one the one-way mission of science and

337

00:13:28,600 --> 00:13:26,690

death that's it now he i met him in all

338

00:13:31,970 --> 00:13:28,610

emotes actually a couple years ago dr.

339

00:13:35,750 --> 00:13:31,980

best shot saab and

340

00:13:37,310 --> 00:13:35,760

he was hopeful to go to Mars and I many

341

00:13:40,670 --> 00:13:37,320

years ago here in Sydney Australia one

342

00:13:42,590 --> 00:13:40,680

day there was a huge dust storm probably

343

00:13:44,620 --> 00:13:42,600

gonna be one now there was a huge dust

344

00:13:47,360 --> 00:13:44,630

storm with a lot of red dust from the

345

00:13:50,630 --> 00:13:47,370

desert regions of Australia blue and

346

00:13:53,570 --> 00:13:50,640

over Sydney and we woke up to a red sky

347

00:13:55,640 --> 00:13:53,580

in a real Wow atmosphere and I and I

348

00:13:58,820 --> 00:13:55,650

remember looking around thinking this is

349

00:14:00,410 --> 00:13:58,830

so unsettling if people end up on Mars

350

00:14:02,900 --> 00:14:00,420

they're gonna have to get used to not a

351  
00:14:04,640 --> 00:14:02,910  
blue sky and just seeing red red red and

352  
00:14:06,770 --> 00:14:04,650  
it really makes you start to think about

353  
00:14:08,450 --> 00:14:06,780  
well why is the sky blue well it has a

354  
00:14:09,920 --> 00:14:08,460  
lot to do with the composition of our

355  
00:14:13,100 --> 00:14:09,930  
atmosphere the thickness of our

356  
00:14:16,330 --> 00:14:13,110  
atmosphere and Mars is just a different

357  
00:14:18,620 --> 00:14:16,340  
world so the color of the sunlight is

358  
00:14:21,590 --> 00:14:18,630  
different even though it's the same star

359  
00:14:22,910 --> 00:14:21,600  
news guy hmm I love those pictures from

360  
00:14:25,220 --> 00:14:22,920  
the surface of Mars where they point the

361  
00:14:27,560 --> 00:14:25,230  
camera back to earth what happens to be

362  
00:14:29,750 --> 00:14:27,570  
in the shot exactly that's exciting

363  
00:14:32,870 --> 00:14:29,760

stuff now what else uh what are your

364

00:14:35,170 --> 00:14:32,880

other projects apart from the abuse so

365

00:14:37,360 --> 00:14:35,180

so we're still

366

00:14:42,490 --> 00:14:37,370

we're gonna have to move down here comes

367

00:14:47,080 --> 00:14:42,500

the dust let's go around this we're

368

00:14:49,270 --> 00:14:47,090

getting chased by the dust okay folks

369

00:14:51,220 --> 00:14:49,280

we're on the move now because I am not

370

00:14:54,130 --> 00:14:51,230

kidding all this red dust just came up

371

00:14:56,290 --> 00:14:54,140

and got us right in the eye we are

372

00:14:57,700 --> 00:14:56,300

tempting fate so we'll just sit here we

373

00:15:00,630 --> 00:14:57,710

are on the other side of the of the

374

00:15:02,920 --> 00:15:00,640

observatory this looks more congenial

375

00:15:05,260 --> 00:15:02,930

why didn't we come round here before I

376

00:15:06,700 --> 00:15:05,270

don't know cuz now now we're sitting

377

00:15:08,590 --> 00:15:06,710

where someone's going to expect that

378

00:15:10,840 --> 00:15:08,600

we're waiting for a tour group but

379

00:15:13,090 --> 00:15:10,850

that's okay we can confuse them we can

380

00:15:16,060 --> 00:15:13,100

confuse them just just show them your

381

00:15:18,100 --> 00:15:16,070

credentials and me okay so we're just

382

00:15:19,930 --> 00:15:18,110

about to discuss your other projects

383

00:15:23,110 --> 00:15:19,940

right so so the other thing that I'm

384

00:15:26,020 --> 00:15:23,120

working on is cosmic west where we're

385

00:15:29,620 --> 00:15:26,030

inviting you to will help us explore

386

00:15:31,540 --> 00:15:29,630

mercury the moon Vesta and we're

387

00:15:32,980 --> 00:15:31,550

actually putting software together to

388

00:15:35,050 --> 00:15:32,990

hopefully launch Mars in the

389

00:15:36,220 --> 00:15:35,060

not-too-distant future no mercury is an

390

00:15:38,440 --> 00:15:36,230

interesting planet but i think it's

391

00:15:40,030 --> 00:15:38,450

overlooked quite a bit it is and part of

392

00:15:42,550 --> 00:15:40,040

the reason it's overlooked is we just

393

00:15:45,040 --> 00:15:42,560

haven't had good data until very

394

00:15:47,680 --> 00:15:45,050

recently it wasn't until the messenger

395

00:15:50,110 --> 00:15:47,690

mission finally started orbiting mars

396

00:15:53,350 --> 00:15:50,120

not Mars fun we started orbiting mercury

397

00:15:55,360 --> 00:15:53,360

that we were able to see just what this

398

00:15:58,240 --> 00:15:55,370

world looks like before that we didn't

399

00:15:59,950 --> 00:15:58,250

even have full maps of the world and ice

400

00:16:01,750 --> 00:15:59,960

tonight you know when I think about it

401  
00:16:03,370 --> 00:16:01,760  
myself I'd scarcely know anything about

402  
00:16:05,080 --> 00:16:03,380  
mercury right I really don't know what

403  
00:16:06,430 --> 00:16:05,090  
the terrain is like whether it's dusty

404  
00:16:08,590 --> 00:16:06,440  
or it doesn't have an atmosphere

405  
00:16:13,510 --> 00:16:08,600  
association it doesn't so much have an

406  
00:16:16,000 --> 00:16:13,520  
atmosphere as it's getting so baked by

407  
00:16:18,280 --> 00:16:16,010  
the Sun and hit so much by solar

408  
00:16:21,460 --> 00:16:18,290  
radiation that it actually has ions

409  
00:16:23,530 --> 00:16:21,470  
popping off of its surface so it does

410  
00:16:27,330 --> 00:16:23,540  
have a little bit of an atmosphere but

411  
00:16:30,550 --> 00:16:27,340  
that's in part caused by well ions

412  
00:16:33,670 --> 00:16:30,560  
having to escape the Sun's blast and if

413  
00:16:36,010 --> 00:16:33,680

you look at it in some of the orbiting

414

00:16:37,950 --> 00:16:36,020

spacecraft like Soho it actually has an

415

00:16:40,170 --> 00:16:37,960

ion trail behind it

416

00:16:42,210 --> 00:16:40,180

really yeah we don't think of planets is

417

00:16:45,660 --> 00:16:42,220

leaving tails that's a thing comments do

418

00:16:47,580 --> 00:16:45,670

but no we we see a ion trail out behind

419

00:16:50,190 --> 00:16:47,590

mercury we have taught me something I

420

00:16:51,480 --> 00:16:50,200

think you've told a lot of food wow

421

00:16:54,300 --> 00:16:51,490

that's interesting but but it's

422

00:16:56,310 --> 00:16:54,310

strangely enough and you may correct me

423

00:16:57,960 --> 00:16:56,320

here of course if i'm wrong i understand

424

00:17:02,970 --> 00:16:57,970

that mercury is more hospitable than

425

00:17:06,030 --> 00:17:02,980

venus it is venus is a high acid world

426

00:17:08,430 --> 00:17:06,040

as well as being hot and it also has

427

00:17:09,930 --> 00:17:08,440

high pressure you go to mercury you have

428

00:17:12,810 --> 00:17:09,940

to worry about solar radiation you have

429

00:17:17,660 --> 00:17:12,820

to worry about heat but you don't have

430

00:17:20,880 --> 00:17:17,670

to worry about being dissolved by acid

431

00:17:23,370 --> 00:17:20,890

mercury just it's a little friendlier in

432

00:17:26,340 --> 00:17:23,380

that respect and Venus as well as trying

433

00:17:31,080 --> 00:17:26,350

to dissolve you is trying to squish you

434

00:17:33,840 --> 00:17:31,090

with huge atmospheric pressure you could

435

00:17:36,800 --> 00:17:33,850

essentially fly you didn't mind the

436

00:17:40,260 --> 00:17:36,810

whole being dissolved part by spreading

437

00:17:41,730 --> 00:17:40,270

basically large not paper because that

438

00:17:43,560 --> 00:17:41,740

would dissolve but essentially large

439

00:17:46,860 --> 00:17:43,570

something that wouldn't be dissolved

440

00:17:48,210 --> 00:17:46,870

like paper wings it's kind of scary to

441

00:17:50,820 --> 00:17:48,220

think about Mars is looking more

442

00:17:54,840 --> 00:17:50,830

inviting but yes yes it really truly is

443

00:17:57,420 --> 00:17:54,850

and it really is the only option for the

444

00:17:59,970 --> 00:17:57,430

next open item the moon surely would be

445

00:18:02,640 --> 00:17:59,980

the next logical the moon is a good goal

446

00:18:05,160 --> 00:18:02,650

and some of the asteroids don't look too

447

00:18:07,920 --> 00:18:05,170

bad in the grand scheme of gravity the

448

00:18:10,890 --> 00:18:07,930

the issue with Mars is once you get

449

00:18:12,420 --> 00:18:10,900

there you have to get back off if you

450

00:18:14,310 --> 00:18:12,430

want to come home and some people some

451

00:18:16,650 --> 00:18:14,320

people don't worry about that your

452

00:18:18,570 --> 00:18:16,660

ancestors came to Australia and had no

453

00:18:20,490 --> 00:18:18,580

concern about going home my ancestors

454

00:18:21,930 --> 00:18:20,500

came to North America and had no concern

455

00:18:25,380 --> 00:18:21,940

about your home I really didn't think of

456

00:18:27,650 --> 00:18:25,390

it that way and where we are here at the

457

00:18:29,790 --> 00:18:27,660

observatory which is just up the road

458

00:18:31,440 --> 00:18:29,800

minutes away from the rocks which was

459

00:18:33,330 --> 00:18:31,450

one of the very early parts of the

460

00:18:36,630 --> 00:18:33,340

settlement is yes is where many of my

461

00:18:39,450 --> 00:18:36,640

ancestors are arrived they didn't have a

462

00:18:41,250 --> 00:18:39,460

choice by the way they were they were

463

00:18:43,100 --> 00:18:41,260

sort of told they had to come to

464

00:18:44,750 --> 00:18:43,110

Australia my

465

00:18:47,120 --> 00:18:44,760

my ancestors had a little bit more of a

466

00:18:49,880 --> 00:18:47,130

choice in going to North America but

467

00:18:52,370 --> 00:18:49,890

there there was still the the issue of

468

00:18:55,310 --> 00:18:52,380

there just weren't necessarily the

469

00:18:57,080 --> 00:18:55,320

resources to go home but the thing was

470

00:19:00,320 --> 00:18:57,090

once you made it to australia in North

471

00:19:03,320 --> 00:19:00,330

America a lot of people suffered from

472

00:19:07,130 --> 00:19:03,330

hard living conditions but if you tried

473

00:19:10,640 --> 00:19:07,140

hard the ground could grow things are

474

00:19:13,340 --> 00:19:10,650

there were native plants and animals

475

00:19:15,919 --> 00:19:13,350

that you could eat there's not going to

476

00:19:19,340 --> 00:19:15,929

be a kangaroo hopping past or a rabbit

477

00:19:21,039 --> 00:19:19,350

hopping cast when you get to Mars know

478

00:19:23,690 --> 00:19:21,049

that what is the difference I think I

479

00:19:25,280 --> 00:19:23,700

think you put you found it you put your

480

00:19:28,280 --> 00:19:25,290

finger on the big the big problem there

481

00:19:29,720 --> 00:19:28,290

well I mean that all the technical

482

00:19:31,970 --> 00:19:29,730

problems they haven't overcome just

483

00:19:33,620 --> 00:19:31,980

getting there and and not as much

484

00:19:36,310 --> 00:19:33,630

getting there but protecting yourself

485

00:19:38,780 --> 00:19:36,320

from the radiation so that you don't

486

00:19:40,730 --> 00:19:38,790

essentially kill yourself with the

487

00:19:44,600 --> 00:19:40,740

radiation dose before you even get to

488

00:19:46,640 --> 00:19:44,610

Mars yeah it's not just like the movies

489

00:19:47,960 --> 00:19:46,650

is it yeah get in a spaceship and fly

490

00:19:49,100 --> 00:19:47,970

there and just spend the time and get

491

00:19:53,930 --> 00:19:49,110

there there's all these other things to

492

00:19:56,000 --> 00:19:53,940

our it radiation starvation water water

493

00:19:58,909 --> 00:19:56,010

is probably the least of the concerns

494

00:20:00,980 --> 00:19:58,919

but starvation is a pretty bad one well

495

00:20:03,169 --> 00:20:00,990

here's his something's just occurred to

496

00:20:04,760 --> 00:20:03,179

me while I'm chatting to you okay if we

497

00:20:06,500 --> 00:20:04,770

could construct a spacecraft which would

498

00:20:08,960 --> 00:20:06,510

protect us from the solar winds and we'd

499

00:20:12,200 --> 00:20:08,970

