

The Skeptic Zone

Show 226 - 16 Feb 2013



Dr Krissy Wilson

1
00:00:13,879 --> 00:00:04,400
right everyone buckle up back there yes

2
00:00:16,550 --> 00:00:13,889
dad welcome to the skeptic zone the

3
00:00:28,170 --> 00:00:16,560
podcast from Australia for science and

4
00:00:34,540 --> 00:00:31,090
hello and welcome to the skeptic zone

5
00:00:38,710 --> 00:00:34,550
episode number 226 for the 16th of

6
00:00:41,620 --> 00:00:38,720
februari 2013 Richard Saunders here with

7
00:00:44,410 --> 00:00:41,630
you from Sydney Australia and yes that

8
00:00:45,910 --> 00:00:44,420
was another little tease for solar flare

9
00:00:48,490 --> 00:00:45,920
at the beginning of the show what is

10
00:00:52,299 --> 00:00:48,500
main are doing with all of us being

11
00:00:53,530 --> 00:00:52,309
buckled up boggles the mind we're going

12
00:00:55,510 --> 00:00:53,540
to kick off today's show with an

13
00:00:57,850 --> 00:00:55,520

interview with a very dear friend of

14

00:01:01,270 --> 00:00:57,860

mine dr. chrissy wilson who was on the

15

00:01:03,700 --> 00:01:01,280

show 0 for 5 weeks ago dr. Chrissy's

16

00:01:07,120 --> 00:01:03,710

going to tell us more about her soap

17

00:01:11,710 --> 00:01:07,130

activities soap science of animalistic

18

00:01:14,920 --> 00:01:11,720

phenomena and how you can help her

19

00:01:18,580 --> 00:01:14,930

scientific research after that it's

20

00:01:20,380 --> 00:01:18,590

Maynard up in Newcastle which is the

21

00:01:24,330 --> 00:01:20,390

major city just for the north of Sydney

22

00:01:26,590 --> 00:01:24,340

where he attended a science in the pub I

23

00:01:28,360 --> 00:01:26,600

think may not likes going to the pub

24

00:01:31,120 --> 00:01:28,370

especially when they're skeptics and

25

00:01:33,430 --> 00:01:31,130

scientists involved science in the pub

26
00:01:36,400 --> 00:01:33,440
with Maynard getting the reactions from

27
00:01:40,030 --> 00:01:36,410
various pub goers and what they thought

28
00:01:41,680 --> 00:01:40,040
of the science in the pub idea then

29
00:01:43,390 --> 00:01:41,690
throughout off the show another dear old

30
00:01:45,790 --> 00:01:43,400
friend of mine dr. Paul Willis who's the

31
00:01:48,490 --> 00:01:45,800
director of the Royal Institution of

32
00:01:51,730 --> 00:01:48,500
Australia in Adelaide bringing science

33
00:01:52,990 --> 00:01:51,740
to people and people to science Paul's

34
00:01:55,350 --> 00:01:53,000
going to tell us about the recent

35
00:01:58,960 --> 00:01:55,360
activities at the Royal Institution and

36
00:02:02,020 --> 00:01:58,970
the latest findings into the extinction

37
00:02:04,360 --> 00:02:02,030
of the dinosaurs that's coming up at the

38
00:02:06,490 --> 00:02:04,370

end of the show now let me take this

39

00:02:08,559 --> 00:02:06,500

opportunity to send out a huge

40

00:02:11,350 --> 00:02:08,569

congratulations and all my love and good

41

00:02:13,449 --> 00:02:11,360

wishes to my dear friends Jay and

42

00:02:15,400 --> 00:02:13,459

Courtney novella and the wonderful news

43

00:02:18,040 --> 00:02:15,410

of the birth of their son Dylan Wow the

44

00:02:20,430 --> 00:02:18,050

pictures look fantastic I can't wait to

45

00:02:23,259 --> 00:02:20,440

meet him I can't wait to meet him

46

00:02:26,979 --> 00:02:23,269

congratulations Jay and Courtney what

47

00:02:29,350 --> 00:02:26,989

wonderful news I was in fact I was part

48

00:02:32,140 --> 00:02:29,360

of the little group gathered at the

49

00:02:35,350 --> 00:02:32,150

sydney opera house Jay when you propose

50

00:02:39,790 --> 00:02:35,360

to Courtney in just before Tam in fact

51
00:02:42,250 --> 00:02:39,800
Tim Australia in 2010 Wow fantastic news

52
00:02:45,880 --> 00:02:42,260
and some interesting news for people in

53
00:02:49,120 --> 00:02:45,890
Australia especially if you fancy

54
00:02:51,250 --> 00:02:49,130
yourself to be a water diviner can you

55
00:02:53,170 --> 00:02:51,260
find water or gold with the divining rod

56
00:02:56,320 --> 00:02:53,180
that's the question Australian skeptics

57
00:02:57,700 --> 00:02:56,330
are asking and we have a challenge the

58
00:02:59,830 --> 00:02:57,710
challenge will be held at MIT emitter

59
00:03:03,520 --> 00:02:59,840
Victoria on the tenth of March this year

60
00:03:08,770 --> 00:03:03,530
2013 so we're asking for water diviners

61
00:03:10,540 --> 00:03:08,780
to come along have a go test your skills

62
00:03:13,320 --> 00:03:10,550
and who knows you might be up for our

63
00:03:17,560 --> 00:03:13,330

prize money of I think it's looking like

64

00:03:18,880 --> 00:03:17,570

110 thousand dollars at the moment now

65

00:03:21,460 --> 00:03:18,890

mid emitter is a wonderful little

66

00:03:23,830 --> 00:03:21,470

country town and the water divining

67

00:03:26,710 --> 00:03:23,840

tests going to be part of the mighty

68

00:03:30,970 --> 00:03:26,720

meter master and midam it is not too far

69

00:03:33,340 --> 00:03:30,980

outside of the Albury Wodonga area so if

70

00:03:37,060 --> 00:03:33,350

you are awarded a vaina or you know what

71

00:03:44,140 --> 00:03:37,070

a diviner contact laurie smith and his

72

00:03:53,350 --> 00:03:44,150

phone number is zero to 60 7 2 3 4 15 or

73

00:03:56,680 --> 00:03:53,360

email him at CA ll a G H a NS 1 at gmail

74

00:04:00,010 --> 00:03:56,690

com find out some more information turn

75

00:04:01,870 --> 00:04:00,020

up on the day on the tenth of March 2013

76

00:04:05,130 --> 00:04:01,880

at millimeter take part in the

77

00:04:08,140 --> 00:04:05,140

Australian skeptics water divining

78

00:04:10,420 --> 00:04:08,150

challenge well my voice running out the

79

00:04:12,070 --> 00:04:10,430

door I don't know why must be all that

80

00:04:14,949 --> 00:04:12,080

singing and yelling I been doing lately

81

00:04:18,190 --> 00:04:14,959

I think I'll run downstairs have a nice

82

00:04:35,939 --> 00:04:18,200

glass of peppermint tea while you enjoy

83

00:04:42,730 --> 00:04:40,330

hello my name is dr. Kris e wilson and i

84

00:04:44,680 --> 00:04:42,740

am a lecturer in psychology here at

85

00:04:48,070 --> 00:04:44,690

charles sturt university of the

86

00:04:50,170 --> 00:04:48,080

beautiful albury-wodonga campus my area

87

00:04:52,150 --> 00:04:50,180

of expertise is known as animalistic

88

00:04:54,550 --> 00:04:52,160

psychology which I bet most of you

89

00:04:56,939 --> 00:04:54,560

haven't heard of but I'm sure you'll

90

00:04:58,680 --> 00:04:56,949

have heard of parapsychology

91

00:05:01,030 --> 00:04:58,690

parapsychology tends to be very

92

00:05:03,490 --> 00:05:01,040

sympathetic towards claims of the

93

00:05:06,340 --> 00:05:03,500

paranormal towards claims of psychic

94

00:05:08,920 --> 00:05:06,350

forces and related phenomena whereas

95

00:05:11,710 --> 00:05:08,930

animalistic psychology is far more

96

00:05:14,170 --> 00:05:11,720

skeptical in its approach tending rather

97

00:05:17,140 --> 00:05:14,180

to look for psychological and in some

98

00:05:19,060 --> 00:05:17,150

cases physiological reasons why some

99

00:05:22,450 --> 00:05:19,070

people believe in weird and wonderful

100

00:05:24,610 --> 00:05:22,460

things essentially what I'm trying to do

101
00:05:29,260 --> 00:05:24,620
is to try and understand the psychology

102
00:05:32,469 --> 00:05:29,270
of belief earlier this year I set up a

103
00:05:34,540 --> 00:05:32,479
brand new research unit here at CSU

104
00:05:39,190 --> 00:05:34,550
called the science of animalistic

105
00:05:41,980 --> 00:05:39,200
phenomena or soap soaps aim is to

106
00:05:44,379 --> 00:05:41,990
investigate a psychology of belief to

107
00:05:46,719 --> 00:05:44,389
explore some of those reasons why people

108
00:05:48,490 --> 00:05:46,729
believe in weird and wonderful things to

109
00:05:50,980 --> 00:05:48,500
look at individual difference measures

110
00:05:53,320 --> 00:05:50,990
to look at biological factors to look at

111
00:05:56,490 --> 00:05:53,330
the role of cognition not only in belief

112
00:06:00,580 --> 00:05:56,500
but to explore the nature of ostensibly

113
00:06:02,469 --> 00:06:00,590

paranormal experiences so thanks for

114

00:06:04,060 --> 00:06:02,479

logging on to the soap website today I

115

00:06:05,890 --> 00:06:04,070

hope you'll find some fun and

116

00:06:08,290 --> 00:06:05,900

interesting information for you to look

117

00:06:10,510 --> 00:06:08,300

at you can check out who the members of

118

00:06:12,279 --> 00:06:10,520

soap are you can find out what kind of

119

00:06:14,650 --> 00:06:12,289

activities and what kind of studies

120

00:06:16,420 --> 00:06:14,660

we're running here you can also look at

121

00:06:19,210 --> 00:06:16,430

some interesting publications that I've

122

00:06:21,400 --> 00:06:19,220

uploaded for you interesting articles on

123

00:06:23,290 --> 00:06:21,410

all kinds of information about the

124

00:06:26,140 --> 00:06:23,300

psychology of belief and related

125

00:06:28,150 --> 00:06:26,150

phenomena most importantly though I'd

126
00:06:30,820 --> 00:06:28,160
like you to have a look at our research

127
00:06:32,890 --> 00:06:30,830
participation if you'd like to take part

128
00:06:35,320 --> 00:06:32,900
in any of our studies simply follow the

129
00:06:37,060 --> 00:06:35,330
links it'll only take about 15 or 20

130
00:06:37,719 --> 00:06:37,070
minutes for you to complete one of our

131
00:06:39,879 --> 00:06:37,729
survey

132
00:06:41,379 --> 00:06:39,889
I hope you have fun with it and thanks

133
00:06:50,379 --> 00:06:41,389
very much for logging on today and

134
00:06:52,749 --> 00:06:50,389
welcome to soap and joining me now from

135
00:06:54,339 --> 00:06:52,759
the beautiful city of Aubree in southern

136
00:06:57,790 --> 00:06:54,349
New South Wales right on the border of

137
00:07:00,549 --> 00:06:57,800
Victoria it's dr. Chrissy Wilson hello

138
00:07:02,499 --> 00:07:00,559

Chrissy hello Richard hello listeners

139

00:07:04,239 --> 00:07:02,509

well it's great to catch up with you

140

00:07:06,070 --> 00:07:04,249

again Chrissy in fact I had a wonderful

141

00:07:10,119 --> 00:07:06,080

time about a year ago when i went down

142

00:07:12,129 --> 00:07:10,129

to albury there to help you launch soap

143

00:07:14,679 --> 00:07:12,139

now can you remind our listeners all

144

00:07:17,439 --> 00:07:14,689

about soap well I can't believe it's

145

00:07:19,570 --> 00:07:17,449

actually been a whole year since since

146

00:07:22,329 --> 00:07:19,580

we launched soap but yes to remind

147

00:07:25,389 --> 00:07:22,339

listeners um so stands for the science

148

00:07:27,610 --> 00:07:25,399

of animalistic phenomena and as you know

149

00:07:30,219 --> 00:07:27,620

Richard since I arrived in Australia

150

00:07:32,110 --> 00:07:30,229

about five years ago that I wanted to

151
00:07:35,769 --> 00:07:32,120
set up my own unit because although

152
00:07:38,079 --> 00:07:35,779
although skepticism is is is alive and

153
00:07:40,510 --> 00:07:38,089
very very well and very very active in

154
00:07:44,679 --> 00:07:40,520
Australia we don't have in Australia a

155
00:07:47,019 --> 00:07:44,689
sort of academic base for investigations

156
00:07:49,389 --> 00:07:47,029
into the paranormal and the psychology

157
00:07:51,459 --> 00:07:49,399
of belief so that's and we do in Europe

158
00:07:53,889 --> 00:07:51,469
pc and in america but we don't really

159
00:07:58,209 --> 00:07:53,899
have that here in australia so when i

160
00:07:59,829 --> 00:07:58,219
arrived um it's been my my wish to do

161
00:08:01,869 --> 00:07:59,839
that my vision if you like to get that

162
00:08:03,639 --> 00:08:01,879
settled and now that i'm settled at

163
00:08:05,860 --> 00:08:03,649

charles sturt university here in aubrey

164

00:08:07,809 --> 00:08:05,870

they've been really supportive and so

165

00:08:09,549 --> 00:08:07,819

they've allowed me to set up the the

166

00:08:12,189 --> 00:08:09,559

unit here it's part of the school of

167

00:08:14,350 --> 00:08:12,199

psychology it's called soap science of a

168

00:08:18,189 --> 00:08:14,360

normal istic phenomena and and it's

169

00:08:21,339 --> 00:08:18,199

basically investigating the science of

170

00:08:24,040 --> 00:08:21,349

belief why do people believe in weird

171