get to Mars right okay time to get back

500

00:20:15,710 --> 00:20:12,210

down to it get down we'll get back to

501  
00:20:17,539 --> 00:20:15,720  
earth would we be battling headwind if

502  
00:20:20,870 --> 00:20:17,549  
you know what I mean who solar wind that

503  
00:20:23,630 --> 00:20:20,880  
that's actually not a concern I while

504  
00:20:26,210 --> 00:20:23,640  
well solar wind is something that we

505  
00:20:28,820 --> 00:20:26,220  
talked about in terms of solar sails the

506  
00:20:31,610 --> 00:20:28,830  
amount of solar radiation that your

507  
00:20:34,280 --> 00:20:31,620  
normal full mass spacecraft is dealing

508  
00:20:36,110 --> 00:20:34,290  
with it's it's just not that much when

509  
00:20:39,760 --> 00:20:36,120  
we start talking about using solar sails

510  
00:20:44,750 --> 00:20:39,770  
we're looking at small weight small mass

511  
00:20:48,140 --> 00:20:44,760  
vehicles with giant solar sails I you

512  
00:20:50,140 --> 00:20:48,150  
and I weigh enough that the size of the

513  
00:20:53,210 --> 00:20:50,150

solar sail weed requires a bit daunting

514

00:20:55,220 --> 00:20:53,220

and the cross-section of the spacecraft

515

00:20:57,980 --> 00:20:55,230

we'd probably be flying on

516

00:21:00,350 --> 00:20:57,990

I it's not that big a concern plus the

517

00:21:03,049 --> 00:21:00,360

Sun does most of the work for you you

518

00:21:06,260 --> 00:21:03,059

insert yourself into the right orbit you

519

00:21:08,270 --> 00:21:06,270

hang out for half a year and you arrive

520

00:21:12,530 --> 00:21:08,280

at your destination thanks to gravity

521

00:21:15,590 --> 00:21:12,540

Wow there are always there are ways once

522

00:21:17,270 --> 00:21:15,600

you overcome the radiation Pamela how

523

00:21:20,690 --> 00:21:17,280

can people find out more and how can

524

00:21:24,400 --> 00:21:20,700

they help if you want to help us explore

525

00:21:27,860 --> 00:21:24,410

the universe go to cosmic quest dot o RG

526

00:21:30,380 --> 00:21:27,870

yeah and we have all sorts of ways that

527

00:21:32,330 --> 00:21:30,390

you can help us explore the rocky worlds

528

00:21:34,760 --> 00:21:32,340

that make up our solar system and if you

529

00:21:36,590 --> 00:21:34,770

want to learn well we have lots of

530

00:21:38,539 --> 00:21:36,600

different programs at cosmic quest and

531

00:21:41,960 --> 00:21:38,549

you can also tune in to astronomy cast

532

00:21:46,190 --> 00:21:41,970

com org both of them work we're in

533

00:21:47,840 --> 00:21:46,200

itunes and we record on google+ live so

534

00:21:49,970 --> 00:21:47,850

that you can see all of the things that

535

00:21:51,350 --> 00:21:49,980

don't make it into the audio show well

536

00:21:53,060 --> 00:21:51,360

that's that's that's an interesting

537

00:21:55,490 --> 00:21:53,070

thing that's interesting now and I am

538

00:21:57,980 --> 00:21:55,500

very proud to say Pamela that since the

539

00:21:59,900 --> 00:21:57,990

beginning of the skeptic zone the one ad

540

00:22:02,060 --> 00:21:59,910

and my listeners know that you know

541

00:22:03,710 --> 00:22:02,070

between interviews and segments there

542

00:22:05,659 --> 00:22:03,720

are ads for other people and other

543

00:22:07,909 --> 00:22:05,669

podcasts and skeptical groups and this

544

00:22:09,530 --> 00:22:07,919

but the one that's been consistent from

545

00:22:11,539 --> 00:22:09,540

the beginning of the skeptic zone has

546

00:22:13,970 --> 00:22:11,549

been astronomy cast and and it's been

547

00:22:16,250 --> 00:22:13,980

fabulous getting to work with you is

548

00:22:18,830 --> 00:22:16,260

this whole field of podcasting has grown

549

00:22:23,600 --> 00:22:18,840

up across all of these years we're we're

550

00:22:25,970 --> 00:22:23,610

some of the old fogies of new media is

551  
00:22:28,460 --> 00:22:25,980  
right here and six years for the

552  
00:22:30,980 --> 00:22:28,470  
skeptics and goodness me and and I did

553  
00:22:33,140 --> 00:22:30,990  
slacker astronomy before that I've been

554  
00:22:34,789 --> 00:22:33,150  
podcasting for it'll be ten years

555  
00:22:36,770 --> 00:22:34,799  
valentines day do you think there's a

556  
00:22:38,810 --> 00:22:36,780  
retirement home for all podcaster summer

557  
00:22:41,390 --> 00:22:38,820  
there must be we need to talk to david /

558  
00:22:46,700 --> 00:22:41,400  
sure about that like a fun set up

559  
00:22:47,990 --> 00:22:46,710  
everywhere exactly pamela gay and it

560  
00:22:49,940 --> 00:22:48,000  
strikes me every time I see you it's

561  
00:22:52,640 --> 00:22:49,950  
just it's such a joy to chat with you

562  
00:22:55,130 --> 00:22:52,650  
and to know you and to regard you as a

563  
00:22:57,200 --> 00:22:55,140

friend and thanks for spending some time

564

00:22:58,640 --> 00:22:57,210

out of your schedule i know you've just

565

00:23:00,289 --> 00:22:58,650

arrived your jet lagged out of your

566

00:23:01,940 --> 00:23:00,299

skull but you've come out here we've

567

00:23:03,799 --> 00:23:01,950

walked up to the observatory and

568

00:23:05,659 --> 00:23:03,809

I couldn't be more happy it's a

569

00:23:08,029 --> 00:23:05,669

beautiful day and you lured me with

570

00:23:10,279 --> 00:23:08,039

coffee and the possibility of cockatoos

571

00:23:12,200 --> 00:23:10,289

so let's go and see if we can find

572

00:23:13,580 --> 00:23:12,210

something that sounds great thank you so

573

00:23:27,139 --> 00:23:13,590

much for having me on Richard are you

574

00:23:29,120 --> 00:23:27,149

with virtual skeptics is a weekly web

575

00:23:31,759 --> 00:23:29,130

show in which we discuss the latest news

576

00:23:33,230 --> 00:23:31,769

in skepticism whether it's a new case of

577

00:23:35,450 --> 00:23:33,240

spontaneous human combustion a

578

00:23:37,669 --> 00:23:35,460

conspiracy theory the latest update on

579

00:23:39,320 --> 00:23:37,679

the upcoming robot apocalypse tech news

580

00:23:41,810 --> 00:23:39,330

for skeptics are the latest wacky

581

00:23:44,180 --> 00:23:41,820

religious claim we cover it all we

582

00:23:46,850 --> 00:23:44,190

record the show live as a Google+ on-air

583

00:23:48,649 --> 00:23:46,860

hang out so join us and our host Brian

584

00:23:51,320 --> 00:23:48,659

Gregory for an hour of mostly

585

00:23:54,230 --> 00:23:51,330

intelligent talk every wednesday at a PM

586

00:23:56,810 --> 00:23:54,240

eastern US time watch us at virtual

587

00:24:00,169 --> 00:23:56,820

skeptics calm and participate in the

588

00:24:02,269 --> 00:24:00,179

show on our hashtag virtual skeptics the

589

00:24:07,780 --> 00:24:02,279

virtual skeptics it's like meet the

590

00:24:12,530 --> 00:24:10,370

welcome to a week in science from our

591

00:24:14,330 --> 00:24:12,540

iOS bringing you the science you need to

592

00:24:16,910 --> 00:24:14,340

know rumor has it that Marie

593

00:24:18,290 --> 00:24:16,920

Antoinette's hair turned completely gray

594

00:24:21,620 --> 00:24:18,300

the night before she went to the

595

00:24:30,710 --> 00:24:21,630

guillotine so why do we turn gray and is

596

00:24:36,210 --> 00:24:33,360

hey gets its color from a pigment called

597

00:24:38,190 --> 00:24:36,220

melanin there are two types one is black

598

00:24:40,590 --> 00:24:38,200

or dark brown and the other is British

599

00:24:43,019 --> 00:24:40,600

yellow combining to give us a huge range

600

00:24:45,149 --> 00:24:43,029

of hair colors starts at the base of the

601  
00:24:47,039 --> 00:24:45,159  
hair follicle called the Bulge produce

602  
00:24:49,110 --> 00:24:47,049  
these pigments which are then passed to

603  
00:24:51,749 --> 00:24:49,120  
other cells that produce keratin the

604  
00:24:53,730 --> 00:24:51,759  
main protein that makes up here keratin

605  
00:24:56,249 --> 00:24:53,740  
is naturally colorless it's the same

606  
00:24:58,739 --> 00:24:56,259  
protein that's in your nails as you age

607  
00:25:00,600 --> 00:24:58,749  
pigment cells become less active meaning

608  
00:25:02,850 --> 00:25:00,610  
that less colors deposited into the

609  
00:25:05,489 --> 00:25:02,860  
hair protein making it look lighter as

610  
00:25:08,070 --> 00:25:05,499  
grain progresses the pigment cells start

611  
00:25:09,960 --> 00:25:08,080  
to die off completely and eventually no

612  
00:25:13,919 --> 00:25:09,970  
color reaches the keratin making your

613  
00:25:16,529 --> 00:25:13,929

hair white some environmental factors

614

00:25:18,450 --> 00:25:16,539

like smoking poor nutrition low iron or

615

00:25:20,489 --> 00:25:18,460

thyroid problems can increase how

616

00:25:23,310 --> 00:25:20,499

quickly you go gray but what about

617

00:25:25,529 --> 00:25:23,320

stress lots of people report going gray

618

00:25:27,810 --> 00:25:25,539

following stressful periods but there's

619

00:25:29,609 --> 00:25:27,820

not much scientific evidence for it that

620

00:25:31,769 --> 00:25:29,619

said it would be pretty hard to get

621

00:25:34,109 --> 00:25:31,779

ethics approval to induce high levels of

622

00:25:36,629 --> 00:25:34,119

stress in human test subjects so it

623

00:25:39,419 --> 00:25:36,639

hasn't been thoroughly investigated some

624

00:25:41,820 --> 00:25:39,429

research in 2013 using mice suggested

625

00:25:43,799 --> 00:25:41,830

that high levels of stress hormones can

626  
00:25:45,840 --> 00:25:43,809  
cause the color pigment cells to migrate

627  
00:25:47,759 --> 00:25:45,850  
away from the hair follicle there's also

628  
00:25:49,320 --> 00:25:47,769  
some evidence that these hormones can

629  
00:25:51,389 --> 00:25:49,330  
disrupt the signal that tells the

630  
00:25:54,269 --> 00:25:51,399  
pigment cells to deposit color into the

631  
00:25:56,840 --> 00:25:54,279  
keratin cells and now for fast facts

632  
00:25:59,240 --> 00:25:56,850  
about going gray

633  
00:26:01,160 --> 00:25:59,250  
genetics plays a big role in graying

634  
00:26:03,230 --> 00:26:01,170  
you'll probably get your first gray

635  
00:26:05,510 --> 00:26:03,240  
hairs at the same age your parents or

636  
00:26:07,490 --> 00:26:05,520  
grandparents did a recent study found

637  
00:26:09,830 --> 00:26:07,500  
that when your skin is damaged such as a

638  
00:26:11,750 --> 00:26:09,840

burn pigment cells migrate away from the

639

00:26:13,850 --> 00:26:11,760

hair follicle to replenish the pigment

640

00:26:15,830 --> 00:26:13,860

in the skin this means that you can get

641

00:26:18,140 --> 00:26:15,840

a patch of white hair around your injury

642

00:26:20,090 --> 00:26:18,150

throughout history gray hair has been a

643

00:26:21,590 --> 00:26:20,100

fashion statement from oiling and

644

00:26:24,260 --> 00:26:21,600

powdering your hair in the 18th century

645

00:26:26,870 --> 00:26:24,270

to the recent return of silver blonde to

646

00:26:29,150 --> 00:26:26,880

the runway and a rare form of autoimmune

647

00:26:31,580 --> 00:26:29,160

disease can cause all pigmented hairs to

648

00:26:33,830 --> 00:26:31,590

fall out leaving behind only unpigmented

649

00:26:35,870 --> 00:26:33,840

hair this could look a bit like the

650

00:26:37,850 --> 00:26:35,880

overnight green that allegedly struck

651  
00:26:40,190 --> 00:26:37,860  
Marie Antoinette that's it for this week

652  
00:26:44,630 --> 00:26:40,200  
in science for more on the sides of gray

653  
00:26:47,120 --> 00:26:44,640  
hair go to the RAS website RI aus dot

654  
00:26:49,940 --> 00:26:47,130  
org dot a you follow us on twitter at

655  
00:27:04,820 --> 00:26:49,950  
arias and like us on facebook I'm cure

656  
00:27:10,770 --> 00:27:09,030  
and here we are I tell you what week

657  
00:27:12,480 --> 00:27:10,780  
I've been talking to a few people about

658  
00:27:14,730 --> 00:27:12,490  
their ghostly experiences here today

659  
00:27:17,460 --> 00:27:14,740  
Richard what I muses what I love about

660  
00:27:19,440 --> 00:27:17,470  
this much as how you keep your cool when

661  
00:27:21,090 --> 00:27:19,450  
someone's trying to sell you a Reiki

662  
00:27:22,590 --> 00:27:21,100  
reading white like was just happening

663  
00:27:24,570 --> 00:27:22,600

then but she said she could project

664

00:27:25,860 --> 00:27:24,580

energy under one of your chakra I

665

00:27:27,720 --> 00:27:25,870

believe I actually heard her say that

666

00:27:29,160 --> 00:27:27,730

was that correct Richard yeah I think I

667

00:27:32,010 --> 00:27:29,170

felt something in my chakra when she

668

00:27:34,140 --> 00:27:32,020

said that no I I was trying to she said

669

00:27:35,820 --> 00:27:34,150

had I ever had Reiki energy or Reiki and

670

00:27:37,950 --> 00:27:35,830

I said no I've never had Reiki energy in

671

00:27:40,170 --> 00:27:37,960

my body and she got to the point where

672

00:27:41,850 --> 00:27:40,180

she said its thermal break it and I owe

673

00:27:44,640 --> 00:27:41,860

you can man I said you can measure it

674

00:27:46,110 --> 00:27:44,650

with a thermometer then of course you

675

00:27:47,670 --> 00:27:46,120

can't and it's never happened but she

676  
00:27:50,820 --> 00:27:47,680  
went down that way and then she said oh

677  
00:27:52,350 --> 00:27:50,830  
sometimes it takes heed away oh well

678  
00:27:55,260 --> 00:27:52,360  
that's still thermal just non that's

679  
00:27:57,930 --> 00:27:55,270  
thermal another direction and so she was

680  
00:28:02,220 --> 00:27:57,940  
in the woman behind her giving the Reiki

681  
00:28:05,700 --> 00:28:02,230  
to a customer was head desking ok so she

682  
00:28:07,140 --> 00:28:05,710  
wanted me to go quick I think but it's

683  
00:28:09,030 --> 00:28:07,150  
been an interesting day so far here at

684  
00:28:10,500 --> 00:28:09,040  
the paranormal Expo me neither you've

685  
00:28:12,450 --> 00:28:10,510  
been doing a lot of interviews I've been

686  
00:28:14,730 --> 00:28:12,460  
speaking to a lot of people in the in

687  
00:28:16,470 --> 00:28:14,740  
the ghost hunting industry of Australia

688  
00:28:18,270 --> 00:28:16,480

there's a few people here and we surely

689

00:28:19,590 --> 00:28:18,280

is a bit of a ghost hunting area there

690

00:28:21,720 --> 00:28:19,600

for various reasons that I've had

691

00:28:24,060 --> 00:28:21,730

explained to me and some people here

692

00:28:25,920 --> 00:28:24,070

they're just looking for an explanation

693

00:28:28,470 --> 00:28:25,930

to an experience that they've had that

694

00:28:30,450 --> 00:28:28,480

was anomalous so I'm not that quick to

695

00:28:31,770 --> 00:28:30,460

ridicule the people here is some in the

696

00:28:34,770 --> 00:28:31,780

skeptical movement might be because

697

00:28:36,240 --> 00:28:34,780

they're they're coming here is just they

698

00:28:37,200 --> 00:28:36,250

saw something or something happened once

699

00:28:38,880 --> 00:28:37,210

and they want to know what it's all

700

00:28:41,130 --> 00:28:38,890

about and then they don't really know I

701  
00:28:43,320 --> 00:28:41,140  
can't give me an answer yeah and then

702  
00:28:45,270 --> 00:28:43,330  
they'll meet one of the people here who

703  
00:28:47,220 --> 00:28:45,280  
tell them what exactly what it was it

704  
00:28:49,350 --> 00:28:47,230  
was a spiritual visitation by XY said

705  
00:28:50,850 --> 00:28:49,360  
they feel happy they've got an answer

706  
00:28:52,930 --> 00:28:50,860  
and they come and talk to someone like

707  
00:28:54,670 --> 00:28:52,940  
me they're going to believe me know

708  
00:28:55,960 --> 00:28:54,680  
he was going to pour water on the whole

709  
00:28:57,670 --> 00:28:55,970  
thing in fact you've even spoken to

710  
00:28:58,840 --> 00:28:57,680  
someone today where you suggested that

711  
00:29:00,130 --> 00:28:58,850  
maybe it wasn't a ghost that they

712  
00:29:03,580 --> 00:29:00,140  
thought but perhaps something else

713  
00:29:05,080 --> 00:29:03,590

anomalous yeah I said you know how are

714

00:29:06,970 --> 00:29:05,090

you sure it was a ghost maybe it was an

715

00:29:09,310 --> 00:29:06,980

alien and they looked at me bit funny

716

00:29:10,750 --> 00:29:09,320

but they had to think I said it might

717

00:29:12,130 --> 00:29:10,760

have been alien I'm not saying it wasn't

718

00:29:13,360 --> 00:29:12,140

are you saying it definitely wasn't an

719

00:29:14,800 --> 00:29:13,370

alien and they had to think about it

720

00:29:16,270 --> 00:29:14,810

well what'd you do I think you're just

721

00:29:17,920 --> 00:29:16,280

being a little close minded there

722

00:29:19,150 --> 00:29:17,930

because you weren't even opening the

723

00:29:21,130 --> 00:29:19,160

possibility to a transdimensional

724

00:29:22,720 --> 00:29:21,140

incident as well I mean we could be

725

00:29:23,920 --> 00:29:22,730

something from another dimension or it

726

00:29:25,120 --> 00:29:23,930

could be something out of a time

727

00:29:27,220 --> 00:29:25,130

placement there's a number of

728

00:29:29,410 --> 00:29:27,230

explanations BAM Maynard you're better

729

00:29:31,240 --> 00:29:29,420

at this game than I am you listen to

730

00:29:33,550 --> 00:29:31,250

mysterious universe a bit more make you

731

00:29:35,440 --> 00:29:33,560

know you got to get around alright night

732

00:29:36,850 --> 00:29:35,450

well we better get on with the rest of

733

00:29:38,470 --> 00:29:36,860

the skeptics and I think coming up now

734

00:29:51,790 --> 00:29:38,480

it's a the interview with michael

735

00:29:57,020 --> 00:29:54,800

and joining me once again on the line

736

00:30:00,020 --> 00:29:57,030

from a lovely sunny I hope it's sunny

737

00:30:02,180 --> 00:30:00,030

Liverpool it's Michael Marshall hello

738

00:30:04,010 --> 00:30:02,190

Michael hello Richard it's a pleasure to

739

00:30:07,460 --> 00:30:04,020

join you again yes thanks for taking out

740

00:30:09,380 --> 00:30:07,470

the time once again to add up here well

741

00:30:11,270 --> 00:30:09,390

I doubt your voice up here on the

742

00:30:13,550 --> 00:30:11,280

skeptic zone we had a good chat last

743

00:30:15,470 --> 00:30:13,560

week about the good thinking society and

744

00:30:16,700 --> 00:30:15,480

some of the interesting claims and

745

00:30:18,590 --> 00:30:16,710

things you've come up against that

746

00:30:21,350 --> 00:30:18,600

mind-body wallet wine body spirit

747

00:30:24,530 --> 00:30:21,360

festivals um i know i'd like to talk

748

00:30:27,590 --> 00:30:24,540

about some something else that you do

749

00:30:30,860 --> 00:30:27,600

and i like to do to you like to go and

750

00:30:32,840 --> 00:30:30,870

visit psychic shows yeah absolutely i've

751

00:30:35,930 --> 00:30:32,850

been doing it quite a lot of that really

752

00:30:37,670 --> 00:30:35,940

and i use what never fails to amaze me

753

00:30:39,440 --> 00:30:37,680

is the stuff that you see in a psychic

754

00:30:42,320 --> 00:30:39,450

Shawn and I think it's really easy to

755

00:30:43,400 --> 00:30:42,330

first of all from a distance say oh well

756

00:30:45,170 --> 00:30:43,410

they're doing this they're doing that

757

00:30:46,280 --> 00:30:45,180

they just do it they're doing call

758

00:30:48,410 --> 00:30:46,290

during this where they're throwing out

759

00:30:49,640 --> 00:30:48,420

names and and when it and it's very easy

760

00:30:52,430 --> 00:30:49,650

to see that for mrs. but when you go and

761

00:30:55,580 --> 00:30:52,440

see your clothes it still it never fails

762

00:30:58,010 --> 00:30:55,590

to kind of shocked you the the paucity

763

00:31:00,140 --> 00:30:58,020

of some of the evidence put forward this

764

00:31:02,300 --> 00:31:00,150

sincerity of the belief of the audience

765

00:31:04,370 --> 00:31:02,310

you very much are often kind of veiled

766

00:31:07,400 --> 00:31:04,380

by vulnerability nor the kind of blinded

767

00:31:10,610 --> 00:31:07,410

by their grief all or the position that

768

00:31:12,710 --> 00:31:10,620

they're in and and nothing upsets me

769

00:31:15,320 --> 00:31:12,720

more I think than when people were in

770

00:31:17,210 --> 00:31:15,330

the audience for for attending a psychic

771

00:31:18,650 --> 00:31:17,220

Shawn and I would never for a second

772

00:31:20,420 --> 00:31:18,660

think anyone should do that I think

773

00:31:21,950 --> 00:31:20,430

really any one of us could be in a

774

00:31:23,240 --> 00:31:21,960

really horrible vulnerable position and

775

00:31:24,830 --> 00:31:23,250

if we're given the wrong piece of

776

00:31:26,720 --> 00:31:24,840

information at the wrong time then who

777

00:31:29,660 --> 00:31:26,730

knows what path you could be down but

778

00:31:32,000 --> 00:31:29,670

the fact that the evidence given by

779

00:31:33,650 --> 00:31:32,010

psychics to these people is so flimsy

780

00:31:36,050 --> 00:31:33,660

and yet there are some people in such

781

00:31:38,300 --> 00:31:36,060

kind of emotional states really just

782

00:31:40,790 --> 00:31:38,310

sure just how pernicious this area is I

783

00:31:44,270 --> 00:31:40,800

was in a psychic shore just last week

784

00:31:45,980 --> 00:31:44,280

and at one point the psychic connectable

785

00:31:47,720 --> 00:31:45,990

one who'd been very vocal on the front

786

00:31:49,220 --> 00:31:47,730

rows we started chiming in and so I'm

787

00:31:50,810 --> 00:31:49,230

not heckling but joining in a jovial

788

00:31:52,370 --> 00:31:50,820

kind of way I'm really clearly wanting

789

00:31:53,660 --> 00:31:52,380

to connect with a psychic and lo and

790

00:31:56,000 --> 00:31:53,670

behold the psychic came to her in the

791

00:31:57,440 --> 00:31:56,010

second half and it was very quickly

792

00:31:59,260 --> 00:31:57,450

risks that this woman's husband had died

793

00:32:02,120 --> 00:31:59,270

she's probably in her maybe early 50s

794

00:32:04,640 --> 00:32:02,130

and then it was the psychic said and

795

00:32:06,530 --> 00:32:04,650

wasn't there someone who there was a

796

00:32:08,090 --> 00:32:06,540

suicide or something that could have

797

00:32:09,620 --> 00:32:08,100

been a suicide but it wasn't a suicide

798

00:32:11,720 --> 00:32:09,630

it might have seemed to suicide to

799

00:32:12,800 --> 00:32:11,730

someone else but you could have seen it

800

00:32:14,570 --> 00:32:12,810

as a suicide but it could have been

801  
00:32:16,490 --> 00:32:14,580  
something else and she was leaving it so

802  
00:32:18,260 --> 00:32:16,500  
broad that I could be anything and it

803  
00:32:20,300 --> 00:32:18,270  
transpired that this woman had happened

804  
00:32:22,940 --> 00:32:20,310  
to have attempted suicide twice right

805  
00:32:25,400 --> 00:32:22,950  
and at this point anybody in their right

806  
00:32:27,770 --> 00:32:25,410  
mind and in there right conscious would

807  
00:32:31,400 --> 00:32:27,780  
would just leave it there but what she

808  
00:32:32,840 --> 00:32:31,410  
said this psychic instead was um well

809  
00:32:34,820 --> 00:32:32,850  
they've told me the person besides told

810  
00:32:36,710 --> 00:32:34,830  
me if you do try a third time you'll be

811  
00:32:38,630 --> 00:32:36,720  
left in a wheelchair eating through a

812  
00:32:41,120 --> 00:32:38,640  
straw I've come across similar things

813  
00:32:42,560 --> 00:32:41,130

myself there's a very famous psychic you

814

00:32:44,930 --> 00:32:42,570

know we keep using this term we keep

815

00:32:47,690 --> 00:32:44,940

referring to them as psychics but it's

816

00:32:49,880 --> 00:32:47,700

just force of habit I suppose it's easy

817

00:32:52,340 --> 00:32:49,890

to say that been to say so-called or

818

00:32:53,660 --> 00:32:52,350

pretend or oh yeah and in other words do

819

00:32:55,910 --> 00:32:53,670

get you in legal Bubba so at least

820

00:32:58,700 --> 00:32:55,920

likely go sizes a shocker for a million

821

00:33:01,040 --> 00:32:58,710

different that's right there's a very /

822

00:33:04,820 --> 00:33:01,050