00:08:27,010 --> 00:08:24,050

and wonderful things not only in their

172

00:08:30,670 --> 00:08:27,020

beliefs but in their experiences and I

173

00:08:33,040 --> 00:08:30,680

say this a lot that I'm I'm not a

174

00:08:34,959 --> 00:08:33,050

parapsychologist as you know I am NOT

175

00:08:37,449 --> 00:08:34,969

trying to prove where the psychic

176

00:08:40,300 --> 00:08:37,459

phenomena is real or is not real what

177

00:08:43,120 --> 00:08:40,310

I'm interested in is why people believe

178

00:08:46,179 --> 00:08:43,130

in these things where do their beliefs

179

00:08:48,590 --> 00:08:46,189

begin how are they maintained what types

180

00:08:50,689 --> 00:08:48,600

of experiences that people have and

181

00:08:52,430 --> 00:08:50,699

is it possible that there are some of us

182

00:08:54,620 --> 00:08:52,440

that are more susceptible to believing

183

00:08:57,110 --> 00:08:54,630

in these types of extraordinary

184

00:09:01,340 --> 00:08:57,120

phenomena so that's that was my aim and

185

00:09:03,710 --> 00:09:01,350

a year ago we had the launch as you know

186

00:09:05,120 --> 00:09:03,720

and you came down and gave a wonderful

187

00:09:08,259 --> 00:09:05,130

demonstration and we had a little talk

188

00:09:12,530 --> 00:09:08,269

and we had a little debate amongst the

189

00:09:14,960 --> 00:09:12,540

audience and the main purpose of that

190

00:09:17,389 --> 00:09:14,970

launch was one to have this kind of

191

00:09:19,579 --> 00:09:17,399

symbolic launch which was was important

192

00:09:22,009 --> 00:09:19,589

and also to get the media interest but

193

00:09:25,249 --> 00:09:22,019

it was also to recruit participants

194

00:09:28,220 --> 00:09:25,259

because i want the local rural community

195

00:09:30,410 --> 00:09:28,230

to take part in the studies believers

196

00:09:32,150 --> 00:09:30,420

and non-believers and all points in

197

00:09:33,199 --> 00:09:32,160

between so because that's what we're

198

00:09:35,210 --> 00:09:33,209

looking for we're looking for

199

00:09:36,800 --> 00:09:35,220

similarities and differences so i won't

200

00:09:39,410 --> 00:09:36,810

believers non-believers and everybody in

201
00:09:41,840 --> 00:09:39,420
between so from that point of view it

202
00:09:43,999 --> 00:09:41,850
was very successful yeah i've now got a

203
00:09:48,230 --> 00:09:44,009
database of participants probably about

204
00:09:50,960 --> 00:09:48,240
90 people from lot different areas not

205
00:09:52,910 --> 00:09:50,970
not just in in the albury New South

206
00:09:54,620 --> 00:09:52,920
Wales region but across Australia are

207
00:09:56,689 --> 00:09:54,630
actually people that have heard about so

208
00:09:59,660 --> 00:09:56,699
by the through Twitter or three yourself

209
00:10:02,870 --> 00:09:59,670
or through websites etc so in its

210
00:10:05,120 --> 00:10:02,880
growing it takes a while like everything

211
00:10:06,740 --> 00:10:05,130
else you know it takes a while lots of

212
00:10:09,319 --> 00:10:06,750
hard work but but we're definitely

213
00:10:12,259 --> 00:10:09,329

getting there so it's very exciting it

214

00:10:14,059 --> 00:10:12,269

is and you were our guest on the

215

00:10:15,379 --> 00:10:14,069

skeptics Island Oh only a couple of

216

00:10:17,780 --> 00:10:15,389

weeks ago may three or four weeks ago

217

00:10:20,179 --> 00:10:17,790

when you were chatting to Maynard about

218

00:10:21,829 --> 00:10:20,189

some of the things you get up to and I

219

00:10:24,139 --> 00:10:21,839

particularly will remember that you went

220

00:10:26,840 --> 00:10:24,149

to see a certain shall we say a certain

221

00:10:30,050 --> 00:10:26,850

psychic who who you are less than

222

00:10:34,220 --> 00:10:30,060

impressed with and stood up and made

223

00:10:36,889 --> 00:10:34,230

your views known yeah you could say that

224

00:10:40,460 --> 00:10:36,899

um don't really want to reveal the chaps

225

00:10:43,759 --> 00:10:40,470

net earth person's name but let's just

226

00:10:46,519 --> 00:10:43,769

say that he wasn't exactly Australia's

227

00:10:49,730 --> 00:10:46,529

number one I'd say it was more like

228

00:10:51,499 --> 00:10:49,740

Australia's biggest number two Oh Deary

229

00:10:53,689 --> 00:10:51,509

me I wouldn't I wonder what that could

230

00:10:55,280 --> 00:10:53,699

mean oh well you know when you're number

231

00:10:58,189 --> 00:10:55,290

two you always try harder to be number

232

00:11:00,350 --> 00:10:58,199

one don't you that's the well he was

233

00:11:02,720 --> 00:11:00,360

certainly trying I'll give you the

234

00:11:04,220 --> 00:11:02,730

and the point the point I'll get to is

235

00:11:06,050 --> 00:11:04,230

that no matter who it is and of course

236

00:11:08,690 --> 00:11:06,060

I've seen many of these people over the

237

00:11:10,880 --> 00:11:08,700

years of various stage shows and one of

238

00:11:12,680 --> 00:11:10,890

my bugbears one of the things I think is

239

00:11:16,610 --> 00:11:12,690

a great pity is often I'll go and see

240

00:11:18,769 --> 00:11:16,620

these performers at what we call our RSL

241

00:11:21,350 --> 00:11:18,779

club which is a club devoted to the

242

00:11:25,190 --> 00:11:21,360

memory of fallen soldiers and returned

243

00:11:26,840 --> 00:11:25,200

soldiers you know yes particularly after

244

00:11:30,380 --> 00:11:26,850

World War two but every war since then

245

00:11:33,079 --> 00:11:30,390

and to have these performers go to these

246

00:11:35,509 --> 00:11:33,089

clubs which are dedicated to the solemn

247

00:11:37,940 --> 00:11:35,519

memory of fallen soldiers and then to

248

00:11:41,509 --> 00:11:37,950

pretend to chat to dead people I always

249

00:11:43,040 --> 00:11:41,519

thought was really really really bad

250

00:11:44,480 --> 00:11:43,050

taste so if anybody's listening out

251
00:11:48,170 --> 00:11:44,490
there involved with the RSL club

252
00:11:50,620 --> 00:11:48,180
movement that you know I'm not very

253
00:11:54,710 --> 00:11:50,630
impressed with that at all no it's um

254
00:11:57,800 --> 00:11:54,720
you know I i try to be an open minded

255
00:12:01,040 --> 00:11:57,810
objective social scientist in all that i

256
00:12:02,300 --> 00:12:01,050
do i tried to keep emotion out of it

257
00:12:03,980 --> 00:12:02,310
because the minute you start to get

258
00:12:07,280 --> 00:12:03,990
emotional about things then you lose

259
00:12:10,100 --> 00:12:07,290
your sense of a probe of proportion you

260
00:12:11,329 --> 00:12:10,110
you you become bias in your view and as

261
00:12:13,519 --> 00:12:11,339
you know in science we have to be

262
00:12:17,420 --> 00:12:13,529
objective but this is the one thing that

263
00:12:19,189 --> 00:12:17,430

that really gets me very very cross to

264

00:12:23,030 --> 00:12:19,199

sit in the audience and to watch this

265

00:12:25,220 --> 00:12:23,040

clown on the stage spouting complete

266

00:12:27,829 --> 00:12:25,230

nonsense while there's a poor woman in

267

00:12:30,560 --> 00:12:27,839

the audience crying sobbing a little

268

00:12:33,949 --> 00:12:30,570

heart out because she believes that this

269

00:12:36,530 --> 00:12:33,959

idiot is talking to the spirit of her

270

00:12:39,620 --> 00:12:36,540

dead husband or a dead child it's it's

271

00:12:43,000 --> 00:12:39,630

it's just it's so objectionable to watch

272

00:12:45,650 --> 00:12:43,010

and I find it very very distressing and

273

00:12:49,120 --> 00:12:45,660

yet when I went to see the certain

274

00:12:51,500 --> 00:12:49,130

person who came to the Aubrey

275

00:12:54,380 --> 00:12:51,510

entertainment center yes we do have an

276

00:12:58,250 --> 00:12:54,390

entertainment center that's not on thick

277

00:13:00,050 --> 00:12:58,260

thick term and you know I was I was

278

00:13:03,199 --> 00:13:00,060

looking forward to it although I

279

00:13:05,449 --> 00:13:03,209

couldn't wait to watch and to see what

280

00:13:08,870 --> 00:13:05,459

what he got up to I knew it was going to

281

00:13:12,139 --> 00:13:08,880

be I knew ya how more when you and I go

282

00:13:14,329 --> 00:13:12,149

and see something like this not to

283

00:13:16,579 --> 00:13:14,339

demean the average skeptic out there but

284

00:13:19,429 --> 00:13:16,589

think that I'm right in saying that you

285

00:13:22,400 --> 00:13:19,439

and I and some other skeptics I've had a

286

00:13:25,100 --> 00:13:22,410

particular backlog of experience in

287

00:13:28,970 --> 00:13:25,110

watching these people so we're able to

288

00:13:30,860 --> 00:13:28,980

with our experience know and recognize

289

00:13:33,350 --> 00:13:30,870

and see certain techniques and

290

00:13:35,809 --> 00:13:33,360

psychological tricks being used oh yeah

291

00:13:39,400 --> 00:13:35,819

and this guy I'll give him his due and

292

00:13:42,499 --> 00:13:39,410

he's very clever he knows exactly how to

293

00:13:45,350 --> 00:13:42,509

manipulate the audience he has all the

294

00:13:47,449 --> 00:13:45,360

tricks he doesn't cold read Richard he

295

00:13:50,840 --> 00:13:47,459

doesn't need to cold read he just stands

296

00:13:52,730 --> 00:13:50,850

there and and make suggestions yeah and

297

00:13:55,549 --> 00:13:52,740

then of course the audience just give

298

00:13:58,220 --> 00:13:55,559

him as always just give him all the

299

00:14:00,170 --> 00:13:58,230

material yeah he doesn't actually cold

300

00:14:02,989 --> 00:14:00,180

read he's not he's not even good enough

301
00:14:05,660 --> 00:14:02,999
to do that and then they don't have to

302
00:14:08,239 --> 00:14:05,670
be today no no because the audience are

303
00:14:11,540 --> 00:14:08,249
primed the pre-sold yeah yeah this

304
00:14:14,600 --> 00:14:11,550
character what he does also is he he has

305
00:14:16,519 --> 00:14:14,610
a VIP session that's what he calls on

306
00:14:19,730 --> 00:14:16,529
his website come along and meet me in

307
00:14:22,759 --> 00:14:19,740
the VIP session before the actual show

308
00:14:25,100 --> 00:14:22,769
so he gets a bunts a bunch of his fans

309
00:14:27,799 --> 00:14:25,110
they all trot along and and apparently

310
00:14:30,949 --> 00:14:27,809
there was about 25 of them but this VIP

311
00:14:33,230 --> 00:14:30,959
session they sit there and then he he

312
00:14:34,970 --> 00:14:33,240
chats to them you know and he disclosed

313
00:14:36,710 --> 00:14:34,980

his personal information about himself

314

00:14:38,480 --> 00:14:36,720

so well you know this is what happened

315

00:14:39,949 --> 00:14:38,490

to me this is how i became a psychic

316

00:14:42,829 --> 00:14:39,959

this is how I discovered you know that I

317

00:14:46,730 --> 00:14:42,839

had this gift and and he just chats to

318

00:14:48,590 --> 00:14:46,740

the audience and naturally these the

319

00:14:50,749 --> 00:14:48,600

people open up and they give him all

320

00:14:54,679 --> 00:14:50,759

sorts of information about the area

321

00:14:56,869 --> 00:14:54,689

about them personally so he's got all

322

00:14:59,629 --> 00:14:56,879

kinds of material there so during the

323

00:15:02,179 --> 00:14:59,639

show if it all goes a bit quiet if it

324

00:15:05,449 --> 00:15:02,189

doesn't go to plan he's got this wealth

325

00:15:08,900 --> 00:15:05,459

of material that he's collected just an

326

00:15:11,749 --> 00:15:08,910

hour before that he he can use oh well

327

00:15:13,610 --> 00:15:11,759

I'm getting getting a suicide you know

328

00:15:16,069 --> 00:15:13,620

like look you know this is rural New

329

00:15:19,309 --> 00:15:16,079

South Wales unfortunately suicide is a

330

00:15:21,650 --> 00:15:19,319

is a an issue here so that that was the

331

00:15:23,539 --> 00:15:21,660

very first thing he did I think what I

332

00:15:25,970 --> 00:15:23,549

think I'd twittered it actually I bet he

333

00:15:27,639 --> 00:15:25,980

does a suicide in a man in uniform yeah

334

00:15:30,129 --> 00:15:27,649

star for now the very

335

00:15:37,600 --> 00:15:30,139

first one he did was a suicide dear

336

00:15:39,480 --> 00:15:37,610

there was steam well you got to extend

337

00:15:42,549 --> 00:15:39,490

that you actually stood up and

338

00:15:45,790 --> 00:15:42,559

challenged him it's something I i I've

339

00:15:49,720 --> 00:15:45,800