well known nerve psychic in this country

823

00:33:09,130 --> 00:33:04,830

who I saw once perform life and she said

824

00:33:12,320 --> 00:33:09,140

basically her cold breeding was so

825

00:33:14,960 --> 00:33:12,330

abysmal that she went down the road of

826

00:33:16,730 --> 00:33:14,970

saying you've got some very big fears in

827

00:33:18,560 --> 00:33:16,740

your life haven't you dearie she's yes I

828

00:33:21,850 --> 00:33:18,570

do so well I'm afraid they're gonna come

829

00:33:26,360 --> 00:33:21,860

true and I'm going what do you say

830

00:33:27,770 --> 00:33:26,370

anyway anyway so it's good to attend I

831

00:33:29,510 --> 00:33:27,780

think last week was saying it's good for

832

00:33:31,810 --> 00:33:29,520

people to go to see mind-body-spirit

833

00:33:34,640 --> 00:33:31,820

festival stick those out but it's also

834

00:33:37,310 --> 00:33:34,650

really important to go and see to be in

835

00:33:39,320 --> 00:33:37,320

the audience of a psychic show a reading

836

00:33:42,770 --> 00:33:39,330

one of these traveling shows I think

837

00:33:44,390 --> 00:33:42,780

yeah I mean we've got a couple of really

838

00:33:46,130 --> 00:33:44,400

huge psychics here in the UK in fact

839

00:33:48,860 --> 00:33:46,140

you'll probably be aware of psychic

840

00:33:51,440 --> 00:33:48,870

Sally Sally Morgan over in in ours not

841

00:33:52,820 --> 00:33:51,450

too long ago and oddly enough so I've

842

00:33:54,800 --> 00:33:52,830

been doing many many top trying to

843

00:33:57,020 --> 00:33:54,810

country the first talk I ever give give

844

00:33:59,240 --> 00:33:57,030

of this kind of two of this idea that I

845

00:34:01,730 --> 00:33:59,250

have kind of talked about adventures in

846

00:34:03,470 --> 00:34:01,740

pseudoscience was in Middlesbrough in

847

00:34:05,540 --> 00:34:03,480

the northeast of England and I happen to

848

00:34:09,649 --> 00:34:05,550

mention to the audience as I always do

849

00:34:11,569 --> 00:34:09,659

that as prohibitive as the cost of see

850

00:34:14,149 --> 00:34:11,579

sally morgan might seem and it's about

851  
00:34:16,520 --> 00:34:14,159  
20 25 pounds something like that I do

852  
00:34:18,980 --> 00:34:16,530  
genuinely see the cost of entrance as

853  
00:34:21,200 --> 00:34:18,990  
the price of an education yeah you learn

854  
00:34:22,849 --> 00:34:21,210  
so much and the things to see I mean as

855  
00:34:23,930 --> 00:34:22,859  
a slight aside one of the things sally

856  
00:34:25,629 --> 00:34:23,940  
morgan does that i think is the most

857  
00:34:28,159 --> 00:34:25,639  
remarkable thing i've ever seen anyone

858  
00:34:30,079 --> 00:34:28,169  
who is doing a psychic sure do and she's

859  
00:34:32,809 --> 00:34:30,089  
incredibly skilled in it is that she'll

860  
00:34:35,270 --> 00:34:32,819  
when she's speaking to someone she will

861  
00:34:37,039 --> 00:34:35,280  
ask them if who did they come there

862  
00:34:38,359 --> 00:34:37,049  
tonight where thawed you have friends

863  
00:34:40,430 --> 00:34:38,369

with you because if you could just stand

864

00:34:42,319 --> 00:34:40,440

up sometimes the energy can really take

865

00:34:43,789 --> 00:34:42,329

it out of you so you need support

866

00:34:45,049 --> 00:34:43,799

because you're friends with user three

867

00:34:46,639 --> 00:34:45,059

of you so you stood up in this time a

868

00:34:48,230 --> 00:34:46,649

group of three you'll do a reading on

869

00:34:49,460 --> 00:34:48,240

the middle person and say there's this

870

00:34:51,200 --> 00:34:49,470

and there's that and there's the dog

871

00:34:52,669 --> 00:34:51,210

isn't that the middle person won't know

872

00:34:53,629 --> 00:34:52,679

that so should call the person the left

873

00:34:55,579 --> 00:34:53,639

and the person the right if you've got a

874

00:34:57,349 --> 00:34:55,589

dog whose dog is it oh it's your dog and

875

00:34:58,730 --> 00:34:57,359

now she's doing a reading for three

876

00:35:00,559 --> 00:34:58,740

people and you'll just gotten back

877

00:35:02,420 --> 00:35:00,569

between them and then the best thing she

878

00:35:05,029 --> 00:35:02,430

does and I've seen the psychics do but

879

00:35:06,470 --> 00:35:05,039

Sally does it best I think is she'll

880

00:35:08,390 --> 00:35:06,480

mention and then there's the blue van

881

00:35:10,039 --> 00:35:08,400

blue van which of you three none of

882

00:35:11,870 --> 00:35:10,049

these three have a blue van hold still a

883

00:35:13,760 --> 00:35:11,880

second is someone else's the blue van

884

00:35:15,890 --> 00:35:13,770

who's got the blue band and then that

885

00:35:17,329 --> 00:35:15,900

person stands up and she says you know

886

00:35:18,440 --> 00:35:17,339

by the way when the energies come

887

00:35:19,640 --> 00:35:18,450

through they can be quite hard design

888

00:35:21,260 --> 00:35:19,650

else with you could all three of you

889

00:35:24,769 --> 00:35:21,270

stand up she's now but six people stood

890

00:35:26,569 --> 00:35:24,779

up and at this point i could read six

891

00:35:28,309 --> 00:35:26,579

people in the crowd just by shotgunning

892

00:35:31,400 --> 00:35:28,319

stuff i'm not psychic i get a shotgun

893

00:35:33,410 --> 00:35:31,410

stuff um but even more so oh if i was to

894

00:35:34,430 --> 00:35:33,420

throw something out not only are they

895

00:35:36,230 --> 00:35:34,440

going to be trying to make it fit

896

00:35:37,789 --> 00:35:36,240

they're also going to try and be making

897

00:35:39,470 --> 00:35:37,799

it fit before someone else maps it

898

00:35:40,789 --> 00:35:39,480

because they want a reading they want

899

00:35:42,019 --> 00:35:40,799

this be true they want to be there so

900

00:35:44,450 --> 00:35:42,029

they're going to compete with each other

901  
00:35:45,950 --> 00:35:44,460  
to have a reading so yeah that's that's

902  
00:35:48,140 --> 00:35:45,960  
kind of a remarkable thing and I've seen

903  
00:35:49,400 --> 00:35:48,150  
some some some truly remarkable things

904  
00:35:51,440 --> 00:35:49,410  
it's sunny mortgage sure so there's

905  
00:35:53,539 --> 00:35:51,450  
something I always mentioned whenever I

906  
00:35:56,210 --> 00:35:53,549  
talk about having visited Sonny Morgan

907  
00:35:58,250 --> 00:35:56,220  
shores well this list is sorry I just

908  
00:35:59,870 --> 00:35:58,260  
have to say this whole concept of I'm

909  
00:36:02,180 --> 00:35:59,880  
going to be ready for you but you know

910  
00:36:03,859 --> 00:36:02,190  
it's not exactly clear what I'm getting

911  
00:36:06,109 --> 00:36:03,869  
from the spirits I think it's for you

912  
00:36:09,200 --> 00:36:06,119  
but oh it's for you is that oh yes now I

913  
00:36:10,849 --> 00:36:09,210

can I've seen that so many times oh yeah

914

00:36:13,099 --> 00:36:10,859

and I have but I've never seen anyone

915

00:36:14,599 --> 00:36:13,109

work it is a skillfully as Sally does

916

00:36:18,440 --> 00:36:14,609

and maybe she's genuinely psychic and

917

00:36:20,809 --> 00:36:18,450

maybe she's not so do she is yeah but I

918

00:36:23,390 --> 00:36:20,819

vote that she the solid the show that I

919

00:36:24,710 --> 00:36:23,400

saw his doing Liverpool one time she

920

00:36:26,089 --> 00:36:24,720

possessed she gets possessed by the

921

00:36:27,680 --> 00:36:26,099

spirits of people she's talking to

922

00:36:29,620 --> 00:36:27,690

mm-hmm and when people say what's the

923

00:36:31,490 --> 00:36:29,630

harm okay so she was speaking to a young

924

00:36:33,859 --> 00:36:31,500

mother near the front of the audience

925

00:36:36,289 --> 00:36:33,869

probably late 20s and then we

926

00:36:38,299 --> 00:36:36,299

established that this this poor lady had

927

00:36:40,039 --> 00:36:38,309

lost a daughter as a toddler who drowned

928

00:36:42,349 --> 00:36:40,049

in a swimming pool and Sally got

929

00:36:45,230 --> 00:36:42,359

possessed by the spirit of this lady's

930

00:36:48,349 --> 00:36:45,240

toddler and she said sally morgan

931

00:36:50,420 --> 00:36:48,359

onstage said Mummy Mummy I can't breathe

932

00:36:53,269 --> 00:36:50,430

mummy I'm scared mommy I can't breathe

933

00:36:54,859 --> 00:36:53,279

and as far as I can see this could all

934

00:36:56,960 --> 00:36:54,869

you've come about through two different

935

00:36:58,400 --> 00:36:56,970

ways one is that sally morgan is

936

00:36:59,809 --> 00:36:58,410

genuinely psychic and genuinely gets

937

00:37:02,240 --> 00:36:59,819

possessed by the spirits of the dead and

938

00:37:04,400 --> 00:37:02,250

can't help it if she comes across as in

939

00:37:06,079 --> 00:37:04,410

poor taste because she's not in control

940

00:37:07,849 --> 00:37:06,089

of herself and the other way is that

941

00:37:09,980 --> 00:37:07,859

sunny Morgan made a conscious decision

942

00:37:11,510 --> 00:37:09,990

to do an impersonation of a dead toddler

943

00:37:13,730 --> 00:37:11,520

infant for grieving mother in front of a

944

00:37:15,170 --> 00:37:13,740

paying audience all right I cannot think

945

00:37:16,460 --> 00:37:15,180

of a third way I can't think of a third

946

00:37:18,079 --> 00:37:16,470

scenario that this happened and if if

947

00:37:20,059 --> 00:37:18,089

listeners can think of a plausible third

948

00:37:21,170 --> 00:37:20,069

syllabary but I'm winning by I think

949

00:37:22,279 --> 00:37:21,180

it's one of the other and I wouldn't

950

00:37:23,779 --> 00:37:22,289

like to speculate as to which of the two

951  
00:37:26,269 --> 00:37:23,789  
it is but I do think it's an important

952  
00:37:27,829 --> 00:37:26,279  
question as to whether it was genuine or

953  
00:37:30,109 --> 00:37:27,839  
whether it wasn't and it's a shame that

954  
00:37:31,460 --> 00:37:30,119  
that other side kicks out there and

955  
00:37:34,640 --> 00:37:31,470  
sally morgan out but in particular

956  
00:37:36,680 --> 00:37:34,650  
hasn't felt that it's a worthwhile

957  
00:37:38,660 --> 00:37:36,690  
question to answer because she's been

958  
00:37:40,279 --> 00:37:38,670  
given the opportunity we challenged her

959  
00:37:43,010 --> 00:37:40,289  
in 2011 to take the million-dollar

960  
00:37:44,839 --> 00:37:43,020  
challenge by just doing what she does on

961  
00:37:46,339 --> 00:37:44,849  
stage we knew where she was on the date

962  
00:37:47,809 --> 00:37:46,349  
morning of Halloween she was already in

963  
00:37:49,549 --> 00:37:47,819

my city on the morning of Halloween it

964

00:37:51,140 --> 00:37:49,559

seemed too good to miss yeah and so he

965

00:37:52,940 --> 00:37:51,150

said you know at the time she was suing

966

00:37:54,950 --> 00:37:52,950

the Daily Mail for alleging this and

967

00:37:56,210 --> 00:37:54,960

alleging that and she successfully sued

968

00:37:58,430 --> 00:37:56,220

them and we were just saying instead of

969

00:38:00,019 --> 00:37:58,440

suing your critics just proof your

970

00:38:02,450 --> 00:38:00,029

rights just prove us wrong oh yeah yeah

971

00:38:05,390 --> 00:38:02,460

oh well you can't prove anything to the

972

00:38:06,859 --> 00:38:05,400

skeptics now well end of argue that's it

973

00:38:08,059 --> 00:38:06,869

you can't prove anything with skeptics

974

00:38:10,430 --> 00:38:08,069

oh she's right you know you can't prove

975

00:38:11,329 --> 00:38:10,440

anything that skeptics well I mean

976

00:38:12,620 --> 00:38:11,339

there's a remarkable thing that's

977

00:38:13,700 --> 00:38:12,630

happening with Sally at the moment it's

978

00:38:15,019 --> 00:38:13,710

something that we've been doing we've

979

00:38:17,599 --> 00:38:15,029

been helping out with a good thinking

980

00:38:19,700 --> 00:38:17,609

society because a young chapter came to

981

00:38:22,510 --> 00:38:19,710

us a little while ago to a lone skeptic

982

00:38:25,370 --> 00:38:22,520

who decided he was kind of annoyed with

983

00:38:27,200 --> 00:38:25,380

how some psychics out there may well not