been tempted to do quite a few times the

340

00:15:51,280 --> 00:15:49,730

the worst time was when and I've written

341

00:15:53,739 --> 00:15:51,290

about this many years ago it was a

342

00:15:56,319 --> 00:15:53,749

psychic by the name of the amazing

343

00:15:58,329 --> 00:15:56,329

valdir suggested to the audience that

344

00:16:01,629 --> 00:15:58,339

the dead from 9-11 were running around

345

00:16:03,369 --> 00:16:01,639

the auditorium it's the one time I had I

346

00:16:05,549 --> 00:16:03,379

gripped the handles of my chair to stop

347

00:16:08,199 --> 00:16:05,559

myself standing up because I wanted to

348

00:16:10,660 --> 00:16:08,209

do a whole routine then i could write

349

00:16:14,019 --> 00:16:10,670

about it which i did but one day you

350

00:16:15,879 --> 00:16:14,029

know one day I might say the hell with

351

00:16:19,989 --> 00:16:15,889

it stand up and Blass one of these

352

00:16:21,840 --> 00:16:19,999

people but yeah do any good very good it

353

00:16:25,239 --> 00:16:21,850

doesn't is it and someone said to me

354

00:16:28,059 --> 00:16:25,249

previously if you challenge these people

355

00:16:29,949 --> 00:16:28,069

in front of their followers all you're

356

00:16:31,900 --> 00:16:29,959

doing is you're making a martyr out of

357

00:16:33,819 --> 00:16:31,910

them and this is exactly what happened

358

00:16:35,860 --> 00:16:33,829

everybody in your just screaming at me

359

00:16:39,009 --> 00:16:35,870

I'll sit down why did you come get lost

360

00:16:40,869 --> 00:16:39,019

get out of here trash you know and I

361

00:16:42,910 --> 00:16:40,879

turned to them and I said what I don't

362

00:16:45,069 --> 00:16:42,920

you want to know don't you want to know

363

00:16:47,619 --> 00:16:45,079

if you're being formed don't you want to

364

00:16:50,590 --> 00:16:47,629

know if you're just having the Mickey

365

00:16:56,910 --> 00:16:50,600

taken out of you yeah and for a split

366

00:17:00,220 --> 00:16:56,920

second you know they seem to think no no

367

00:17:01,869 --> 00:17:00,230

but at the end of it several people came

368

00:17:03,489 --> 00:17:01,879

up to me afterwards and I thought oh

369

00:17:05,439 --> 00:17:03,499

here we go I'm going to get thumped at

370

00:17:07,480 --> 00:17:05,449

the very least but they just asked me

371

00:17:10,569 --> 00:17:07,490

questions I wanted to know where why are

372

00:17:12,939 --> 00:17:10,579

you so sure that this is not real you

373

00:17:15,760 --> 00:17:12,949

know said there was seeds of doubt in

374

00:17:18,639 --> 00:17:15,770

some of their minds for sure but like I

375

00:17:21,850 --> 00:17:18,649

said for the majority of the audience um

376

00:17:23,919 --> 00:17:21,860

I was just making him into a martyr and

377

00:17:26,350 --> 00:17:23,929

then of course he he stood there and he

378

00:17:28,510 --> 00:17:26,360

said oh don't worry ladies gentlemen you

379

00:17:30,310 --> 00:17:28,520

know I'm used to this kind of criticism

380

00:17:33,460 --> 00:17:30,320

you know it's just it just comes with

381

00:17:35,019 --> 00:17:33,470

the territory i'm afraid you know really

382

00:17:36,700 --> 00:17:35,029

i find that i find that hard to believe

383

00:17:40,299 --> 00:17:36,710

i think he would very rarely get any

384

00:17:40,799 --> 00:17:40,309

criticism at all uh well uh eighteen

385

00:17:44,249 --> 00:17:40,809

years

386

00:17:47,159 --> 00:17:44,259

he knew perfectly well that there was

387

00:17:50,039 --> 00:17:47,169

nothing that I could say that would turn

388

00:17:52,799 --> 00:17:50,049

the oil against him and and his his

389

00:17:55,289 --> 00:17:52,809

management were very very switched on as

390

00:17:57,330 --> 00:17:55,299

well they knew exactly how to handle the

391

00:17:59,730 --> 00:17:57,340

situation they were very switched on a

392

00:18:02,039 --> 00:17:59,740

name I've looked them up on the internet

393

00:18:05,129 --> 00:18:02,049

and they they manage a lot of psychics

394

00:18:06,989 --> 00:18:05,139

alleged psychic yeah interesting well

395

00:18:09,570 --> 00:18:06,999

this is let's get back to soap because

396

00:18:13,169 --> 00:18:09,580

this is all ties in and the reason you

397

00:18:15,480 --> 00:18:13,179

go along and see is to observe the the

398

00:18:18,869 --> 00:18:15,490

the performer in action that shall we

399

00:18:20,700 --> 00:18:18,879

say but also the experience you get from

400

00:18:22,470 --> 00:18:20,710

your interaction of the audience's I

401
00:18:24,840 --> 00:18:22,480
think would be invaluable research for

402
00:18:27,539 --> 00:18:24,850
your soap activities yeah absolutely i

403
00:18:30,330 --> 00:18:27,549
mean i am oh yes i'm a skeptic but i am

404
00:18:33,509 --> 00:18:30,340
a psychologist so the whole psychology

405
00:18:37,859 --> 00:18:33,519
of the situation is is fascinating for

406
00:18:39,239 --> 00:18:37,869
me you know how an it the more i look at

407
00:18:40,619 --> 00:18:39,249
this and the more i study and

408
00:18:43,019 --> 00:18:40,629
investigate these things the more i

409
00:18:47,100 --> 00:18:43,029
realize that it has nothing to do with

410
00:18:51,629 --> 00:18:47,110
age gender social economic background

411
00:18:54,989 --> 00:18:51,639
education intelligence you know so many

412
00:18:58,830 --> 00:18:54,999
of us believe in something which is

413
00:19:03,869 --> 00:18:58,840

probably not real you know it's it we're

414

00:19:06,989 --> 00:19:03,879

all susceptible to being influenced by

415

00:19:10,619 --> 00:19:06,999

our own prejudices if you like we're

416

00:19:13,980 --> 00:19:10,629

also susceptible to these things so yet

417

00:19:15,840 --> 00:19:13,990

that certainly it does fuel my research

418

00:19:17,759 --> 00:19:15,850

with without the shadow of a doubt you

419

00:19:20,609 --> 00:19:17,769

know what what psychological processes

420

00:19:22,950 --> 00:19:20,619

are going on there and what draws

421

00:19:24,480 --> 00:19:22,960

certain individuals to these types of

422

00:19:27,330 --> 00:19:24,490

beliefs and how are these beliefs

423

00:19:30,210 --> 00:19:27,340

maintained and I'm not a clinical

424

00:19:33,269 --> 00:19:30,220

psychologist and that's that's a

425

00:19:36,090 --> 00:19:33,279

separate field so I don't specifically

426

00:19:37,590 --> 00:19:36,100

look at psychopathology and really I

427

00:19:40,019 --> 00:19:37,600

mean that's not what we're talking about

428

00:19:41,450 --> 00:19:40,029

here anyway you know and people that

429

00:19:43,230 --> 00:19:41,460

believe that are not necessarily

430

00:19:44,639 --> 00:19:43,240

suffering from some kind of mental

431

00:19:46,470 --> 00:19:44,649

disorder that's what I'm trying to say

432

00:19:48,779 --> 00:19:46,480

that you know we're all susceptible to

433

00:19:52,409 --> 00:19:48,789

these things and to some extent we all

434

00:19:54,090 --> 00:19:52,419

believe in something so yeah so most of

435

00:19:54,480 --> 00:19:54,100

the studies that were coming out at the

436

00:19:58,049 --> 00:19:54,490

moment

437

00:20:00,930 --> 00:19:58,059

and are mostly questionnaire studies so

438

00:20:03,390 --> 00:20:00,940

we send out lots of measures of sort of

439

00:20:06,419 --> 00:20:03,400

personality measures belief measures and

440

00:20:08,640 --> 00:20:06,429

we're basically measuring similarities

441

00:20:10,760 --> 00:20:08,650

and differences so for example the first

442

00:20:14,460 --> 00:20:10,770

one that I did was looking at well-being

443

00:20:16,919 --> 00:20:14,470

because I'm often asked well is it a

444

00:20:18,240 --> 00:20:16,929

good thing to have beliefs you know does

445

00:20:20,640 --> 00:20:18,250

it actually make people feel better

446

00:20:23,520 --> 00:20:20,650

about themselves and help them cope with

447

00:20:25,260 --> 00:20:23,530

with you know the the difficulty of

448

00:20:27,870 --> 00:20:25,270

modern life and to some extent I think

449

00:20:30,330 --> 00:20:27,880

it does and so I looked at subjective

450

00:20:32,130 --> 00:20:30,340

well-being and happiness scales and

451

00:20:33,780 --> 00:20:32,140

belief to see if there was any kind of

452

00:20:37,580 --> 00:20:33,790

correlation there and it turned out yes

453

00:20:39,840 --> 00:20:37,590

yes believers do appear to be happier

454

00:20:42,270 --> 00:20:39,850

getting back to what you're you're

455

00:20:44,040 --> 00:20:42,280

looking into why why is just taking off

456

00:20:47,250 --> 00:20:44,050

in certain cultures and certain people

457

00:20:48,900 --> 00:20:47,260

why do people think like this I I was

458

00:20:50,669 --> 00:20:48,910

just thinking also before wouldn't it be

459

00:20:52,260 --> 00:20:50,679

great and we haven't done it yet that

460

00:20:54,840 --> 00:20:52,270

you and I get together one day and go

461

00:20:56,880 --> 00:20:54,850

and see one of these performances I know

462

00:20:59,490 --> 00:20:56,890

how could you imagine that would be so

463

00:21:02,220 --> 00:20:59,500

much fun well I'd like to have I'd like

464

00:21:04,919 --> 00:21:02,230

to have the whole sort of second row of

465

00:21:07,830 --> 00:21:04,929

skipped just skeptics the whole robes

466

00:21:12,570 --> 00:21:07,840

gets old sattler arms folded hands full

467

00:21:14,250 --> 00:21:12,580

bring it on that's right for the next

468

00:21:17,160 --> 00:21:14,260

time the next time that certain person

469

00:21:20,130 --> 00:21:17,170

that I was talking about we comes on

470

00:21:23,460 --> 00:21:20,140

tour around New South Wales and Victoria

471

00:21:25,020 --> 00:21:23,470

then I'm determined to make sure that

472

00:21:26,630 --> 00:21:25,030

with you know there's a whole bunch of

473

00:21:29,520 --> 00:21:26,640

skeptics down there in the front row

474

00:21:31,350 --> 00:21:29,530

staring out and given a heart I do it

475

00:21:33,870 --> 00:21:31,360

I'll turn up and I'll put on my skeptic

476

00:21:36,000 --> 00:21:33,880

glasses and I'll cross my legs and fold

477

00:21:38,940 --> 00:21:36,010

my arms and get my notebook out that a

478

00:21:40,320 --> 00:21:38,950

little frightening yeah well that's what

479

00:21:43,680 --> 00:21:40,330

I did with this character i SAT there

480

00:21:45,390 --> 00:21:43,690

front row with a notepad huffing and

481

00:21:50,630 --> 00:21:45,400

puffing all the way through so right

482

00:21:54,090 --> 00:21:50,640

from the start he knew Bobby disgruntled

483

00:21:55,560 --> 00:21:54,100

little little participant that there was

484

00:21:58,110 --> 00:21:55,570

something wrong and they actually came

485

00:21:59,730 --> 00:21:58,120

to me with the microphone you know he he

486

00:22:01,049 --> 00:21:59,740

at the end of the show he said right

487

00:22:03,419 --> 00:22:01,059

well this is a question answer session

488

00:22:05,400 --> 00:22:03,429

you know that let's open up to the audio

489

00:22:07,440 --> 00:22:05,410

so straight away my arm went straight up

490

00:22:09,360 --> 00:22:07,450

and they came straight to me

491

00:22:12,029 --> 00:22:09,370

add to them so they had noticed already

492

00:22:14,870 --> 00:22:12,039

that right that little weird little

493

00:22:18,539 --> 00:22:14,880

woman in the front what's up with her

494

00:22:20,879 --> 00:22:18,549

what what what fun what fun now Chrissy

495

00:22:25,620 --> 00:22:20,889

how do I know listeners find out more

496

00:22:28,049 --> 00:22:25,630

and aid in your research at soap yes or

497

00:22:30,149 --> 00:22:28,059

I'm rambling on as I always do and

498

00:22:33,269 --> 00:22:30,159

getting off the point the point is soap

499

00:22:35,730 --> 00:22:33,279

yes soap soap soap um we now have a

500

00:22:40,860 --> 00:22:35,740

wonderful website I say one foot is in

501
00:22:42,659 --> 00:22:40,870
his early stages yeah um it's it's you

502
00:22:44,639 --> 00:22:42,669
know we're trying to improve it and

503
00:22:46,919 --> 00:22:44,649
finally got it up and running but but

504
00:22:54,950 --> 00:22:46,929
it's in its early stages so it will get

505
00:22:58,230 --> 00:22:54,960
better and better the website is www.org

506
00:23:00,860 --> 00:22:58,240
dot a you oh that's easy to remember