984

00:38:30,019 --> 00:38:27,210

be psychic or this may well be but he

985

00:38:31,730 --> 00:38:30,029

just wants to spread the ideas about

986

00:38:33,380 --> 00:38:31,740

whether someone is psychic or not so he

987

00:38:35,990 --> 00:38:33,390

was just he created a little leaflet

988

00:38:36,680 --> 00:38:36,000

that said if someone psychic you want to

989

00:38:37,970 --> 00:38:36,690

see whether

990

00:38:39,650 --> 00:38:37,980

if they're asking you lots of questions

991

00:38:41,720 --> 00:38:39,660

and if they're providing if they're just

992

00:38:43,940 --> 00:38:41,730

saying general stuff and not be very

993

00:38:45,079 --> 00:38:43,950

specific maybe they're not really

994

00:38:47,000 --> 00:38:45,089

psychic you know if they're really

995

00:38:49,010 --> 00:38:47,010

psychic they wouldn't need to say does

996

00:38:50,329 --> 00:38:49,020

anybody know a John or a father figure

997

00:38:52,160 --> 00:38:50,339

there may be a bit more specific than

998

00:38:54,079 --> 00:38:52,170

that yeah and it was very good leaflet I

999

00:38:56,720 --> 00:38:54,089

was saying you know if you are asked to

1000

00:38:58,460 --> 00:38:56,730

fill in any information beforehand or if

1001

00:38:59,990 --> 00:38:58,470

you should be careful what you say

1002

00:39:01,670 --> 00:39:00,000

before the show starts in case someone's

1003

00:39:02,809 --> 00:39:01,680

listening because if I genuinely psychic

1004

00:39:04,609 --> 00:39:02,819

they wouldn't need to ask you any

1005

00:39:05,990 --> 00:39:04,619

information first and he was handling

1006

00:39:08,480 --> 00:39:06,000

some of those leaflets out outside of

1007

00:39:09,530 --> 00:39:08,490

Sally Morgan's Shores first of all but

1008

00:39:11,000 --> 00:39:09,540

just because she just saw many more

1009

00:39:14,000 --> 00:39:11,010

shows that everyone else she was kind of

1010

00:39:16,520 --> 00:39:14,010

first on the list and Sally's manager he

1011

00:39:19,700 --> 00:39:16,530

was a husband came out and was very

1012

00:39:21,260 --> 00:39:19,710

bullish you know it's funny how to came

1013

00:39:24,170 --> 00:39:21,270

to us afterwards this this is this

1014

00:39:27,230 --> 00:39:24,180

skeptical chap mark who's a very very

1015

00:39:29,089 --> 00:39:27,240

dedicated skeptic and he was just

1016

00:39:31,579 --> 00:39:29,099

telling stories of how you know this

1017

00:39:33,559 --> 00:39:31,589

husband of Sally Morgan's was saying

1018

00:39:34,940 --> 00:39:33,569

this and telling me he was gonna be sued

1019

00:39:36,290 --> 00:39:34,950

and that the police were gonna comb and

1020

00:39:38,630 --> 00:39:36,300

he was gonna punch him and all this kind

1021

00:39:40,250 --> 00:39:38,640

of quite aggressive stuff hmm and so of

1022

00:39:41,750 --> 00:39:40,260

course mark went back and hand out

1023

00:39:44,660 --> 00:39:41,760

leaflets outside of another officials

1024

00:39:46,280 --> 00:39:44,670

and had an audio recording of what was

1025

00:39:48,260 --> 00:39:46,290

going on and there's still quite

1026

00:39:51,290 --> 00:39:48,270

aggressive stuff from from Sally Mogens

1027

00:39:53,300 --> 00:39:51,300

husband so we encourage mark if he was

1028

00:39:55,099 --> 00:39:53,310

going to do it again just be sure that

1029

00:39:56,809 --> 00:39:55,109

you've got footage of it or you've got

1030

00:39:58,700 --> 00:39:56,819

some record just in case you know you in

1031

00:40:00,200 --> 00:39:58,710

a position that's uh that's not very

1032

00:40:01,550 --> 00:40:00,210

safe for you or if you feel threatened

1033

00:40:03,230 --> 00:40:01,560

at least you'll be able to know what

1034

00:40:05,750 --> 00:40:03,240

actually happened so he went along to

1035

00:40:07,940 --> 00:40:05,760

her show with a camera covert camera and

1036

00:40:10,579 --> 00:40:07,950

it's again John Morgan comes out and

1037

00:40:12,190 --> 00:40:10,589

he's incredibly as far as I could see

1038

00:40:14,900 --> 00:40:12,200

quite aggressive on the footage and

1039

00:40:16,819 --> 00:40:14,910

shouting homophobic abuse at this poor

1040

00:40:19,550 --> 00:40:16,829

chap and all sorts of really remarkable

1041

00:40:21,290 --> 00:40:19,560

things and um and then afterwards of

1042

00:40:23,980 --> 00:40:21,300

course having been through all of this

1043

00:40:26,420 --> 00:40:23,990

mark gets a letter from Sally's lawyers

1044

00:40:28,280 --> 00:40:26,430

instructing them that they're in there

1045

00:40:31,540 --> 00:40:28,290

looking into beginning legal proceedings

1046

00:40:33,770 --> 00:40:31,550

for libel and harassment and for

1047

00:40:35,930 --> 00:40:33,780

interference and emotional distress and

1048

00:40:38,180 --> 00:40:35,940

a whole laundry list of different things

1049

00:40:39,650 --> 00:40:38,190

that if you if you watch the footage it

1050

00:40:41,120 --> 00:40:39,660

certainly didn't see my markers doing an

1051

00:40:43,010 --> 00:40:41,130

awful lot of any of those things and if

1052

00:40:44,960 --> 00:40:43,020

you're talking about harassment it's

1053

00:40:46,819 --> 00:40:44,970

very hard to see how how mark very

1054

00:40:49,470 --> 00:40:46,829

quietly handing out leaflets outside of

1055

00:40:51,960 --> 00:40:49,480

a show on public property is

1056

00:40:54,030 --> 00:40:51,970

harassment so yeah that was it has been

1057

00:40:57,750 --> 00:40:54,040

a very interesting few months of having

1058

00:41:00,060 --> 00:40:57,760

some entertaining and at times quite

1059

00:41:01,859 --> 00:41:00,070

Stern exchanges with Sally Morgan

1060

00:41:03,150 --> 00:41:01,869

Morgan's lawyers and unfortunately mark

1061

00:41:04,200 --> 00:41:03,160

was able to come to us and we're able to

1062

00:41:05,700 --> 00:41:04,210

get in the legal help that he needed

1063

00:41:06,690 --> 00:41:05,710

without it costing me a huge fortune

1064

00:41:09,420 --> 00:41:06,700

because all eyes he could have racked up

1065

00:41:11,520 --> 00:41:09,430

thousands of pounds defending something

1066

00:41:15,740 --> 00:41:11,530

that he certainly didn't feel he was uh

1067

00:41:17,849 --> 00:41:15,750

he had committed anything wrong bear and

1068

00:41:19,140 --> 00:41:17,859

fortunately that the legal care seems to

1069

00:41:21,120 --> 00:41:19,150

have been dropped before it really got

1070

00:41:23,310 --> 00:41:21,130

started it never actually went to a full

1071

00:41:24,630 --> 00:41:23,320

legal proceedings but it certainly would

1072

00:41:26,040 --> 00:41:24,640

have caused a few sleepless nights I did

1073

00:41:28,500 --> 00:41:26,050

not had someone able to help him out

1074

00:41:30,000 --> 00:41:28,510

there any I mean all these people how

1075

00:41:32,280 --> 00:41:30,010

these cycles could save themselves so

1076

00:41:36,060 --> 00:41:32,290

much trouble just by our showing us that

1077

00:41:37,170 --> 00:41:36,070

their powers are genuine yeah and you

1078

00:41:38,849 --> 00:41:37,180

know that's that's it that's exactly

1079

00:41:41,430 --> 00:41:38,859

what we say no that's exactly what they

1080

00:41:43,050 --> 00:41:41,440

did and I'd be very interested in being

1081

00:41:44,730 --> 00:41:43,060

involved in that test and we've tests of

1082

00:41:46,859 --> 00:41:44,740

tests of psychics in the past and I'd be

1083

00:41:48,390 --> 00:41:46,869

very interested to do as well and uh but

1084

00:41:49,920 --> 00:41:48,400

i think that the remarkable thing is all

1085

00:41:51,690 --> 00:41:49,930

integers don't realize is that these

1086

00:41:54,990 --> 00:41:51,700

tests are out there that they can be

1087

00:41:56,220 --> 00:41:55,000

done and that there are the reasons that

1088

00:41:58,590 --> 00:41:56,230

are given by psychic to return these

1089

00:42:00,090 --> 00:41:58,600

tests down don't necessarily seem to

1090

00:42:03,530 --> 00:42:00,100

hold water when you really look at them

1091

00:42:06,330 --> 00:42:03,540

you know you can sue a newspaper about

1092

00:42:08,010 --> 00:42:06,340

the criticism they're giving you but to

1093

00:42:09,930 --> 00:42:08,020

silence them for good you could just

1094

00:42:12,150 --> 00:42:09,940

show in a very simple demonstration that

1095

00:42:14,130 --> 00:42:12,160

you're genuine yum yum sorry but again

1096

00:42:16,950 --> 00:42:14,140

though they've got the trump card up

1097

00:42:19,590 --> 00:42:16,960

their sleeve all these people of the

1098

00:42:21,420 --> 00:42:19,600

public perception of the typical skeptic

1099

00:42:25,770 --> 00:42:21,430

who is somebody who is nasty and out

1100

00:42:28,710 --> 00:42:25,780

there to make a fool or demean the

1101

00:42:30,990 --> 00:42:28,720

psychics or certainly not not never to

1102

00:42:32,430 --> 00:42:31,000

admit that they're real I mean the

1103

00:42:34,620 --> 00:42:32,440

public perception is that people like

1104

00:42:38,820 --> 00:42:34,630

you and I will go to extraordinary

1105

00:42:41,270 --> 00:42:38,830

lengths to be to be evil and spoil

1106

00:42:44,190 --> 00:42:41,280

sports or I get all these terms come up

1107

00:42:46,170 --> 00:42:44,200

and all they entered they're believers

1108

00:42:47,640 --> 00:42:46,180

that's certainly the case that's what

1109

00:42:49,260 --> 00:42:47,650

that's what we do that's the sort of

1110

00:42:51,330 --> 00:42:49,270

people we are so that they get a

1111

00:42:54,120 --> 00:42:51,340

wonderful get-out-of-jail-free card that

1112

00:42:56,849 --> 00:42:54,130

they simply say i don't want associate

1113

00:42:59,940 --> 00:42:56,859

with these nasty evil people who want to

1114

00:43:03,089 --> 00:42:59,950

who want to spoil your chance to talk

1115

00:43:05,640 --> 00:43:03,099

with your lost loved ones ya know I

1116

00:43:08,190 --> 00:43:05,650

I I completely agree and that's really

1117

00:43:10,289 --> 00:43:08,200

why all the way through October we're

1118

00:43:12,660 --> 00:43:10,299

going to be helping mark and other

1119

00:43:14,339 --> 00:43:12,670

skeptics groups around the country in

1120

00:43:16,829 --> 00:43:14,349

handing out these very reasonable

1121

00:43:18,599 --> 00:43:16,839

leaflets that mark are prepared outside

1122

00:43:20,370 --> 00:43:18,609

of psychic shores and they're very much

1123

00:43:22,620 --> 00:43:20,380

making the point that you know some

1124

00:43:24,029 --> 00:43:22,630

psychics may be psychics a genuine but

1125

00:43:26,219 --> 00:43:24,039

we do know that other side kicks or

1126

00:43:27,479 --> 00:43:26,229

other people can appear to be psychic

1127

00:43:28,710 --> 00:43:27,489

when they don't have any abilities and

1128

00:43:30,150 --> 00:43:28,720

here are some of the things that they do

1129

00:43:31,829 --> 00:43:30,160

so if you spot someone doing this you

1130

00:43:32,910 --> 00:43:31,839

might want to just question the evidence

1131

00:43:34,769 --> 00:43:32,920

you getting and see whether there's any

1132

00:43:36,509 --> 00:43:34,779

any validity to it we're going to be

1133

00:43:38,430 --> 00:43:36,519

trying to hand those out every psychic

1134

00:43:40,049 --> 00:43:38,440

sure who you can get you in October as a

1135

00:43:42,390 --> 00:43:40,059

kind of a psychic awareness month and

1136

00:43:43,819 --> 00:43:42,400

really it's to say the first time in the

1137

00:43:47,400 --> 00:43:43,829

first couple of times this was happening

1138

00:43:49,349 --> 00:43:47,410

mark was as far as we could see handing

1139

00:43:50,999 --> 00:43:49,359

out very very reasonable information he

1140

00:43:52,529 --> 00:43:51,009

was doing in a very very polite way he

1141

00:43:54,989 --> 00:43:52,539

certainly wasn't the nasty aggressives

1142

00:43:57,269 --> 00:43:54,999

skeptic he was there because he really

1143

00:43:59,039 --> 00:43:57,279

cares you know and many of us really

1144

00:44:01,440 --> 00:43:59,049

care about the people who are going

1145

00:44:03,450 --> 00:44:01,450

along these shores and the people who in

1146

00:44:05,279 --> 00:44:03,460

other places will spend huge amounts of

1147

00:44:08,160 --> 00:44:05,289

their time and their money and their

1148

00:44:10,140 --> 00:44:08,170

emotional investment really really

1149

00:44:12,539 --> 00:44:10,150

pursuing this area and if it's not true

1150

00:44:15,180 --> 00:44:12,549

then it's a real shame you know it's a

1151

00:44:16,319 --> 00:44:15,190

genuine waste so because we care we try

1152

00:44:17,700 --> 00:44:16,329

and be there and just try and be nice

1153

00:44:18,650 --> 00:44:17,710

and compassionate I think it's important

1154

00:44:21,209 --> 00:44:18,660

for us to have that kind of

1155

00:44:23,099 --> 00:44:21,219

compassionate approach really absolutely

1156

00:44:25,620 --> 00:44:23,109

right now these leaflets that are going

1157

00:44:27,059 --> 00:44:25,630

to be distributed available on the

1158

00:44:29,249 --> 00:44:27,069

website or they just something bigger

1159

00:44:30,690 --> 00:44:29,259

looking after yourself yeah well we

1160

00:44:32,279 --> 00:44:30,700

should be putting on the website book

1161

00:44:33,809 --> 00:44:32,289

certainly throughout october what we're

1162

00:44:35,759 --> 00:44:33,819

looking to do is handle a lot of it

1163

00:44:37,680 --> 00:44:35,769

ourselves mainly because what we don't

1164

00:44:39,420 --> 00:44:37,690

want and I know that some people might

1165

00:44:41,430 --> 00:44:39,430

be incredibly enthusiastic get involved

1166

00:44:43,950 --> 00:44:41,440

and that enthusiasm is is very much

1167

00:44:46,170 --> 00:44:43,960

needed in skepticism but for this kind

1168

00:44:47,430 --> 00:44:46,180

of first stage of it we don't want 50

1169

00:44:48,719 --> 00:44:47,440

people turning up outside of a show

1170

00:44:50,099 --> 00:44:48,729

because then that would make us look

1171

00:44:51,299 --> 00:44:50,109

like a kind of a bit more pounded so I

1172

00:44:53,940 --> 00:44:51,309

think we've got all the volunteers that

1173

00:44:55,620 --> 00:44:53,950

we need for just two to three people

1174

00:44:57,329 --> 00:44:55,630

outside of each sure because really all

1175

00:44:59,309 --> 00:44:57,339

we're trying to be doing and the biggest

1176

00:45:02,160 --> 00:44:59,319

kind of side of our guess is to show

1177

00:45:04,650 --> 00:45:02,170

that skeptics aren't these nasty evil

1178

00:45:07,680 --> 00:45:04,660

aggressive you know people just trying

1179

00:45:09,539 --> 00:45:07,690

to spoil fun but that we can be there

1180

00:45:12,059 --> 00:45:09,549

because we care and we're compassionate

1181

00:45:14,880 --> 00:45:12,069

and we think this is a real issue that

1182

00:45:16,770 --> 00:45:14,890

is worth spending time on and we think

1183

00:45:19,110 --> 00:45:16,780

we've got a very fair and even-handed

1184

00:45:20,700 --> 00:45:19,120

the side that if people were able to

1185

00:45:21,930 --> 00:45:20,710

listen to it then maybe they won't

1186

00:45:23,580 --> 00:45:21,940

change their mind then maybe they'll

1187

00:45:25,380 --> 00:45:23,590

never change their mind but just maybe

1188

00:45:26,790 --> 00:45:25,390

there'll be something there that they'll

1189

00:45:28,740 --> 00:45:26,800

think I never thought about that before

1190

00:45:30,210 --> 00:45:28,750

maybe I'll just question it in the

1191

00:45:32,910 --> 00:45:30,220

future maybe I'll just hold on to this

1192

00:45:34,500 --> 00:45:32,920

and think does this stack up and that's

1193

00:45:37,380 --> 00:45:34,510

really all we're looking for I think and

1194

00:45:39,120 --> 00:45:37,390

it's just a real shame to see that when

1195

00:45:43,110 --> 00:45:39,130

that was being done the first couple of

1196

00:45:45,240 --> 00:45:43,120

times there were different techniques

1197

00:45:48,390 --> 00:45:45,250

that seemed to being used certainly

1198

00:45:50,610 --> 00:45:48,400

intimidation physically verbally and

1199

00:45:52,740 --> 00:45:50,620

then laterally legally yeah in order to

1200

00:45:54,030 --> 00:45:52,750

silence what is clearly just a free

1201  
00:45:56,790 --> 00:45:54,040  
speech issue you know we're allowed to

1202  
00:45:58,670 --> 00:45:56,800  
question ideas if we're especially if

1203  
00:46:01,470 --> 00:45:58,680  
we're doing it in a non-aggressive

1204  
00:46:04,800 --> 00:46:01,480  
non-confrontational very polite way

1205  
00:46:07,320 --> 00:46:04,810  
there is no reason to become physically

1206  
00:46:10,370 --> 00:46:07,330  
abusive for verbally abusive or to

1207  
00:46:12,600 --> 00:46:10,380  
involve lawyers to try and stifle any

1208  
00:46:14,280 --> 00:46:12,610  
fair comment I think and that's that

1209  
00:46:16,470 --> 00:46:14,290  
because we care an awful lot about that

1210  
00:46:17,640 --> 00:46:16,480  
right too to comment that's why we're

1211  
00:46:20,790 --> 00:46:17,650  
really doing this throughout October

1212  
00:46:22,560 --> 00:46:20,800  
especially the right to question ideas

1213  
00:46:24,960 --> 00:46:22,570

that fly in the face of very well

1214

00:46:27,990 --> 00:46:24,970

understood and known established laws of

1215

00:46:29,310 --> 00:46:28,000

physics yeah well absolutely you know it

1216

00:46:31,080 --> 00:46:29,320

may be like so I always like to leave

1217

00:46:33,060 --> 00:46:31,090

that possibility that maybe psychics are

1218

00:46:35,190 --> 00:46:33,070

real but it's a shame that there aren't

1219

00:46:36,750 --> 00:46:35,200

any psychics out there trying to show

1220

00:46:38,580 --> 00:46:36,760

that this is real you know this isn't

1221

00:46:40,530 --> 00:46:38,590

like other areas of research we're on

1222

00:46:42,450 --> 00:46:40,540

the cutting edge of what we understand

1223

00:46:45,240 --> 00:46:42,460

is always being advanced nothing is

1224

00:46:47,640 --> 00:46:45,250

advanced in centuries of purported signs

1225

00:46:49,410 --> 00:46:47,650

abilities is the same stuff in fact one

1226

00:46:51,150 --> 00:46:49,420

of the things that even Sally is doing

1227

00:46:53,040 --> 00:46:51,160

during his show is asking people to you

1228

00:46:54,780 --> 00:46:53,050

know write down their questions and

1229

00:46:56,700 --> 00:46:54,790

their name on a piece of paper that gets

1230

00:46:58,050 --> 00:46:56,710

folded up and put in a glass bowl on

1231

00:46:59,760 --> 00:46:58,060

stage and she can lift something out the

1232

00:47:02,370 --> 00:46:59,770

glass bowl and answer your question

1233

00:47:04,080 --> 00:47:02,380

before she opens it and and I think

1234

00:47:05,970 --> 00:47:04,090

that's an unfortunate thing to be doing

1235

00:47:09,660 --> 00:47:05,980

a part of a genuine psychic shore

1236

00:47:11,550 --> 00:47:09,670

because to a an external and untrained

1237

00:47:13,440 --> 00:47:11,560

eye it looks an awful lot like an

1238

00:47:15,480 --> 00:47:13,450

old-fashioned spilett read and you know

1239

00:47:17,610 --> 00:47:15,490

magicians can do a very similar

1240

00:47:20,490 --> 00:47:17,620

appearing trick without it any psychic

1241

00:47:22,410 --> 00:47:20,500

ability so I guess my advice would be to

1242

00:47:23,940 --> 00:47:22,420

Sally if she is genuinely psychic she

1243

00:47:25,680 --> 00:47:23,950

genuinely she psychic and maybe she's

1244

00:47:27,360 --> 00:47:25,690

genuinely psychic but personally I

1245

00:47:29,070 --> 00:47:27,370

wouldn't be doing as much of that side

1246

00:47:31,020 --> 00:47:29,080

of the act because it does appear from

1247

00:47:32,820 --> 00:47:31,030

the outside like something image

1248

00:47:35,010 --> 00:47:32,830

you do that's interesting I didn't know

1249

00:47:36,630 --> 00:47:35,020

that so there are magicians out there

1250

00:47:38,850 --> 00:47:36,640

and I've seen this where they there's a

1251

00:47:41,190 --> 00:47:38,860

trick call there the billet readers you

1252

00:47:43,190 --> 00:47:41,200

say all the one ahead method which is a

1253

00:47:45,750 --> 00:47:43,200

fun trick and it's very entertaining um

1254

00:47:48,930 --> 00:47:45,760

so oh that's interesting to know that

1255

00:47:51,390 --> 00:47:48,940

she she can do that for real how about

1256

00:47:53,630 --> 00:47:51,400

that yeah and you know maybe she's doing

1257

00:47:56,610 --> 00:47:53,640

yet the thing I guess that kind of

1258

00:47:59,220 --> 00:47:56,620

interests me is that this resembles a

1259

00:48:01,050 --> 00:47:59,230

billet read it has the same appearance

1260

00:48:02,400 --> 00:48:01,060

of it and personally if I was psychic

1261

00:48:04,950 --> 00:48:02,410

out I'd stay away from anything that

1262

00:48:06,510 --> 00:48:04,960

could be misconstrued as a magic trick I

1263

00:48:08,430 --> 00:48:06,520

think I think that's that's a pretty

1264

00:48:10,920 --> 00:48:08,440

good advice psychics out there there's

1265

00:48:12,450 --> 00:48:10,930

some good advice goodbye see who says a

1266

00:48:14,400 --> 00:48:12,460

skeptics out there looking to help swear

1267

00:48:17,160 --> 00:48:14,410

help for wealthy people offering advice

1268

00:48:19,950 --> 00:48:17,170

is work shopping let's round off our

1269

00:48:21,570 --> 00:48:19,960

conversation will be reasonable let's

1270

00:48:24,240 --> 00:48:21,580

all be reasonable what can you tell me

1271

00:48:27,420 --> 00:48:24,250

about be reasonable yeah be reasonable

1272

00:48:29,010 --> 00:48:27,430

so it's a show I'm really very proud to

1273

00:48:32,160 --> 00:48:29,020

be doing really I rien joy it an awful

1274

00:48:33,960 --> 00:48:32,170

lot and it gets them very attend mixed

1275

00:48:35,460 --> 00:48:33,970

feedback because what we do would be

1276

00:48:37,170 --> 00:48:35,470

reasonable is we have somebody on the

1277

00:48:39,750 --> 00:48:37,180

shore whose ideas we completely disagree

1278

00:48:41,550 --> 00:48:39,760

with so the lid show that went out at

1279

00:48:44,040 --> 00:48:41,560

the very end of sep tember is with a

1280

00:48:45,660 --> 00:48:44,050

psychiatrist who hypnotizes people in

1281

00:48:47,340 --> 00:48:45,670

order to speak to the spirits that are

1282

00:48:48,900 --> 00:48:47,350

possessing them and that's what's

1283

00:48:51,140 --> 00:48:48,910

causing their psychiatric disorders is

1284

00:48:53,400 --> 00:48:51,150

that they're possessed by spirits I

1285

00:48:54,720 --> 00:48:53,410

disagree that there are spirits out

1286

00:48:57,780 --> 00:48:54,730

there I disagree that psychiatric

1287

00:49:00,750 --> 00:48:57,790

disorders are caused by spirits but

1288

00:49:02,820 --> 00:49:00,760

rather than having an aggressive and

1289

00:49:05,220 --> 00:49:02,830

confrontational approach and saying well

1290

00:49:06,660 --> 00:49:05,230

you're wrong and here's why because with

1291

00:49:07,800 --> 00:49:06,670

that approach only other leads to people

1292

00:49:09,750 --> 00:49:07,810

shutting down the pit offenses

1293

00:49:11,640 --> 00:49:09,760

immediately you never get past the gate

1294

00:49:14,670 --> 00:49:11,650

so you never get to understand how those

1295

00:49:16,380 --> 00:49:14,680

beliefs are constructed instead I think

1296

00:49:18,410 --> 00:49:16,390

if you try and have an actual

1297

00:49:20,610 --> 00:49:18,420

conversation a genuine honest

1298

00:49:22,500 --> 00:49:20,620

inquisitive conversation and ask people

1299

00:49:23,610 --> 00:49:22,510

what they believe they'll tell you

1300

00:49:24,840 --> 00:49:23,620

because people like talking about

1301

00:49:26,550 --> 00:49:24,850

something that's did they're like

1302

00:49:28,530 --> 00:49:26,560

talking to people about their beliefs

1303

00:49:31,440 --> 00:49:28,540

know if you're just asking questions and

1304

00:49:33,210 --> 00:49:31,450

you're just starting to probe the edges

1305

00:49:34,500 --> 00:49:33,220