507
00:23:03,080 --> 00:23:00,870
yeah well if you just Google soap

508
00:23:05,639 --> 00:23:03,090
unfortunately you'll get the Society of

509
00:23:08,430 --> 00:23:05,649
obstetrics and various other things so

510
00:23:10,379 --> 00:23:08,440
if you keep if you keep let soaked org

511
00:23:13,680 --> 00:23:10,389
you'll get science of animalistic

512
00:23:15,810 --> 00:23:13,690
phenomena and yet so you can log on to

513
00:23:17,759 --> 00:23:15,820

the website now I've got big plans for

514

00:23:21,299 --> 00:23:17,769

the web's website because one of the

515

00:23:23,129 --> 00:23:21,309

main reasons for doing it is less to

516

00:23:25,919 --> 00:23:23,139

carry out research but I also want it to

517

00:23:30,360 --> 00:23:25,929

be an educational tool so one people to

518

00:23:32,460 --> 00:23:30,370

be able to log on and to be able to link

519

00:23:35,450 --> 00:23:32,470

into lectures so I'm going to do a

520

00:23:38,669 --> 00:23:35,460

series of lectures on various

521

00:23:39,419 --> 00:23:38,679

anomalistic psychology issues so some of

522

00:23:41,100 --> 00:23:39,429

the things we've been talking about

523

00:23:43,980 --> 00:23:41,110

today but also about the history of

524

00:23:47,610 --> 00:23:43,990

parapsychology and all kinds of things

525

00:23:51,360 --> 00:23:47,620

relating to the science of belief so I'm

526

00:23:54,779 --> 00:23:51,370

going to record lectures and load them

527

00:23:57,690 --> 00:23:54,789

onto the website so people can tune in

528

00:23:59,039 --> 00:23:57,700

and listen to them we've also got a

529

00:24:02,310 --> 00:23:59,049

couple of videos up there there's a

530

00:24:03,570 --> 00:24:02,320

welcome video from the up there at the

531

00:24:06,750 --> 00:24:03,580

moment and a couple of other little

532

00:24:08,850 --> 00:24:06,760

things and we've got a video of the soap

533

00:24:10,620 --> 00:24:08,860

launch now it's an edited version it's

534

00:24:13,200 --> 00:24:10,630

only about 10 minutes or so just to give

535

00:24:16,830 --> 00:24:13,210

people an idea of what what it's all

536

00:24:19,049 --> 00:24:16,840

about and there's a link to research

537

00:24:21,100 --> 00:24:19,059

participation so if any of our gorgeous

538

00:24:24,460 --> 00:24:21,110

listeners would like to take part in

539

00:24:26,590 --> 00:24:24,470

any of the studies we've got one left up

540

00:24:27,700 --> 00:24:26,600

there at the moment and the next few

541

00:24:29,740 --> 00:24:27,710

weeks I'm going to load up another

542

00:24:31,299 --> 00:24:29,750

couple if anybody wants to take part all

543

00:24:34,330 --> 00:24:31,309

they have to do log on to the website

544

00:24:36,789 --> 00:24:34,340

click on research participation and that

545

00:24:38,710 --> 00:24:36,799

will take them straight to whatever

546

00:24:40,299 --> 00:24:38,720

studies we've got up on their the moment

547

00:24:42,220 --> 00:24:40,309

we've just got the one but in a couple

548

00:24:45,070 --> 00:24:42,230

of weeks time there'll be two or three

549

00:24:47,710 --> 00:24:45,080

more and they can just click on the link

550

00:24:50,410 --> 00:24:47,720

and then do the study and it does they

551
00:24:52,840 --> 00:24:50,420
don't have to be skeptics it can be

552
00:24:55,120 --> 00:24:52,850
anybody you know I don't just want

553
00:24:57,600 --> 00:24:55,130
skeptics to take part I want believers

554
00:24:59,799 --> 00:24:57,610
skeptics and all points in between so um

555
00:25:02,770 --> 00:24:59,809
you know anybody who wants to take part

556
00:25:06,340 --> 00:25:02,780
in the studies there's also an email

557
00:25:13,390 --> 00:25:06,350
account so if anybody wants to become a

558
00:25:17,909 --> 00:25:13,400
soap sud so the soap suds or soap studs

559
00:25:21,280 --> 00:25:17,919
as I keep cause of studs all right slip

560
00:25:23,710 --> 00:25:21,290
if anybody was become so absurd then

561
00:25:25,930 --> 00:25:23,720
they just send me their email address

562
00:25:28,150 --> 00:25:25,940
and then I'll put them onto the mailing

563
00:25:30,669 --> 00:25:28,160

list so whenever we have any sort of new

564

00:25:32,770 --> 00:25:30,679

lecture or a new event coming up or a

565

00:25:36,010 --> 00:25:32,780

new study then I can just send them the

566

00:25:39,130 --> 00:25:36,020

details excellent news Chrissy now it's

567

00:25:41,049 --> 00:25:39,140

really great and I should come and visit

568

00:25:42,820 --> 00:25:41,059

you in fact why don't I do that because

569

00:25:45,850 --> 00:25:42,830

I am coming to your neck of the woods

570

00:25:47,830 --> 00:25:45,860

you are put to take part in the mid amid

571

00:25:50,740 --> 00:25:47,840

awarded dividing challenge on the tenth

572

00:25:53,230 --> 00:25:50,750

of March and we can catch up then and

573

00:25:56,049 --> 00:25:53,240

talk about more so be things well let's

574

00:25:57,940 --> 00:25:56,059

do yeah let's do a little podcast ething

575

00:26:00,539 --> 00:25:57,950

for soap maybe I think that's a great

576

00:26:02,919 --> 00:26:00,549

idea and I'll stick that on there on the

577

00:26:06,130 --> 00:26:02,929

website and also I should say you know

578

00:26:09,100 --> 00:26:06,140

if anybody's got any suggestions um

579

00:26:12,039 --> 00:26:09,110

about things they'd like to know about

580

00:26:14,430 --> 00:26:12,049

belief in the paranormal you know any

581

00:26:17,440 --> 00:26:14,440

kind of ideas for studies I have always

582

00:26:19,270 --> 00:26:17,450

open to ideas about the kinds of

583

00:26:21,730 --> 00:26:19,280

directions we can go in and types of

584

00:26:23,350 --> 00:26:21,740

studies that I can carry out I've got

585

00:26:26,650 --> 00:26:23,360

quite there's quite a few things planned

586

00:26:29,710 --> 00:26:26,660

for this year looking at cognitive

587

00:26:31,180 --> 00:26:29,720

biases biological biases and various

588

00:26:33,730 --> 00:26:31,190

other things but I'm always open to

589

00:26:35,440 --> 00:26:33,740

suggestion so if any of the listeners

590

00:26:40,630 --> 00:26:35,450

but would like to suggest something then

591

00:26:44,490 --> 00:26:40,640

just email me at k wilson at CSU dot ed

592

00:26:47,260 --> 00:26:44,500

u ju and always happy to get suggestions

593

00:26:51,970 --> 00:26:47,270

excellent chrissy wilson from soap and

594

00:26:53,380 --> 00:26:51,980

ww so GU thank you once again for being

595

00:26:55,450 --> 00:26:53,390

on the skeptic zone you're actually

596

00:26:56,820 --> 00:26:55,460

technically our roving reporter so we'll

597

00:27:00,040 --> 00:26:56,830

have to get a few reports out of it

598

00:27:02,919 --> 00:27:00,050

definitely definitely oh otay my best

599

00:27:04,510 --> 00:27:02,929

and i'm sure we'll have some fun when we

600

00:27:06,940 --> 00:27:04,520

catch up really soon chrissy Wilson

601
00:27:27,700 --> 00:27:06,950
thanks very much ok cheers richard taken

602
00:27:32,350 --> 00:27:30,850
hi I'm on it why I exist in OB tips

603
00:27:34,180 --> 00:27:32,360
addai some logic lifted off the skeptic

604
00:27:36,639 --> 00:27:34,190
zone um skeptic a mirror in Nadia the

605
00:27:38,529 --> 00:27:36,649
fins not a blog gear up a BF a podcast

606
00:27:40,840 --> 00:27:38,539
of reading escape system is leaked on

607
00:27:42,399 --> 00:27:40,850
this drama central de i'll skip sister

608
00:27:44,470 --> 00:27:42,409
demo or higher publicize the deeps

609
00:27:46,419 --> 00:27:44,480
corner Chiclets and calendar / activator

610
00:27:47,980 --> 00:27:46,429
or language in ET rester chez escapes

611
00:27:49,960 --> 00:27:47,990
this blog in op 2 30am lay autodesk

612
00:28:00,419 --> 00:27:49,970
ateres hefty performance so speculum Oh

613
00:28:13,240 --> 00:28:05,110

here's my not spooky action at a

614

00:28:17,590 --> 00:28:15,280

am I don't adventure i'm going to take

615

00:28:20,760 --> 00:28:17,600

you on right now let's get in the main

616

00:28:23,740 --> 00:28:20,770

armor bill and go into deepest darkest

617

00:28:26,020 --> 00:28:23,750

newcastle that's right picture this doo

618

00:28:27,940 --> 00:28:26,030

dee doo doo dee doo doo wednesday night

619

00:28:29,980 --> 00:28:27,950

in newcastle it's normally you know

620

00:28:31,450 --> 00:28:29,990

after midnight a lot of drinking goes on

621

00:28:33,910 --> 00:28:31,460

from the students and they go from venue

622

00:28:36,430 --> 00:28:33,920

to venue having shall we say a student e

623

00:28:40,750 --> 00:28:36,440

good time but this wednesday night at

624

00:28:43,180 --> 00:28:40,760

six o'clock underground underneath the

625

00:28:45,130 --> 00:28:43,190

Grand Hotel opposite the courthouse all

626
00:28:46,750 --> 00:28:45,140
the action happens where the journalists

627
00:28:48,460 --> 00:28:46,760
who used to be employed in Newcastle

628
00:28:50,170 --> 00:28:48,470
used to drink when they were journalists

629
00:28:52,600 --> 00:28:50,180
in Newcastle before they all got sacked

630
00:28:55,120 --> 00:28:52,610
the Grand Hotel downstairs there was a

631
00:28:56,320 --> 00:28:55,130
science in the pub science and pubs

632
00:28:57,700 --> 00:28:56,330
fantastic it's happening at a number of

633
00:29:00,280 --> 00:28:57,710
places around Australia but we had a

634
00:29:02,620 --> 00:29:00,290
special special line up of local people

635
00:29:05,380 --> 00:29:02,630
at the newcastle science in the pub

636
00:29:07,480 --> 00:29:05,390
laureate professor john aitken professor

637
00:29:09,220 --> 00:29:07,490
Rodney Scott and professor Pablo moscato

638
00:29:10,710 --> 00:29:09,230

they formed the panel on the night and

639

00:29:13,840 --> 00:29:10,720

they talked about nanotechnology

640

00:29:14,950 --> 00:29:13,850

biotechnology and bioethics how many

641

00:29:18,850 --> 00:29:14,960

people you think turned up for this in

642

00:29:20,230 --> 00:29:18,860

Newcastle don't ask over 100 and I'm

643

00:29:21,790 --> 00:29:20,240

just saying over 100 because as someone

644

00:29:23,380 --> 00:29:21,800

pointed out it wasn't mathematics in the

645

00:29:25,480 --> 00:29:23,390

pub I couldn't count them all their

646

00:29:27,310 --> 00:29:25,490

people jammed in behind chairs everyone

647

00:29:29,920 --> 00:29:27,320

had a hood of a time I think it's about

648

00:29:32,260 --> 00:29:29,930

time we had stadium science we've got

649

00:29:34,090 --> 00:29:32,270

stadium rock why can't we have stadium

650

00:29:36,430 --> 00:29:34,100

science why cant Hawking get up there

651
00:29:38,140 --> 00:29:36,440
take some questions and then crowd surf

652
00:29:40,630 --> 00:29:38,150
I don't know why that can't happen well

653
00:29:42,460 --> 00:29:40,640
it Dawkins the Richard Dawkins drinking

654
00:29:43,930 --> 00:29:42,470
challenge on stage while he's taking

655
00:29:46,450 --> 00:29:43,940
questions perfect i know i'd be there

656
00:29:48,430 --> 00:29:46,460
this is the first the first of a couple

657
00:29:50,620 --> 00:29:48,440
of science in the pubs around australia

658
00:29:53,650 --> 00:29:50,630
science in the pub will be at hobart on

659
00:29:56,470 --> 00:29:53,660
the 7th of march it'll be in Dubbo on

660
00:29:57,820 --> 00:29:56,480
the fourteenth of march and the rest of

661
00:29:59,830 --> 00:29:57,830
the dates haven't been organized yet but

662
00:30:03,900 --> 00:29:59,840
there will be science in the pub at Port

663
00:30:10,279 --> 00:30:03,910

Lincoln kalgoorlie broom Darwin

664

00:30:15,989 --> 00:30:13,829

calamba it's also presented by ABC local

665

00:30:18,479 --> 00:30:15,999

radio so if you know your ABC local

666

00:30:20,339 --> 00:30:18,489

radio station and you should in Hobart

667

00:30:22,680 --> 00:30:20,349

dubbo Port Lincoln kalgoorlie broom

668

00:30:24,779 --> 00:30:22,690

Darwin townsell in toowoomba they will

669

00:30:26,879 --> 00:30:24,789

also be announcing it signed to the pub

670

00:30:28,680 --> 00:30:26,889

it's happening but right now we take you

671

00:30:29,489 --> 00:30:28,690

to shortly after science and the pub

672

00:30:31,349 --> 00:30:29,499

finished they were talking

673

00:30:33,509 --> 00:30:31,359

nanotechnology they were talking

674

00:30:35,519 --> 00:30:33,519

high-tech and then they were talking to