of it and start to understand it and you

1306

00:49:37,200 --> 00:49:34,510

really go with the mindset of

1307

00:49:38,880 --> 00:49:37,210

understanding rather than fighting then

1308

00:49:40,170 --> 00:49:38,890

you really get into places that you

1309

00:49:41,490 --> 00:49:40,180

wouldn't have done in a conversation you

1310

00:49:44,200 --> 00:49:41,500

can get in the middle of this maze of

1311

00:49:45,970 --> 00:49:44,210

beliefs and sometimes you'll find some

1312

00:49:48,849 --> 00:49:45,980

surprising you know and I've had shows

1313

00:49:52,270 --> 00:49:48,859

in the past where the reason for

1314

00:49:53,650 --> 00:49:52,280

someone's actions as stated doesn't seem

1315

00:49:56,770 --> 00:49:53,660

to stack up and actually you can see

1316

00:49:58,320 --> 00:49:56,780

that it appears to me that the reasons

1317

00:50:00,970 --> 00:49:58,330

that using as a chap in fact he was

1318

00:50:02,500 --> 00:50:00,980

picketing abortion clinics because he's

1319

00:50:03,670 --> 00:50:02,510

a Christian and one of things he was

1320

00:50:05,440 --> 00:50:03,680

doing he was going standing outside of

1321

00:50:06,880 --> 00:50:05,450

abortion clinics and handing out barely

1322

00:50:09,040 --> 00:50:06,890

close to women as they were going in

1323

00:50:10,270 --> 00:50:09,050

saying we owe your Christianity would be

1324

00:50:12,130 --> 00:50:10,280

saying that you need to be compassionate

1325

00:50:14,260 --> 00:50:12,140

you need to show carrying through it for

1326  
00:50:16,510 --> 00:50:14,270  
your fellow man so would you not rather

1327  
00:50:18,460 --> 00:50:16,520  
take those baby clothes and go to a

1328  
00:50:20,320 --> 00:50:18,470  
domestic violence shelter and hand them

1329  
00:50:21,520 --> 00:50:20,330  
out to women who might have fled from

1330  
00:50:22,750 --> 00:50:21,530  
abusive partners in the middle of the

1331  
00:50:24,579 --> 00:50:22,760  
night with nothing but the clothes on

1332  
00:50:25,690 --> 00:50:24,589  
their and their children's backs and

1333  
00:50:26,920 --> 00:50:25,700  
there were there your clothes will be

1334  
00:50:28,810 --> 00:50:26,930  
used your active compassion will

1335  
00:50:30,190 --> 00:50:28,820  
actually have a positive side rather

1336  
00:50:32,890 --> 00:50:30,200  
than handing it to her than who Luke

1337  
00:50:34,060 --> 00:50:32,900  
leader wanted and obviously this was

1338  
00:50:34,870 --> 00:50:34,070

something he hadn't really thought which

1339

00:50:36,880 --> 00:50:34,880

about he wasn't really comfortable

1340

00:50:39,460 --> 00:50:36,890

because clearly the baby clothes weren't

1341

00:50:40,540 --> 00:50:39,470

there is a as help as he was saying he

1342

00:50:42,010 --> 00:50:40,550

was in well this is to help them out

1343

00:50:43,540 --> 00:50:42,020

with it the children it clearly wasn't

1344

00:50:44,920 --> 00:50:43,550

that he was clearly using as a tactic

1345

00:50:47,349 --> 00:50:44,930

whether he was admitting it to himself a

1346

00:50:50,589 --> 00:50:47,359

lot yeah um and even asking him about

1347

00:50:52,480 --> 00:50:50,599

the biblical support for his his

1348

00:50:54,070 --> 00:50:52,490

position I expected him to come back

1349

00:50:55,810 --> 00:50:54,080

chapter and verse here of different bits

1350

00:50:57,310 --> 00:50:55,820

and I did a little research and the end

1351

00:50:58,570 --> 00:50:57,320

what he did was he said he had some

1352

00:51:00,220 --> 00:50:58,580

piece of paper written somewhere that

1353

00:51:01,660 --> 00:51:00,230

his brother had written some verses on

1354

00:51:04,270 --> 00:51:01,670

but he can't find a piece of paper at

1355

00:51:06,130 --> 00:51:04,280

the moment from this is you you're going

1356

00:51:08,200 --> 00:51:06,140

to three different cities picketing

1357

00:51:10,420 --> 00:51:08,210

their abortion clinics because of your

1358

00:51:12,390 --> 00:51:10,430

Christianity purportedly and yet when I

1359

00:51:14,349 --> 00:51:12,400

asked you about Christian the good about

1360

00:51:16,359 --> 00:51:14,359

Christianity's approach to abortion

1361

00:51:18,370 --> 00:51:16,369

you've got nothing so clearly your

1362

00:51:19,480 --> 00:51:18,380

Christianity isn't the core of what

1363

00:51:21,010 --> 00:51:19,490

you're doing this and when you really

1364

00:51:23,470 --> 00:51:21,020

start to get into a bit more we had some

1365

00:51:26,099 --> 00:51:23,480

very very dubious sexual politics yet

1366

00:51:27,940 --> 00:51:26,109

for some very odd ideas about

1367

00:51:30,550 --> 00:51:27,950

relationship between men and women and

1368

00:51:32,440 --> 00:51:30,560

their subsequent standings in society

1369

00:51:34,870 --> 00:51:32,450

and it seemed that there's a lot of it

1370

00:51:36,190 --> 00:51:34,880

really the the religion was I don't have

1371

00:51:38,050 --> 00:51:36,200

said facades I think he honestly

1372

00:51:40,810 --> 00:51:38,060

believed it but for me it didn't seem

1373

00:51:43,359 --> 00:51:40,820

the convince her it seemed the the real

1374

00:51:44,740 --> 00:51:43,369

it seemed the the explanation rather the

1375

00:51:47,349 --> 00:51:44,750

reason if that makes sense it seemed

1376

00:51:50,500 --> 00:51:47,359

like the front rather than the core

1377

00:51:52,060 --> 00:51:50,510

motivation and I think if you went up to

1378

00:51:53,410 --> 00:51:52,070

him knowing that he was picketing

1379

00:51:54,940 --> 00:51:53,420

abortion clinics because he's a

1380

00:51:56,290 --> 00:51:54,950

Christian and you stopped there then

1381

00:51:57,640 --> 00:51:56,300

you've seen well the Bible your bible

1382

00:51:58,030 --> 00:51:57,650

thumper is this it's not it's not you

1383

00:51:59,650 --> 00:51:58,040

stay where

1384

00:52:01,540 --> 00:51:59,660

ng religious and you'd never get into

1385

00:52:02,920 --> 00:52:01,550

what was actually going on so I think by

1386

00:52:04,180 --> 00:52:02,930

asking people about their beliefs and

1387

00:52:06,070 --> 00:52:04,190

having conversations you end up in

1388

00:52:07,450 --> 00:52:06,080

places that you were expecting and they

1389

00:52:08,950 --> 00:52:07,460

weren't expecting and I don't think

1390

00:52:10,960 --> 00:52:08,960

about a single episode would be

1391

00:52:12,640 --> 00:52:10,970

reasonable where the guest hasn't stayed

1392

00:52:13,810 --> 00:52:12,650

friends with me afterwards even though

1393

00:52:15,670 --> 00:52:13,820

we've had some pretty robust

1394

00:52:16,600 --> 00:52:15,680

conversations oh yeah it's something i'm

1395

00:52:18,160 --> 00:52:16,610

really happy on that no it's a

1396

00:52:20,970 --> 00:52:18,170

remarkable for those people who don't

1397

00:52:24,220 --> 00:52:20,980

know of course be reasonable is it's

1398

00:52:27,520 --> 00:52:24,230

what it's well well it's not it's not

1399

00:52:30,430 --> 00:52:27,530

you being on your other podcast of

1400

00:52:32,320 --> 00:52:30,440

course no it's a very different very

1401  
00:52:35,590 --> 00:52:32,330  
different side of me to skeptics or the

1402  
00:52:37,120 --> 00:52:35,600  
K scottish allah ke is is first and

1403  
00:52:38,980 --> 00:52:37,130  
foremost we're doing it to be funny I

1404  
00:52:41,290 --> 00:52:38,990  
think we're doing it to have a laugh

1405  
00:52:43,330 --> 00:52:41,300  
amongst friends it's kind of it I guess

1406  
00:52:45,460 --> 00:52:43,340  
it's more in insular in terms of the

1407  
00:52:47,410 --> 00:52:45,470  
skeptical our circle the skeptic

1408  
00:52:49,480 --> 00:52:47,420  
community it's looking in whereas the

1409  
00:52:50,830 --> 00:52:49,490  
reasonable is is much more responsible

1410  
00:52:52,300 --> 00:52:50,840  
an outward-facing because sometimes you

1411  
00:52:54,640 --> 00:52:52,310  
need to just let off steam and joke

1412  
00:52:56,410 --> 00:52:54,650  
around and we do get big so the K is

1413  
00:53:00,730 --> 00:52:56,420

perfect for that of course you do have

1414

00:53:03,130 --> 00:53:00,740

that shows or is known for it's like a

1415

00:53:05,050 --> 00:53:03,140

chat with friends and Daleks you know

1416

00:53:07,480 --> 00:53:05,060

it's always yeah exactly and then the

1417

00:53:09,220 --> 00:53:07,490

thing is we will ridicule other beliefs

1418

00:53:11,200 --> 00:53:09,230

will ridicule our own beliefs you know

1419

00:53:12,790 --> 00:53:11,210

we'll really cool people will from from

1420

00:53:14,620 --> 00:53:12,800

both sides will ridicule ourselves as

1421

00:53:16,990 --> 00:53:14,630

much as ridicul of the skeptics as much

1422

00:53:18,550 --> 00:53:17,000

as it already kill believers and we like

1423

00:53:20,920 --> 00:53:18,560

to keep it fairly even-handed and as

1424

00:53:23,770 --> 00:53:20,930

much as it's light-hearted and there's

1425

00:53:25,810 --> 00:53:23,780

no malice aura or intent on mal intent

1426

00:53:28,600 --> 00:53:25,820

in any of it really but the reason was is

1427

00:53:30,820 --> 00:53:28,610

where we're really showing how I think

1428

00:53:33,040 --> 00:53:30,830

we have a conversation with someone and

1429

00:53:35,860 --> 00:53:33,050

it genuinely is a conversation January's

1430

00:53:37,330 --> 00:53:35,870

occurring exploration of beliefs and an

1431

00:53:39,550 --> 00:53:37,340

explains and understanding of beliefs

1432

00:53:41,320 --> 00:53:39,560

and I think it's personally I find so

1433

00:53:42,520 --> 00:53:41,330

much value in that whenever I have the

1434

00:53:44,620 --> 00:53:42,530

opportunity to speak to someone I

1435

00:53:47,700 --> 00:53:44,630

disagree with I find this value there

1436

00:53:49,870 --> 00:53:47,710

because I think in our lives we all have

1437

00:53:51,910 --> 00:53:49,880

limitless possibilities limitless

1438

00:53:53,530 --> 00:53:51,920

opportunities usually to talk to

1439

00:53:55,720 --> 00:53:53,540

somebody we agree with or to fill a room

1440

00:53:57,580 --> 00:53:55,730

with friends who broadly will share many

1441

00:53:59,650 --> 00:53:57,590

of the same beliefs as us so I think we

1442

00:54:01,990 --> 00:53:59,660

should really grasp and unveil you the

1443

00:54:04,240 --> 00:54:02,000

chances to have our belief challenged in

1444

00:54:06,610 --> 00:54:04,250

fact on the later show in fact one of

1445

00:54:08,530 --> 00:54:06,620

the one of the things Alan Sanderson is

1446

00:54:11,230 --> 00:54:08,540

psychologists saying to me he starts

1447

00:54:11,770 --> 00:54:11,240

talkative about why I'm a skeptic and

1448

00:54:13,270 --> 00:54:11,780

what

1449

00:54:15,340 --> 00:54:13,280

skepticism as a belief system is about

1450

00:54:17,290 --> 00:54:15,350

and what he said is if we could prove

1451

00:54:19,240 --> 00:54:17,300

that any of this paranormal stuff is

1452

00:54:21,160 --> 00:54:19,250

real then your entire belief system is

1453

00:54:22,810 --> 00:54:21,170

shattered how do you stop your belief

1454

00:54:24,310 --> 00:54:22,820

system being shattered their several is

1455

00:54:25,840 --> 00:54:24,320

very simple if you want to stop your

1456

00:54:27,520 --> 00:54:25,850

belief system being shattered don't make

1457

00:54:29,350 --> 00:54:27,530

it out of glass no don't make your

1458

00:54:31,720 --> 00:54:29,360

belief system so precious and porcelain

1459

00:54:33,160 --> 00:54:31,730

but it's so inflexible just as soon as

1460

00:54:35,290 --> 00:54:33,170

it's challenged you will make its out

1461

00:54:37,330 --> 00:54:35,300

something robust to make it semi I mean

1462

00:54:39,070 --> 00:54:37,340

pliable and shift and change it took

1463

00:54:41,080 --> 00:54:39,080

according to the evidence that the

1464

00:54:43,450 --> 00:54:41,090

common fallacy these people make is this

1465

00:54:45,420 --> 00:54:43,460

human that we have a belief system which

1466

00:54:47,650 --> 00:54:45,430

says that their belief system is a

1467