675

00:30:38,159 --> 00:30:35,529

me bit of a disappointment really up

676
00:30:39,749 --> 00:30:38,169
hang on late breaking news the website

677
00:30:41,940 --> 00:30:39,759
if you'd like to know exactly more about

678
00:30:44,819 --> 00:30:41,950
this is oh and of course it's very easy

679
00:30:51,419 --> 00:30:44,829
one to remember take a new edu 2012 that

680
00:30:58,529 --> 00:30:51,429
note it is Tec Tec h NY 0 u dot ed u dot

681
00:31:01,979 --> 00:30:58,539
au / 2013 / 02 / science in the pub all

682
00:31:03,749 --> 00:31:01,989
one word that website in case you missed

683
00:31:08,639 --> 00:31:03,759
it again or you can just run the mp3

684
00:31:13,680 --> 00:31:08,649
back Tech you dot ed u dot a you forward

685
00:31:15,899 --> 00:31:13,690
slash 2013 /o to forward slash science

686
00:31:17,219 --> 00:31:15,909
in the pub but if you have a look at

687
00:31:18,989 --> 00:31:17,229
these show notes for the skeptic zone

688
00:31:20,759 --> 00:31:18,999

this very episode I'm sure that link

689

00:31:23,879 --> 00:31:20,769

will be there and now back to our

690

00:31:30,440 --> 00:31:23,889

regular scheduled program well I'm

691

00:31:34,619 --> 00:31:33,239

look we've just had so much impetus we

692

00:31:36,449 --> 00:31:34,629

just had science in the pub what do you

693

00:31:37,799 --> 00:31:36,459

think of it sir was excellent what's

694

00:31:39,060 --> 00:31:37,809

your field of interest what you what was

695

00:31:41,099 --> 00:31:39,070

the bit that interest you to the most we

696

00:31:42,599 --> 00:31:41,109

had three top scientists and there was

697

00:31:44,190 --> 00:31:42,609

all very interesting but the area I

698

00:31:47,549 --> 00:31:44,200

working was the bit they spoke about the

699

00:31:49,619 --> 00:31:47,559

end which is end of life yes and what

700

00:31:51,749 --> 00:31:49,629

concludes your Blizzard it mr. Seidel

701
00:31:53,129 --> 00:31:51,759
driven answer the conclusion was that I

702
00:31:54,149 --> 00:31:53,139
shouldn't actually ask the question I

703
00:31:55,859 --> 00:31:54,159
was going to ask her so would have

704
00:31:57,690 --> 00:31:55,869
brought it down or on everything because

705
00:32:01,019 --> 00:31:57,700
everything was dealing with conception

706
00:32:03,629 --> 00:32:01,029
and they sort of finished off with with

707
00:32:05,759 --> 00:32:03,639
the euthanasia I thought it was probably

708
00:32:07,030 --> 00:32:05,769
not the night to go out on but actually

709
00:32:09,280 --> 00:32:07,040
is the night to go a little bit

710
00:32:10,780 --> 00:32:09,290
a huge night wasn't it all these people

711
00:32:13,420 --> 00:32:10,790
in Newcastle talking about science call

712
00:32:14,650 --> 00:32:13,430
it quality stuff quality stuff here now

713
00:32:16,480 --> 00:32:14,660

what do you think of our science in the

714

00:32:19,300 --> 00:32:16,490

pub night what a huge amount of people I

715

00:32:20,980 --> 00:32:19,310

thought it was really good I'm out of my

716

00:32:22,630 --> 00:32:20,990

league here I'm not a science person I'm

717

00:32:23,860 --> 00:32:22,640

a stay-at-home mother I'll go say when

718

00:32:25,990 --> 00:32:23,870

they started talking about genome

719

00:32:28,750 --> 00:32:26,000

sequencing i was a bit confused himself

720

00:32:30,490 --> 00:32:28,760

i was more curious about i have four

721

00:32:33,190 --> 00:32:30,500

boys and I would do anything to get a

722

00:32:35,380 --> 00:32:33,200

girl so I wish that they could do gender

723

00:32:37,090 --> 00:32:35,390

selection but you know I don't think it

724

00:32:39,730 --> 00:32:37,100

expected expect that downstairs at the

725

00:32:40,900 --> 00:32:39,740

Grand Hotel him awareness a night and

726

00:32:42,550 --> 00:32:40,910

what do you think of the evening I

727

00:32:44,350 --> 00:32:42,560

really liked it it was there a part that

728

00:32:46,150 --> 00:32:44,360

really appealed to a lot of it was quite

729

00:32:47,290 --> 00:32:46,160

pitched high but I quite like the fact

730

00:32:48,760 --> 00:32:47,300

that i didn't know some of it because it

731

00:32:50,140 --> 00:32:48,770

was interesting i studied by a

732

00:32:51,670 --> 00:32:50,150

technology at the University of

733

00:32:53,110 --> 00:32:51,680

Newcastle so I knew a lot of what

734

00:32:55,570 --> 00:32:53,120

they'll talk about so they never lost

735

00:32:57,190 --> 00:32:55,580

you once no not really it was there an

736

00:32:58,690 --> 00:32:57,200

era that the computers i was interested

737

00:33:01,000 --> 00:32:58,700

in at the computers working with the

738

00:33:02,860 --> 00:33:01,010

genetics and that was a bit that really

739

00:33:03,820 --> 00:33:02,870

fire the imagination I thought that was

740

00:33:06,010 --> 00:33:03,830

really interesting how they're doing

741

00:33:08,050 --> 00:33:06,020

that and of course all the people have

742

00:33:10,390 --> 00:33:08,060

turned up I'm surprised we got over 100

743

00:33:12,550 --> 00:33:10,400

people here tonight yeah we had trouble

744

00:33:14,710 --> 00:33:12,560

getting a seat so good job okay okay

745

00:33:17,200 --> 00:33:14,720

thank you very much thank you look at

746

00:33:19,090 --> 00:33:17,210

the crowds moving away now I think

747

00:33:20,380 --> 00:33:19,100

you're the young Newton overcast rune of

748

00:33:22,090 --> 00:33:20,390

the year or something you mentioned what

749

00:33:23,320 --> 00:33:22,100

was that one this one here look up well

750

00:33:24,910 --> 00:33:23,330

you had a pretty good question too and

751
00:33:26,170 --> 00:33:24,920
you were constantly blogging what was

752
00:33:28,510 --> 00:33:26,180
everyone saying on Twitter while I was

753
00:33:30,250 --> 00:33:28,520
going on I was looking at still quite a

754
00:33:32,410 --> 00:33:30,260
few people tweeting as the event was

755
00:33:33,570 --> 00:33:32,420
going on which was great to see lots of

756
00:33:35,860 --> 00:33:33,580
people really engage in the discussion

757
00:33:37,690 --> 00:33:35,870
lots of people who were really excited

758
00:33:39,940 --> 00:33:37,700
this science event was happening in a

759
00:33:41,170 --> 00:33:39,950
pub here in town and Wednesday night in

760
00:33:43,270 --> 00:33:41,180
New Castle I move got more than a

761
00:33:45,010 --> 00:33:43,280
hundred people which is fantastic when

762
00:33:46,750 --> 00:33:45,020
most of these people i think i'm heading

763
00:33:48,070 --> 00:33:46,760

out or to student night in town it's

764

00:33:50,080 --> 00:33:48,080

very different crowd than you'd normally

765

00:33:51,970 --> 00:33:50,090

see out well normally you don't see them

766

00:33:54,220 --> 00:33:51,980

till after midnight very drunk apartment

767

00:33:55,840 --> 00:33:54,230

yes certainly but it would be great

768

00:33:57,700 --> 00:33:55,850

events like this could continue in your

769

00:33:59,530 --> 00:33:57,710

car sliding given the turnout tonight

770

00:34:01,180 --> 00:33:59,540

there's certainly a desire for them to

771

00:34:03,070 --> 00:34:01,190

continue this early be an audience for

772

00:34:05,610 --> 00:34:03,080

them and the crab what was the area of

773

00:34:08,590 --> 00:34:05,620

the conversation that you went all right

774

00:34:10,510 --> 00:34:08,600

so there was a very big discussion about

775

00:34:12,310 --> 00:34:10,520

the ethics around science which is I

776

00:34:14,260 --> 00:34:12,320

think an area that the public can engage

777

00:34:16,149 --> 00:34:14,270

more broadly where it's not about the

778

00:34:17,320 --> 00:34:16,159

the ins and outs of science the

779

00:34:18,639 --> 00:34:17,330

technical knowledge that you have to

780

00:34:20,470 --> 00:34:18,649

have to engage in the discussion but

781

00:34:22,540 --> 00:34:20,480

what you think site should be focusing

782

00:34:25,090 --> 00:34:22,550

on what the areas you think should be

783

00:34:27,070 --> 00:34:25,100

off limit to science and we think sites

784

00:34:28,540 --> 00:34:27,080

should be going in the future and have

785

00:34:29,710 --> 00:34:28,550

you got a rough answer to where you

786

00:34:32,290 --> 00:34:29,720

think science should be going in the

787

00:34:34,450 --> 00:34:32,300

future no idea I'd certainly like to see

788

00:34:35,800 --> 00:34:34,460

a lot more science continuing in climate

789

00:34:37,330 --> 00:34:35,810

change I think that's an area where

790

00:34:40,510 --> 00:34:37,340

particularly here in Newcastle there's

791

00:34:43,240 --> 00:34:40,520

scope for a lot more research in that

792

00:34:45,280 --> 00:34:43,250

field I know we have the CSIRO clean

793

00:34:47,260 --> 00:34:45,290

energy center here in town which is

794

00:34:49,210 --> 00:34:47,270

doing fantastic work look they've got

795

00:34:50,919 --> 00:34:49,220

their death ray at west maitland that

796

00:34:51,760 --> 00:34:50,929

got that solar array that's set up there

797

00:34:54,129 --> 00:34:51,770

looks like they're doing something

798

00:34:56,800 --> 00:34:54,139

really spooky yeah it's doing great

799

00:34:58,270 --> 00:34:56,810

things they've also got their site in

800

00:35:00,190 --> 00:34:58,280

western New Castle is doing a lot of

801
00:35:03,070 --> 00:35:00,200
energy efficiency we've got the Smart

802
00:35:05,020 --> 00:35:03,080
City free system that's getting up and

803
00:35:07,210 --> 00:35:05,030
running which will hopefully be a huge

804
00:35:09,010 --> 00:35:07,220
improvement in reducing the amount of

805
00:35:11,680 --> 00:35:09,020
electricity we use across the country

806
00:35:13,090 --> 00:35:11,690
and Jessie enormous talent that we have

807
00:35:14,500 --> 00:35:13,100
through the University it would be great

808
00:35:15,940 --> 00:35:14,510
to him more of the stories coming out

809
00:35:17,380 --> 00:35:15,950
there yeah so you hear that people

810
00:35:19,540 --> 00:35:17,390
listening there was science going on a

811
00:35:21,220 --> 00:35:19,550
Newcastle thank you definitely now you

812
00:35:22,630 --> 00:35:21,230
give the person who had the question

813
00:35:24,099 --> 00:35:22,640

that stopped them a bit there you are

814

00:35:26,200 --> 00:35:24,109

being a bit of a troublemaker what were

815

00:35:28,180 --> 00:35:26,210

you what you're asking early on so I was

816

00:35:30,700 --> 00:35:28,190

asking a question about how politics and

817

00:35:33,520 --> 00:35:30,710

science interact and essentially how how

818

00:35:35,260 --> 00:35:33,530

a government can function in a in a

819

00:35:37,380 --> 00:35:35,270

situation where science is often far

820

00:35:39,790 --> 00:35:37,390

ahead of where the regulatory framework

821

00:35:40,870 --> 00:35:39,800

exists yes because you just off the top

822

00:35:43,450 --> 00:35:40,880

of my head I wouldn't think there'd be a

823

00:35:45,040 --> 00:35:43,460

lot of boats in working out that ethics

824

00:35:48,010 --> 00:35:45,050

on something that no one's interested in

825

00:35:50,620 --> 00:35:48,020

just yet yeah I think that was addressed

826

00:35:53,260 --> 00:35:50,630

in there the answers in that politics

827

00:35:55,960 --> 00:35:53,270

tends to focus far too much on the

828

00:35:57,820 --> 00:35:55,970

tomorrow's polling figures or and even

829

00:35:58,990 --> 00:35:57,830

looking as the furthest distance we look

830

00:36:00,970 --> 00:35:59,000

ahead is the next election where a

831

00:36:04,270 --> 00:36:00,980

science produces things that are going

832

00:36:07,360 --> 00:36:04,280

to pay off in 10 20 50 years time and

833

00:36:09,280 --> 00:36:07,370

it's a great forethought is required on

834

00:36:11,980 --> 00:36:09,290

behalf of regulators in order to achieve

835

00:36:14,110 --> 00:36:11,990

significant gains and you were young

836

00:36:17,320 --> 00:36:14,120

nerve occasionally you I believe that's

837

00:36:18,520 --> 00:36:17,330

right and wasn't it great to see I've

838

00:36:20,110 --> 00:36:18,530

said this a few times because I'm really

839

00:36:21,610 --> 00:36:20,120
into it a hundred people getting

840

00:36:24,130 --> 00:36:21,620
together to talk about science on a

841

00:36:26,260 --> 00:36:24,140
wednesday night at newcastle i think

842

00:36:28,540 --> 00:36:26,270
it's fantastic i mean the pub in in a

843

00:36:30,490 --> 00:36:28,550
pub exactly i mean far too often science

844

00:36:32,620 --> 00:36:30,500
is done in universities where we're

845

00:36:34,690 --> 00:36:32,630
crazy academics published papers that

846

00:36:36,670 --> 00:36:34,700
the vast majority of the community never

847

00:36:38,800 --> 00:36:36,680
see and so it's a really an important

848

00:36:40,480 --> 00:36:38,810
thing that the community get to see the

849

00:36:42,460 --> 00:36:40,490
payoff of what science is producing in

850

00:36:43,810 --> 00:36:42,470
society look frankly speaking from a

851
00:36:45,310 --> 00:36:43,820
scientific perspective it was great to

852
00:36:46,720 --> 00:36:45,320
see some good haircuts in the room I

853
00:36:48,460 --> 00:36:46,730
mean normally when you go to sign stuff

854
00:36:50,860 --> 00:36:48,470
you can't see one decent haircut in the

855
00:36:52,540 --> 00:36:50,870
entire forum and that's definitely true

856
00:36:54,280 --> 00:36:52,550
mate I definitely okay we'll have a good

857
00:36:55,720 --> 00:36:54,290
night you two actually how many people

858
00:36:57,340 --> 00:36:55,730
have any bill you reckon wish you get

859
00:36:58,720 --> 00:36:57,350
next time what kind of room do we need I

860
00:37:00,130 --> 00:36:58,730
mean it's almost like we need the band

861
00:37:01,270 --> 00:37:00,140
room at the Cambridge isn't it we

862
00:37:02,530 --> 00:37:01,280
definitely need the band room of the

863
00:37:04,360 --> 00:37:02,540

Cambridge I think that's the next in the

864

00:37:08,980 --> 00:37:04,370

next logical step let's do some stadium

865

00:37:11,170 --> 00:37:08,990

science exactly just just remember this

866

00:37:13,330 --> 00:37:11,180

a skeptic zone special now many of you

867

00:37:20,330 --> 00:37:13,340

science viewers will will remember this

868

00:37:25,920 --> 00:37:23,790

hello tonight on quantum I'm standing

869

00:37:28,380 --> 00:37:25,930

outside of a fascinating laboratory

870

00:37:30,180 --> 00:37:28,390

where they're testing high-heeled shoes

871

00:37:31,770 --> 00:37:30,190

that's right that's the voice of jill

872

00:37:33,840 --> 00:37:31,780

emberson and you worked on quantum for

873

00:37:36,330 --> 00:37:33,850

many years what was the state of science

874

00:37:39,930 --> 00:37:36,340

reporting when you were doing it it was

875

00:37:42,150 --> 00:37:39,940

absolutely embryonic I had no scientific

876
00:37:45,090 --> 00:37:42,160
knowledge whatsoever I'd walked out of

877
00:37:48,210 --> 00:37:45,100
playing records and talking silly bitsat

878
00:37:50,880 --> 00:37:48,220
to triple j Maynard I needed no science

879
00:37:53,010 --> 00:37:50,890
we were babies in woods I hope it's come

880
00:37:55,200 --> 00:37:53,020
a long way and the mall and the whole

881
00:37:56,700 --> 00:37:55,210
geek culture has improved as well I mean

882
00:37:59,460 --> 00:37:56,710
now the word geek is certainly not an

883
00:38:01,830 --> 00:37:59,470
insult I think being a geek is cool I'm

884
00:38:04,080 --> 00:38:01,840
not a geek and I feel I'm on the outside

885
00:38:05,910 --> 00:38:04,090
can you help me now I'm speaking to you

886
00:38:07,770 --> 00:38:05,920
because you hosted science in the pub

887
00:38:08,940 --> 00:38:07,780
here at Newcastle now what did you think

888
00:38:10,260 --> 00:38:08,950

was the moment where the evening really

889

00:38:11,760 --> 00:38:10,270

took off because there's love feisty

890

00:38:14,190 --> 00:38:11,770

questions about ethics science the

891

00:38:16,080 --> 00:38:14,200

future euthanasia politics what was the

892

00:38:19,890 --> 00:38:16,090

month when you went off here we go when

893

00:38:21,450 --> 00:38:19,900

Pablo two moments first when the new

894

00:38:24,120 --> 00:38:21,460

south wales scientists of the year

895

00:38:27,840 --> 00:38:24,130

city's alternative career path was real

896

00:38:31,320 --> 00:38:27,850

estate we got through that wave the next

897

00:38:34,380 --> 00:38:31,330

moment was when professor Pablo moscato

898

00:38:36,870 --> 00:38:34,390

yes that is his real name said that we

899

00:38:39,930 --> 00:38:36,880

are in a revolution and and that the

900

00:38:42,540 --> 00:38:39,940

revolution is here it's not up the road

901
00:38:45,420 --> 00:38:42,550
when it comes to genetic knowledge that

902
00:38:48,630 --> 00:38:45,430
we've got right now I think there was a

903
00:38:50,090 --> 00:38:48,640
big heart moment jalali give it to

904
00:38:52,770 --> 00:38:50,100
meeting people of the puppet however

905
00:38:54,300 --> 00:38:52,780
mention it 100 people in newcastle on a

906
00:38:56,280 --> 00:38:54,310
wednesday night in a pub talking about

907
00:38:58,680 --> 00:38:56,290
science and high-level genome stuff too

908
00:39:00,630 --> 00:38:58,690
I'm blown away I have really blown away

909
00:39:03,620 --> 00:39:00,640
too there's even more people here than

910
00:39:06,480 --> 00:39:03,630
the jazz night which has taken a lot of

911
00:39:09,870 --> 00:39:06,490
developing I'm blown away that there are

912
00:39:12,510 --> 00:39:09,880
this many people 100-plus for science in

913
00:39:14,790 --> 00:39:12,520

the pub on a school night I've called it

914

00:39:16,120 --> 00:39:14,800

the band room at the Cambridge stadium

915

00:39:19,360 --> 00:39:16,130

science

916

00:39:21,010 --> 00:39:19,370

next thing I'll see you there wow look

917

00:39:22,750 --> 00:39:21,020

we're not we're getting close to the bar

918

00:39:24,610 --> 00:39:22,760

but not quite how did you enjoy science

919

00:39:26,950 --> 00:39:24,620

in the pub and are you blown away by how

920

00:39:28,360 --> 00:39:26,960

many people turned up it was chokers I

921

00:39:30,250 --> 00:39:28,370

couldn't find a seat I came in a few

922

00:39:32,200 --> 00:39:30,260

minutes late in the year was it was so

923

00:39:33,580 --> 00:39:32,210

full but it was great it was absolutely

924

00:39:35,530 --> 00:39:33,590

worth it what was your interests are you

925

00:39:37,540 --> 00:39:35,540

studying the field oh yeah I'll my

926

00:39:39,250 --> 00:39:37,550

medical students so a few my lecturers

927

00:39:40,810 --> 00:39:39,260

are here today actually and now though

928

00:39:42,430 --> 00:39:40,820

talking at a fairly high level with some

929

00:39:43,810 --> 00:39:42,440

of the sciences and what did you think

930

00:39:45,760 --> 00:39:43,820

of the level that they were pitching out

931

00:39:47,320 --> 00:39:45,770

it was quite how I wasn't it it was high

932

00:39:49,360 --> 00:39:47,330

but i think they managed to bring it

933

00:39:50,950 --> 00:39:49,370

down to a level that most people could

934

00:39:52,840 --> 00:39:50,960

understand and then yeah they really

935

00:39:54,490 --> 00:39:52,850

simplified the concepts who was there an

936

00:39:55,840 --> 00:39:54,500

area was there a question that was asked

937

00:39:58,600 --> 00:39:55,850

you went yeah I want to know that answer

938

00:40:00,520 --> 00:39:58,610

too um here look at the questions on

939

00:40:02,350 --> 00:40:00,530

pharmaceutical pricing so treating

940

00:40:04,090 --> 00:40:02,360

cancer treatments and how we can bring

941

00:40:05,290 --> 00:40:04,100

down costs that was the same very

942

00:40:06,880 --> 00:40:05,300

relevant I thought it was interesting

943

00:40:09,520 --> 00:40:06,890

the way he was comparing it to the cost

944

00:40:11,440 --> 00:40:09,530

of HIV treatment in the early 90s yeah

945

00:40:13,150 --> 00:40:11,450

definitely definitely but it was

946

00:40:14,770 --> 00:40:13,160

mentioned by the other person ever when

947

00:40:16,240 --> 00:40:14,780

you looked at the effectiveness of the

948

00:40:17,560 --> 00:40:16,250

cancer treatment I was working out about

949

00:40:19,840 --> 00:40:17,570

a million dollars a patient which I

950

00:40:21,160 --> 00:40:19,850

thought was very interesting figure yeah

951

00:40:22,900 --> 00:40:21,170

well I suppose that's where they were

952

00:40:24,760 --> 00:40:22,910

talking about tailoring treatments and

953

00:40:26,410 --> 00:40:24,770

so the importance of funding research

954

00:40:29,200 --> 00:40:26,420

and in the long term bringing down

955

00:40:30,460 --> 00:40:29,210

pharmaceutical prices any idea if you'd

956

00:40:32,590 --> 00:40:30,470

like to specialize when you're finished

957

00:40:34,450 --> 00:40:32,600

your training yeah definitely i'm

958

00:40:35,800 --> 00:40:34,460

hearing from john aitken the fertility

959

00:40:37,540 --> 00:40:35,810

specialist there's only I'm very

960

00:40:38,830 --> 00:40:37,550

interested in so yeah maybe one day

961

00:40:40,420 --> 00:40:38,840

would you be concerned about us living

962

00:40:42,580 --> 00:40:40,430

in a gattaca world one day where there's

963

00:40:44,470 --> 00:40:42,590

the people who have the the DNA that can

964

00:40:46,720 --> 00:40:44,480

be changed and the ones that like a scar

965

00:40:48,730 --> 00:40:46,730

yeah definitely I think there's a lot of

966

00:40:50,020 --> 00:40:48,740

science fiction talk that goes on as

967

00:40:52,120 --> 00:40:50,030

well you know a lot of people make the

968

00:40:53,470 --> 00:40:52,130

slippery slope argument but you know at

969

00:40:55,360 --> 00:40:53,480

the end of the day they were talking

970

00:40:57,370 --> 00:40:55,370

about how we do have regulation in place

971

00:40:58,750 --> 00:40:57,380

we have got really good systems so I

972

00:41:01,000 --> 00:40:58,760

don't really think of the go quite as

973

00:41:03,100 --> 00:41:01,010

Extreme as a science fiction and what is

974

00:41:05,530 --> 00:41:03,110

the next place to do the science and the

975

00:41:06,620 --> 00:41:05,540

pub at the shoe 200 people it's not way

976
00:41:08,720 --> 00:41:06,630
bigger yeah

977
00:41:10,069 --> 00:41:08,730
thank you very much and what were you

978
00:41:11,749 --> 00:41:10,079
into tonight might brought you along you

979
00:41:13,339 --> 00:41:11,759
were student as well I'm a doctor but

980
00:41:15,529 --> 00:41:13,349
I'm also starting a mass public health

981
00:41:16,730 --> 00:41:15,539
of them over so you actually have to

982
00:41:19,789 --> 00:41:16,740
have people sitting in front of you the

983
00:41:21,559 --> 00:41:19,799
sick yes I do okay I'm an actual work

984
00:41:23,359 --> 00:41:21,569
that everyday basis what did you get out

985
00:41:25,279 --> 00:41:23,369
of discussion tonight I thought it was

986
00:41:26,569 --> 00:41:25,289
very interesting in topical in terms of

987
00:41:28,460 --> 00:41:26,579
research and how much were actually

988
00:41:30,079 --> 00:41:28,470

funding the area and the opportunities

989

00:41:31,549 --> 00:41:30,089

that available and what needs to be done

990

00:41:32,950 --> 00:41:31,559

to sort of involve the community of the

991

00:41:35,059 --> 00:41:32,960

government's more and sort of

992

00:41:37,009 --> 00:41:35,069

appreciating and encouraging that sort

993

00:41:38,509 --> 00:41:37,019

of research pursuit what did you think

994

00:41:39,529 --> 00:41:38,519

was the most controversial question

995

00:41:41,569 --> 00:41:39,539

there was a couple of political

996

00:41:43,099 --> 00:41:41,579

questions asked and about fertility and

997

00:41:44,599 --> 00:41:43,109

all that sort of thing yes definitely I

998

00:41:46,130 --> 00:41:44,609

think there was a very topical question

999

00:41:47,569 --> 00:41:46,140

raised about whether people should have

1000

00:41:49,370 --> 00:41:47,579

access to information that they haven't

1001
00:41:52,370 --> 00:41:49,380
necessarily asked for themselves in

1002
00:41:54,589 --> 00:41:52,380
terms of genetic testing it's kind of a

1003
00:41:56,150 --> 00:41:54,599
Pandora's box because if you're not sort

1004
00:41:57,890 --> 00:41:56,160
of expecting that information how can

1005
00:42:00,349 --> 00:41:57,900
you expect someone to deal with it and

1006
00:42:02,029 --> 00:42:00,359
to want to have that information I think

1007
00:42:03,470 --> 00:42:02,039
in terms of research it's important to

1008
00:42:05,450 --> 00:42:03,480
have that information but then from a

1009
00:42:07,160 --> 00:42:05,460
patient perspective it might impair

1010
00:42:08,210 --> 00:42:07,170
their quality of life they find out so