00:54:51,970 --> 00:54:47,660

impossible or incorrect or we won't be

1468

00:54:55,120 --> 00:54:51,980

open to this that they impose on us what

1469

00:54:57,850 --> 00:54:55,130

their own system is in a respect their

1470

00:55:00,220 --> 00:54:57,860

own mindset people say to me well if

1471

00:55:01,660 --> 00:55:00,230

you're skeptics of you if something was

1472

00:55:03,640 --> 00:55:01,670

shown to you to be real then your whole

1473

00:55:05,650 --> 00:55:03,650

existence would be meaningless something

1474

00:55:07,440 --> 00:55:05,660

that you don't get it do you it doesn't

1475

00:55:10,780 --> 00:55:07,450

work like that with skepticism

1476

00:55:12,400 --> 00:55:10,790

skepticism and as a method it's an

1477

00:55:15,370 --> 00:55:12,410

approach it's a way to look at things

1478

00:55:17,440 --> 00:55:15,380

the conclusion is be you know the cards

1479

00:55:19,990 --> 00:55:17,450

will fall where they may that the chips

1480

00:55:24,400 --> 00:55:20,000

that the skepticism is not an entrenched

1481

00:55:26,380 --> 00:55:24,410

belief system in any sense no and how my

1482

00:55:28,210 --> 00:55:26,390

favorite kind of way of summing that up

1483

00:55:29,620 --> 00:55:28,220

is something that Michael who have got a

1484

00:55:31,420 --> 00:55:29,630

huge much respect for he's one of my

1485

00:55:32,950 --> 00:55:31,430

favorite skeptics in the world very

1486

00:55:35,320 --> 00:55:32,960

fortunately happens to live in the same

1487

00:55:37,060 --> 00:55:35,330

city as me my cold as the most amazing

1488

00:55:40,600 --> 00:55:37,070

Richard Saunders impersonation I've ever

1489

00:55:44,230 --> 00:55:40,610

heard it does that's true it's

1490

00:55:45,790 --> 00:55:44,240

Australian accent it's not but Howie

1491

00:55:48,580 --> 00:55:45,800

Howie characterized that point of view

1492

00:55:50,830 --> 00:55:48,590

is that as much as possible I want what

1493

00:55:52,840 --> 00:55:50,840

I believe to be true and there's two

1494

00:55:55,240 --> 00:55:52,850

ways of accomplishing that I can change

1495

00:55:57,520 --> 00:55:55,250

the world too much my beliefs or I can

1496

00:55:59,350 --> 00:55:57,530

change my belief to match the world and

1497

00:56:02,080 --> 00:55:59,360

the second of those is a lot less effort

1498

00:56:03,880 --> 00:56:02,090

much easier you know it takes a lot less

1499

00:56:05,710 --> 00:56:03,890

effort to do so i'll just change what I

1500

00:56:07,830 --> 00:56:05,720

think what I know it's wrong mm-hmm

1501  
00:56:10,810 --> 00:56:07,840  
that's pretty cool how can people find

1502  
00:56:13,390 --> 00:56:10,820  
be reasonable so you can go to

1503  
00:56:15,640 --> 00:56:13,400  
Merseyside skeptics dog Duke a forward

1504  
00:56:17,350 --> 00:56:15,650  
slash podcasts and there you'll find be

1505  
00:56:19,210 --> 00:56:17,360  
reasonable you'll find sketchy to the K

1506  
00:56:20,980 --> 00:56:19,220  
and you'll find our other kind of comedy

1507  
00:56:22,540 --> 00:56:20,990  
panel Shore incredulous so that's kind

1508  
00:56:23,790 --> 00:56:22,550  
of where you get all our podcasting

1509  
00:56:25,770 --> 00:56:23,800  
output there

1510  
00:56:28,440 --> 00:56:25,780  
I hope I can look forward to getting a

1511  
00:56:31,560 --> 00:56:28,450  
promo from you pretty soon for being

1512  
00:56:33,750 --> 00:56:31,570  
reasonable that would be nice I'll send

1513  
00:56:35,910 --> 00:56:33,760

you an over okay promising you you have

1514

00:56:38,460 --> 00:56:35,920

you it's a new probables anyway that's

1515

00:56:40,320 --> 00:56:38,470

less rich it well you are you're rubbish

1516

00:56:44,360 --> 00:56:40,330

i mean i've been playing skeptics with a

1517

00:56:46,770 --> 00:56:44,370

k promo now the same 24 years is

1518

00:56:48,900 --> 00:56:46,780

embarrassing thing is big right it's

1519

00:56:50,550 --> 00:56:48,910

still great but well the embarrassing

1520

00:56:52,680 --> 00:56:50,560

your thing is the third the latest one

1521

00:56:54,180 --> 00:56:52,690

the second one says that only three

1522

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

men's done between and it's not three

1523

00:56:58,620 --> 00:56:56,380

million column f like six months ago

1524

00:56:59,850 --> 00:56:58,630

it's Alice now and alice is fantastic

1525

00:57:01,260 --> 00:56:59,860

and you know has brought a whole

1526

00:57:02,670 --> 00:57:01,270

different side of things and we just

1527

00:57:04,140 --> 00:57:02,680

need to update our advert every way

1528

00:57:06,480 --> 00:57:04,150

useless useless people there you go

1529

00:57:09,180 --> 00:57:06,490

there's your task there's your task

1530

00:57:11,280 --> 00:57:09,190

could you choose to accept it is in the

1531

00:57:13,620 --> 00:57:11,290

next little while is to provide me with

1532

00:57:15,990 --> 00:57:13,630

a couple of fresh promos I think that

1533

00:57:18,360 --> 00:57:16,000

would deliver to you on the CD in person

1534

00:57:20,190 --> 00:57:18,370

in Sydney wanna film how about that now

1535

00:57:21,990 --> 00:57:20,200

what segue you're coming to Sydney

1536

00:57:23,460 --> 00:57:22,000

that's very exciting yes Michael

1537

00:57:24,660 --> 00:57:23,470

Marshall is coming to Sydney for the

1538

00:57:26,340 --> 00:57:24,670

## Australian skeptics National Convention

1539

00:57:27,930 --> 00:57:26,350

you've been hearing about this

1540

00:57:30,510 --> 00:57:27,940

convention on the skeptics and podcast

1541

00:57:33,210 --> 00:57:30,520

for some time now and if you wondering

1542

00:57:35,100 --> 00:57:33,220

should I go what's the final thing that

1543

00:57:36,810 --> 00:57:35,110

what's the straw the camel's back what's

1544

00:57:37,860 --> 00:57:36,820

the tipping point that'll make me come

1545

00:57:40,200 --> 00:57:37,870

to the Australian skeptics National

1546

00:57:41,520 --> 00:57:40,210

Convention listening to Michael Marshall

1547

00:57:43,530 --> 00:57:41,530

would surely be that tipping point

1548

00:57:45,660 --> 00:57:43,540

Michael we're looking forward to seeing

1549

00:57:48,480 --> 00:57:45,670

you out here in Sydney I know I

1550

00:57:49,740 --> 00:57:48,490

genuinely can't wait I've followed you

1551  
00:57:51,360 --> 00:57:49,750  
know the skeptics order to work the

1552  
00:57:53,700 --> 00:57:51,370  
Australian skeptics for years and we get

1553  
00:57:55,560 --> 00:57:53,710  
so much so much correspondence from

1554  
00:57:59,340 --> 00:57:55,570  
Australian listeners to our show as well

1555  
00:58:00,360 --> 00:57:59,350  
not all of it abusive must be abusive

1556  
00:58:03,270 --> 00:58:00,370  
that's fine we have a good relationship

1557  
00:58:04,740 --> 00:58:03,280  
with others generally but yeah I can't

1558  
00:58:06,510 --> 00:58:04,750  
wait to meet everyone and it's always

1559  
00:58:08,310 --> 00:58:06,520  
great to catch up with you and rich in

1560  
00:58:10,830 --> 00:58:08,320  
Iran and all that other kind of team in

1561  
00:58:12,780 --> 00:58:10,840  
person so yeah I can't I I can't believe

1562  
00:58:14,940 --> 00:58:12,790  
it really I'm pinching myself that I

1563  
00:58:17,990 --> 00:58:14,950

would never imagined that one day

1564

00:58:21,270 --> 00:58:18,000

skepticism would see me traveling the

1565

00:58:23,370 --> 00:58:21,280

entire breadth of the loan mmm speak to

1566

00:58:25,170 --> 00:58:23,380

people it's surreal but yes so exciting

1567

00:58:26,730 --> 00:58:25,180

I'll have to put you in may nod together

1568

00:58:29,460 --> 00:58:26,740

in a room and see what happens I think

1569

00:58:30,870 --> 00:58:29,470

that'll be pretty decided well Michael

1570

00:58:33,090 --> 00:58:30,880

most certainly outdress me that's for

1571

00:58:35,940 --> 00:58:33,100

sure oh yes well Michael Marshall once

1572

00:58:36,980 --> 00:58:35,950

again thank you for appearing on the

1573

00:58:39,109 --> 00:58:36,990

skeptic zone as you did

1574

00:58:41,030 --> 00:58:39,119

last week a great pleasure to talk with

1575

00:58:43,730 --> 00:58:41,040

you we will have a great time when you

1576  
00:58:45,320 --> 00:58:43,740  
hit Sydney Town I'll show you the sights

1577  
00:58:47,840 --> 00:58:45,330  
and we'll have some good old-fashioned

1578  
00:58:49,520 --> 00:58:47,850  
skepticism going on but for this week

1579  
00:58:51,890 --> 00:58:49,530  
Michael Marshall thank you very much

1580  
00:59:12,000 --> 00:58:51,900  
thank you so much rich and massive

1581  
00:59:16,690 --> 00:59:14,440  
well one episode that was we're in the

1582  
00:59:18,100 --> 00:59:16,700  
skeptic nabil here which is like oh look

1583  
00:59:19,690 --> 00:59:18,110  
all I can say is it's partly

1584  
00:59:22,150 --> 00:59:19,700  
australian-made and most of the parts

1585  
00:59:24,130 --> 00:59:22,160  
are still going Richard may know the

1586  
00:59:25,420 --> 00:59:24,140  
days over and it's jai alai busted in

1587  
00:59:28,510 --> 00:59:25,430  
the back seat with ilithya hello

1588  
00:59:31,840 --> 00:59:28,520

ilithya know what was most everything

1589

00:59:35,680 --> 00:59:31,850

by other day for you Joe um actually I

1590

00:59:39,310 --> 00:59:35,690

joined a witch's circle am in the first

1591

00:59:42,640 --> 00:59:39,320

first term workshop and I got

1592

00:59:45,820 --> 00:59:42,650

transported to another plane to the

1593

00:59:48,010 --> 00:59:45,830

spirit world that was interesting i will

1594

00:59:49,450 --> 00:59:48,020

report on that next week okay and letha

1595

00:59:51,670 --> 00:59:49,460

what you and find most interesting part

1596

00:59:54,220 --> 00:59:51,680

the day well certainly not nothing to

1597

00:59:57,100 --> 00:59:54,230

compete with her which is cycle I listen

1598

00:59:59,740 --> 00:59:57,110

to an EVP section from the ghost hunters

1599

01:00:01,750 --> 00:59:59,750

down under they had us guess of what we

1600

01:00:04,810 --> 01:00:01,760

thought that little section was what was

1601

01:00:07,120 --> 01:00:04,820

it I thought it was it's crispy but I

1602

01:00:09,940 --> 01:00:07,130

don't that was the end of the donut

1603

01:00:11,800 --> 01:00:09,950

ghost and Richard you had a big day you

1604

01:00:14,290 --> 01:00:11,810

got up there and said our ghost afraid

1605

01:00:17,109 --> 01:00:14,300

of skeptics you had the big know up

1606

01:00:19,630 --> 01:00:17,119

behind you there you were certainly the

1607

01:00:21,190 --> 01:00:19,640

odd man out today i was i gave a talk

1608

01:00:23,140 --> 01:00:21,200

right at the end of the day but which

1609

01:00:25,510 --> 01:00:23,150

was reasonably well attended i thought

1610

01:00:27,250 --> 01:00:25,520

and i noticed a lot of heads nodding in

1611

01:00:29,740 --> 01:00:27,260

the audience as I spoke so I was pretty

1612

01:00:30,609 --> 01:00:29,750

pleased manor well I look I spoke to a

1613

01:00:32,770 --> 01:00:30,619

lot of people you're going to hear from

1614

01:00:34,000 --> 01:00:32,780

in the near future but right now you've

1615

01:00:36,190 --> 01:00:34,010

got to thank people for listening and do

1616

01:00:38,800 --> 01:00:36,200

your sign-off thank you for listening to

1617

01:00:40,720 --> 01:00:38,810

the skeptics Ernie that's right as we

1618

01:00:41,980 --> 01:00:40,730

drive into sydney from casula where we

1619

01:00:44,470 --> 01:00:41,990

went to the paranormal convention I'd

1620

01:00:46,000 --> 01:00:44,480

like to thank Maynard and Joe alabaster

1621

01:00:48,370 --> 01:00:46,010

for coming along being reporters in

1622

01:00:50,770 --> 01:00:48,380

those reports are coming up but for this

1623

01:00:52,330 --> 01:00:50,780

week on the where are we on the m5

1624

01:00:58,580 --> 01:00:52,340

motorway heading into city this is

1625

01:01:06,000 --> 01:01:00,990

you've been listening to the skeptic

1626

01:01:09,780 --> 01:01:06,010

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