1011
00:42:10,130 --> 00:42:08,220
that's always going to be a tricky

1012
00:42:11,900 --> 00:42:10,140
balance do you think doctors records

1013
00:42:13,370 --> 00:42:11,910

should be more transparent than they are

1014

00:42:15,079 --> 00:42:13,380

now I think there is a need for secrecy

1015

00:42:16,160 --> 00:42:15,089

because you do right all sorts of things

1016

00:42:18,259 --> 00:42:16,170

when you're speculating about a

1017

00:42:19,730 --> 00:42:18,269

patient's illness I think that patient

1018

00:42:21,380 --> 00:42:19,740

records are already quite transparent

1019

00:42:22,819 --> 00:42:21,390

patients definitely have access to it

1020

00:42:25,190 --> 00:42:22,829

they're back to their information and

1021

00:42:26,900 --> 00:42:25,200

can ask for it in given time but I think

1022

00:42:27,920 --> 00:42:26,910

you pasted people like insurance company

1023

00:42:29,839 --> 00:42:27,930

should have access to it that would

1024

00:42:30,920 --> 00:42:29,849

definitely change the game I think it's

1025

00:42:32,779 --> 00:42:30,930

surance company shouldn't have more

1026

00:42:35,480 --> 00:42:32,789

access than a patient themselves ideally

1027

00:42:36,470 --> 00:42:35,490

ok but so they can regulate the pricing

1028

00:42:39,440 --> 00:42:36,480

and know what they're getting into with

1029

00:42:40,940 --> 00:42:39,450

the person I think that being sure it

1030

00:42:41,960 --> 00:42:40,950

last I mentioned before I fit the

1031

00:42:43,610 --> 00:42:41,970

insurance company Chenault Morgana

1032

00:42:45,710 --> 00:42:43,620

patients so

1033

00:42:46,970 --> 00:42:45,720

patience node information than their

1034

00:42:48,200 --> 00:42:46,980

more prepared for that sort of a

1035

00:42:50,270 --> 00:42:48,210

situation but to have an insurance

1036

00:42:52,670 --> 00:42:50,280

company know that before them would not

1037

00:42:53,930 --> 00:42:52,680

be ideal so these are big concepts to be

1038

00:42:55,220 --> 00:42:53,940

discussing on a wednesday night at the

1039

00:42:57,170 --> 00:42:55,230

Grand Hotel in Newcastle aren't they

1040

00:42:58,460 --> 00:42:57,180

isn't it great yes it's fantastic i

1041

00:43:00,400 --> 00:42:58,470

think more days eventually definitely a

1042

00:43:04,550 --> 00:43:00,410

care and it gets to get involved in

1043

00:43:06,290 --> 00:43:04,560

believing in what we're doing here well

1044

00:43:08,420 --> 00:43:06,300

we're just at the end of science in the

1045

00:43:09,770 --> 00:43:08,430

pub had more than a hundred people in a

1046

00:43:11,690 --> 00:43:09,780

room that's probably only designed to

1047

00:43:13,970 --> 00:43:11,700

fit about 60 we had three eminent

1048

00:43:16,370 --> 00:43:13,980

sciences and um scientists i'm here with

1049

00:43:18,500 --> 00:43:16,380

one of the organizers now at that Franky

1050

00:43:19,880 --> 00:43:18,510

who are you what have we had happen here

1051

00:43:22,790 --> 00:43:19,890

and one of the ramifications this for

1052

00:43:24,590 --> 00:43:22,800

Newcastle more I say um me I'm actually

1053

00:43:26,480 --> 00:43:24,600

nobody but this has been a little bit

1054

00:43:28,430 --> 00:43:26,490

for some bodies and science somebody's

1055

00:43:30,320 --> 00:43:28,440

and it's been great we weren't sure how

1056

00:43:32,300 --> 00:43:30,330

many people we get along and who the

1057

00:43:34,790 --> 00:43:32,310

people would be and there was all kinds

1058

00:43:36,830 --> 00:43:34,800

of people here they were like medical

1059

00:43:38,840 --> 00:43:36,840

students but there was also just normal

1060

00:43:41,330 --> 00:43:38,850

like Newcastle people as well thank you

1061

00:43:43,340 --> 00:43:41,340

for a room of scientists there was a lot

1062

00:43:44,870 --> 00:43:43,350

of good haircuts that's right yeah yeah

1063

00:43:48,050 --> 00:43:44,880

and they weren't there wasn't as many

1064

00:43:49,910 --> 00:43:48,060

grey beards as I expected in fact there

1065

00:43:52,370 --> 00:43:49,920

were a few of those Yogi's I saw some of

1066

00:43:54,320 --> 00:43:52,380

those too and I saw two neck beards

1067

00:43:55,670 --> 00:43:54,330

normally you'd get more than two neck

1068

00:43:58,910 --> 00:43:55,680

beards in a hundred scientists but

1069

00:44:01,070 --> 00:43:58,920

that's not bad um what other scientists

1070

00:44:03,170 --> 00:44:01,080

at the end there was saying that he

1071

00:44:04,610 --> 00:44:03,180

feels that that they had they should do

1072

00:44:06,980 --> 00:44:04,620

this kind of thing because he owes it to

1073

00:44:08,840 --> 00:44:06,990

us because we pay his salary basically

1074

00:44:10,370 --> 00:44:08,850

through attacks to find out what people

1075

00:44:11,840 --> 00:44:10,380

think about the research and he does

1076

00:44:13,940 --> 00:44:11,850

with it we think it's worth the effort

1077

00:44:16,460 --> 00:44:13,950

and a lot of people made their comments

1078

00:44:18,200 --> 00:44:16,470

and he was really happy to have a chance

1079

00:44:19,820 --> 00:44:18,210

to hear what people think about what

1080

00:44:22,670 --> 00:44:19,830

he's doing so I thought that was pretty

1081

00:44:24,440 --> 00:44:22,680

cool and for you helping out but what's

1082

00:44:26,360 --> 00:44:24,450

going on here tonight what makes the

1083

00:44:29,480 --> 00:44:26,370

moment we went wow this is just rocking

1084

00:44:31,610 --> 00:44:29,490

the house science-wise it's it's a safe

1085

00:44:32,810 --> 00:44:31,620

I worked in live music videos and

1086

00:44:34,490 --> 00:44:32,820

there's this moment

1087

00:44:35,660 --> 00:44:34,500

and you don't know whether people going

1088

00:44:37,460 --> 00:44:35,670

to come to your gig and then you look

1089

00:44:39,440 --> 00:44:37,470

around and they're all arriving at you

1090

00:44:40,970 --> 00:44:39,450

know at the start and that happened

1091

00:44:42,110 --> 00:44:40,980

tonight I looked around and their orders

1092

00:44:44,090 --> 00:44:42,120

coming in the door like it was a

1093

00:44:46,250 --> 00:44:44,100

perfectly normal thing to do on a

1094

00:44:47,810 --> 00:44:46,260

Wednesday night to rock up to a place to

1095

00:44:49,370 --> 00:44:47,820

listen to scientists blabbering on and

1096

00:44:51,320 --> 00:44:49,380

they're all coming in all excited and

1097

00:44:53,030 --> 00:44:51,330

ready for it and buying their beers like

1098

00:44:55,070 --> 00:44:53,040

like it was not yeah look I must mention

1099

00:44:56,480 --> 00:44:55,080

in Newcastle I'm a Wednesday night the

1100

00:44:58,580 --> 00:44:56,490

uni students that's the night they go

1101

00:45:00,500 --> 00:44:58,590

out drinking and normally by that

1102

00:45:02,300 --> 00:45:00,510

midnight everyone has really / that's

1103

00:45:03,980 --> 00:45:02,310

when most relationships start because

1104

00:45:05,510 --> 00:45:03,990

people they don't try dating they just

1105

00:45:07,040 --> 00:45:05,520

get drunk and see how it goes that that

1106

00:45:08,120 --> 00:45:07,050

is kind of the culture here and it was

1107

00:45:09,800 --> 00:45:08,130

great to see people talking about

1108

00:45:11,510 --> 00:45:09,810

science early on a Wednesday evening

1109

00:45:12,740 --> 00:45:11,520

they will they're probably going going

1110

00:45:15,440 --> 00:45:12,750

home and sort of starting relationships

1111

00:45:16,730 --> 00:45:15,450

now that perhaps by next Wednesday we

1112

00:45:18,410 --> 00:45:16,740

could predict they end I don't know

1113

00:45:20,270 --> 00:45:18,420

scientifically predict that they could

1114

00:45:21,950 --> 00:45:20,280

end my next winter now is any chances

1115

00:45:23,270 --> 00:45:21,960

being more regular in Newcastle have you

1116

00:45:25,700 --> 00:45:23,280

got us an inside running on whether this

1117

00:45:27,020 --> 00:45:25,710

could happen again the everyone I've

1118

00:45:29,030 --> 00:45:27,030

spoken to since is finish tonight

1119

00:45:30,440 --> 00:45:29,040

scientists and the various Panthers have

1120

00:45:31,760 --> 00:45:30,450

all said we want to do more of this

1121

00:45:33,500 --> 00:45:31,770

there should be more of this this should

1122

00:45:35,420 --> 00:45:33,510

happen yet every month and so there's a

1123

00:45:37,700 --> 00:45:35,430

lot of enthusiasm so we'll see what we

1124

00:45:39,470 --> 00:45:37,710

can do about doing doing this more

1125

00:45:41,270 --> 00:45:39,480

actually ABC support has been great

1126
00:45:43,700 --> 00:45:41,280
that's that's a really really good thing

1127
00:46:00,520 --> 00:45:43,710
Jill was Jill was a Sarge of Emerson

1128
00:46:07,070 --> 00:46:03,470
ning xia short industry skeptic zone

1129
00:46:11,480 --> 00:46:07,080
watch elisa o'meara one juice kept I

1130
00:46:14,750 --> 00:46:11,490
talk on da CA n sceptile shaker crucial

1131
00:46:17,150 --> 00:46:14,760
a podcast llamo o mamita with hardened

1132
00:46:20,480 --> 00:46:17,160
sinner hearty pocket and Helios

1133
00:46:23,990 --> 00:46:20,490
intertwined solution in mulund rajesh

1134
00:46:26,660 --> 00:46:24,000
attention chatty Lana cncl link Li Dao

1135
00:46:29,210 --> 00:46:26,670
itunes the chihuahua jan sad sigh

1136
00:46:34,140 --> 00:46:29,220
escaped toi photo chiffon well one of

1137
00:46:39,809 --> 00:46:37,410
thus kept l'd science podcast by brian

1138
00:46:42,299 --> 00:46:39,819

dunning is now available for Chinese

1139

00:46:45,870 --> 00:46:42,309

audience please tell your Chinese

1140

00:46:48,720 --> 00:46:45,880

friends to visit skipped item the CN a

1141

00:47:12,620 --> 00:46:48,730

fine skip toyed and the Chinese itunes

1142

00:47:17,250 --> 00:47:14,760

joining me on the line from the

1143

00:47:19,920 --> 00:47:17,260

beautiful city of Adelaide the wine

1144

00:47:22,890 --> 00:47:19,930

capital of Australia is a man who enjoys

1145

00:47:25,079 --> 00:47:22,900

a dropper to dr. Paul Willis you know

1146

00:47:26,670 --> 00:47:25,089

mate how are you I'm doing really well

1147

00:47:29,400 --> 00:47:26,680

pull it's good to catch up with you

1148

00:47:31,349 --> 00:47:29,410

again I'm sorry you left Sydney sometime

1149

00:47:33,240 --> 00:47:31,359

back now of course but I think you're

1150

00:47:35,579 --> 00:47:33,250

having a pretty good time in Adelaide oh

1151

00:47:37,349 --> 00:47:35,589

look i grew up in Sydney I do love

1152

00:47:39,089 --> 00:47:37,359

Sydney book i can tell you living in

1153

00:47:42,089 --> 00:47:39,099

adelaide sydney is a terrific place to

1154

00:47:44,010 --> 00:47:42,099

be from Adelaide Adelaide is a beautiful

1155

00:47:46,500 --> 00:47:44,020

town and I'm certainly enjoying my time

1156

00:47:50,280 --> 00:47:46,510

here not only because it's a wonderful

1157

00:47:51,480 --> 00:47:50,290

city to live in but also because the job

1158

00:47:54,390 --> 00:47:51,490

that I've got here at the royal

1159

00:47:57,359 --> 00:47:54,400

institution is just well it's as if they

1160

00:47:59,010 --> 00:47:57,369

invented it for me and you know I've

1161

00:48:03,270 --> 00:47:59,020

just had the opportunity to do

1162

00:48:06,089 --> 00:48:03,280

interesting new fun stuff and um well

1163

00:48:07,589 --> 00:48:06,099

you know it's not every day in your

1164

00:48:09,660 --> 00:48:07,599

professional life you given a clean

1165

00:48:11,790 --> 00:48:09,670

sheet of paper and so go ahead draw

1166

00:48:13,710 --> 00:48:11,800

whatever you like in that safe we're

1167

00:48:15,930 --> 00:48:13,720

having a lot of fun that sounds terrific

1168

00:48:18,410 --> 00:48:15,940

and I know that you're very active

1169

00:48:20,609 --> 00:48:18,420

online because I see your tweets

1170

00:48:21,809 --> 00:48:20,619

constantly you're constantly tweeting

1171

00:48:23,880 --> 00:48:21,819

about what's happening at the Royal

1172

00:48:26,280 --> 00:48:23,890

Institute how's that all going with the

1173

00:48:28,559 --> 00:48:26,290

online stuff well the thing is is that

1174

00:48:30,359 --> 00:48:28,569

we've realized that in this day and age

1175

00:48:33,120 --> 00:48:30,369

if you've got a limited budget and

1176

00:48:35,280 --> 00:48:33,130

you're a national organization the

1177

00:48:39,390 --> 00:48:35,290

easiest way to service the nation is

1178

00:48:42,059 --> 00:48:39,400

online and so we are pretty much focused

1179

00:48:45,210 --> 00:48:42,069

now on producing online material that

1180

00:48:48,150 --> 00:48:45,220

people can engage with so if we hold an

1181

00:48:50,190 --> 00:48:48,160

event in our auditorium we live stream

1182

00:48:52,620 --> 00:48:50,200

it and we get people not just across the

1183

00:48:55,410 --> 00:48:52,630

country but around the world following

1184

00:48:56,790 --> 00:48:55,420

in real time those presentations and

1185

00:48:59,579 --> 00:48:56,800

they're actually able to interact

1186

00:49:00,960 --> 00:48:59,589

through Twitter and and through the chat

1187

00:49:03,660 --> 00:49:00,970

rooms so that they can actually ask

1188

00:49:07,140 --> 00:49:03,670

questions you know last year let me give

1189

00:49:10,380 --> 00:49:07,150

you an example last year we had a live

1190

00:49:12,900 --> 00:49:10,390

chat via video link to Antarctica

1191

00:49:16,319 --> 00:49:12,910

Morton vase and that conversation

1192

00:49:20,069 --> 00:49:16,329

between me and Adelaide and and the guys

1193

00:49:21,990 --> 00:49:20,079

in Morton base we relied that live to

1194

00:49:24,210 --> 00:49:22,000

the Internet in high definition it was

1195

00:49:27,240 --> 00:49:24,220

picked up across the country it was also

1196

00:49:29,670 --> 00:49:27,250

picked up in France Canada England and

1197

00:49:32,460 --> 00:49:29,680

the United States and we had people in

1198

00:49:35,339 --> 00:49:32,470

those countries tweeting questions back

1199

00:49:38,370 --> 00:49:35,349

to me to ask of Antarctica so we were

1200

00:49:42,839 --> 00:49:38,380

able to hold a live for continent-wide

1201
00:49:44,849 --> 00:49:42,849
event from this facility so you know

1202
00:49:47,609 --> 00:49:44,859
that's one way that we're able to

1203
00:49:49,500 --> 00:49:47,619
exploit the online environment to meet

1204
00:49:52,559 --> 00:49:49,510
our mission of taking science for the

1205
00:49:54,539 --> 00:49:52,569
people it's wonderful Paula know and I

1206
00:49:57,950 --> 00:49:54,549
think of myself every now and then I

1207
00:50:00,539 --> 00:49:57,960
like living in the future it's quite fun

1208
00:50:02,759 --> 00:50:00,549
well you know but also the opportunities

1209
00:50:05,250 --> 00:50:02,769
that we had to put out vodka laughs you

1210
00:50:07,920 --> 00:50:05,260
know we've got all the recording

1211
00:50:10,890 --> 00:50:07,930
equipment here we've got it essentially

1212
00:50:13,410 --> 00:50:10,900
a five camera high-definition robotics

1213
00:50:15,930 --> 00:50:13,420

to do so we can pull together things

1214

00:50:18,210 --> 00:50:15,940

like vodka is really easily and and the

1215

00:50:20,849 --> 00:50:18,220

vodcast that we're currently putting out

1216

00:50:24,660 --> 00:50:20,859

a week in science is going gangbusters

1217

00:50:27,660 --> 00:50:24,670

it's really taking off and you know

1218

00:50:29,700 --> 00:50:27,670

again an easy way to be able to to get

1219

00:50:31,440 --> 00:50:29,710

the messages of science out not just

1220

00:50:33,440 --> 00:50:31,450

it's not just picked up across Australia

1221

00:50:36,390 --> 00:50:33,450

it's picked up around the world now and

1222

00:50:39,859 --> 00:50:36,400

you know this is the future and and the

1223

00:50:42,299 --> 00:50:39,869

the the thing that impresses me about

1224

00:50:44,460 --> 00:50:42,309

moving over to the Royal Institution

1225

00:50:46,799 --> 00:50:44,470

looking at new ways of doing things is

1226

00:50:48,480 --> 00:50:46,809

that the future of the media the

1227

00:50:51,210 --> 00:50:48,490

difference that a lot of people haven't

1228

00:50:53,819 --> 00:50:51,220

picked up is the old media the

1229

00:50:57,269 --> 00:50:53,829

television stations and newspapers the

1230

00:50:59,700 --> 00:50:57,279

radio the old forms of media the basis

1231

00:51:01,710 --> 00:50:59,710

of their economies was money it was

1232

00:51:03,450 --> 00:51:01,720

about bums on seats and getting the

1233

00:51:05,930 --> 00:51:03,460

advertising revenue in it was a

1234

00:51:09,809 --> 00:51:05,940

money-based venture it was a business

1235

00:51:13,499 --> 00:51:09,819

whereas when we go online it chat

1236

00:51:15,960 --> 00:51:13,509

transfers from being money so ideas

1237

00:51:18,779 --> 00:51:15,970

being the basis of the that economy and

1238

00:51:21,990 --> 00:51:18,789

so whoever puts out the most interesting

1239

00:51:23,859 --> 00:51:22,000

ideas and the most accessible ideas they

1240

00:51:26,289 --> 00:51:23,869

are the ones who are going to take the

1241

00:51:28,839 --> 00:51:26,299

lead in that marketplace so you know

1242

00:51:31,140 --> 00:51:28,849

being able to to be a traitor in the

1243

00:51:33,819 --> 00:51:31,150

market of ideas I find that absolutely

1244

00:51:35,950 --> 00:51:33,829

invigorating what a fabulous that's a

1245

00:51:39,460 --> 00:51:35,960

fabulous way a fabulous outlook I think

1246

00:51:42,009 --> 00:51:39,470

to to take advantage of what is thought

1247

00:51:44,259 --> 00:51:42,019

to all of us it's still new I mean to

1248

00:51:45,970 --> 00:51:44,269

younger kids growing up now it's it's

1249

00:51:48,819 --> 00:51:45,980

what they've always known but for us old

1250

00:51:51,130 --> 00:51:48,829

fossils so to speak who we remember when

1251
00:51:53,920 --> 00:51:51,140
all this was coming about oh don't run

1252
00:51:55,539 --> 00:51:53,930
yourself down too far Richard you know

1253
00:51:58,630 --> 00:51:55,549
they me I mean look at what you're doing

1254
00:52:01,599 --> 00:51:58,640
with this podcast you know this is this

1255
00:52:04,870 --> 00:52:01,609
is you being able to take control of the

1256
00:52:07,089 --> 00:52:04,880
media and put your messages out directly

1257
00:52:08,950 --> 00:52:07,099
to your audience that's true you know

1258
00:52:11,499 --> 00:52:08,960
and you've only got to go back 10 years

1259
00:52:13,150 --> 00:52:11,509
that was impossible if you wanted to

1260
00:52:16,779 --> 00:52:13,160
talk to an audience you had to go

1261
00:52:18,609 --> 00:52:16,789
through a media corporation you had to

1262
00:52:21,249 --> 00:52:18,619
go through a television station or a

1263
00:52:23,529 --> 00:52:21,259

radio station or a newspaper that the

1264

00:52:25,839 --> 00:52:23,539

message ceased to be yours it was

1265

00:52:29,049 --> 00:52:25,849

filtered through what they wanted to do

1266

00:52:32,470 --> 00:52:29,059

in order to not get your ideas across

1267

00:52:35,739 --> 00:52:32,480

but in order to make money yeah and so

1268

00:52:37,960 --> 00:52:35,749

you know you and I are on the crest of a

1269

00:52:41,890 --> 00:52:37,970

wave here and this is the wave of the

1270

00:52:44,890 --> 00:52:41,900

future for the media it's all about good

1271

00:52:47,319 --> 00:52:44,900

ideas and so you know strength to your

1272

00:52:50,170 --> 00:52:47,329

podcast strength to our vodcast it's all

1273

00:52:52,210 --> 00:52:50,180

about taking those ideas directly to the

1274

00:52:54,579 --> 00:52:52,220

people who are interested in those ideas

1275

00:52:56,259 --> 00:52:54,589

but talking about the old fashioned

1276
00:52:58,120 --> 00:52:56,269
media for a moment we can think that

1277
00:53:00,309 --> 00:52:58,130
ancient technology called television

1278
00:53:03,069 --> 00:53:00,319
here I was sitting at home the other day

1279
00:53:05,140 --> 00:53:03,079
quite comfortable on my couch channel

1280
00:53:09,460 --> 00:53:05,150
surfing and what do I see you're beaming

1281
00:53:10,989 --> 00:53:09,470
face come up thank you very much many

1282
00:53:14,799 --> 00:53:10,999
people have commented how similar you

1283
00:53:16,599 --> 00:53:14,809
and I are yeah that's true now there are

1284
00:53:19,359 --> 00:53:16,609
you I knew you were coming up now you

1285
00:53:22,599 --> 00:53:19,369
were on the ABC or on a nationwide

1286
00:53:25,569 --> 00:53:22,609
program news24 yeah that's right there

1287
00:53:26,920 --> 00:53:25,579
the 24-hour news network talking about

1288
00:53:29,470 --> 00:53:26,930

something which I find intensely

1289

00:53:32,710 --> 00:53:29,480

interesting and I always have dinosaurs

1290

00:53:35,920 --> 00:53:32,720

but specifically the extinction event

1291

00:53:41,800 --> 00:53:35,930

and new research yeah

1292

00:53:43,330 --> 00:53:41,810

um wasn't I fabulous oh I could I

1293

00:53:45,130 --> 00:53:43,340

recorded it so I could watch it again

1294

00:53:49,060 --> 00:53:45,140

and again as I keep having to say fig

1295

00:53:50,860 --> 00:53:49,070

jam look the thing with what that story

1296

00:53:53,230 --> 00:53:50,870

was all about is it's a great piece of

1297

00:53:58,390 --> 00:53:53,240

research essentially you know we've

1298

00:54:00,400 --> 00:53:58,400

known for the last 30 years that around

1299

00:54:02,190 --> 00:54:00,410

the time the dinosaurs disappeared the

1300

00:54:05,740 --> 00:54:02,200

earth was whacked by a large meteorite

1301
00:54:07,900 --> 00:54:05,750
now the main school of thought said the

1302
00:54:10,120 --> 00:54:07,910
meteorite did it the meteorite was the

1303
00:54:11,350 --> 00:54:10,130
reason why the dinosaurs and virtually

1304
00:54:13,840 --> 00:54:11,360
everything else on the planet went

1305
00:54:15,580 --> 00:54:13,850
extinct but there was a dissenting group

1306
00:54:17,980 --> 00:54:15,590
and they had some evidence to back them

1307
00:54:20,200 --> 00:54:17,990
up themselves up that said the trouble

1308
00:54:23,250 --> 00:54:20,210
with that scenario is the meteorite

1309
00:54:26,830 --> 00:54:23,260
appears to have hit about 300,000 years

1310
00:54:29,680 --> 00:54:26,840
before the dinosaurs disappear and so

1311
00:54:31,390 --> 00:54:29,690
therefore you know the link between the

1312
00:54:34,780 --> 00:54:31,400
meteorite impact and the dinosaurs

1313
00:54:36,880 --> 00:54:34,790

disappearing is a little less clear than

1314

00:54:40,210 --> 00:54:36,890

than the other camp would have you

1315

00:54:42,070 --> 00:54:40,220

believe it again yeah it is quite a gap

1316

00:54:45,010 --> 00:54:42,080

and a large part of that was because

1317

00:54:48,220 --> 00:54:45,020

well the the crater that they've found

1318

00:54:50,770 --> 00:54:48,230

which they believe is the crater of the

1319

00:54:53,140 --> 00:54:50,780

impact the Chicxulub crater on the

1320

00:54:55,810 --> 00:54:53,150

Yucatan Peninsula it's under about a

1321

00:54:58,300 --> 00:54:55,820

kilometer of rock and so you can only

1322

00:55:00,460 --> 00:54:58,310

study it by drilling down through it all

1323

00:55:02,920 --> 00:55:00,470

by doing seismic work and looking at the

1324

00:55:05,680 --> 00:55:02,930

reflected waves that couldn't bounce

1325

00:55:09,490 --> 00:55:05,690

back off of it and when you drill down

1326

00:55:13,060 --> 00:55:09,500

it you can actually find stuff inside

1327

00:55:16,600 --> 00:55:13,070

the crater which is older than the age

1328

00:55:20,830 --> 00:55:16,610

of the dinosaurs went extinct by about

1329

00:55:25,060 --> 00:55:20,840

300,000 years right right now what it

1330

00:55:27,100 --> 00:55:25,070

appears now is that that older stuff in

1331

00:55:30,250 --> 00:55:27,110

the bottom of the crater is stuff that

1332

00:55:33,580 --> 00:55:30,260

slump down after the crater formed so

1333

00:55:35,590 --> 00:55:33,590

you had the edge of the crater and then

1334

00:55:37,030 --> 00:55:35,600

some older stuff from the edge of the

1335

00:55:40,120 --> 00:55:37,040

crater slumps down to the bottom and

1336

00:55:43,060 --> 00:55:40,130

appears to be on top of the impact

1337

00:55:45,190 --> 00:55:43,070

itself and that artificially makes it

1338

00:55:48,130 --> 00:55:45,200

look like the crater is 300,000 years

1339

00:55:49,130 --> 00:55:48,140

older than it really is so what what

1340

00:55:51,440 --> 00:55:49,140

there's recent

1341

00:55:53,599 --> 00:55:51,450

daddy did was it went back and it looked

1342

00:55:55,940 --> 00:55:53,609

through all of the data it went through

1343

00:55:59,029 --> 00:55:55,950

all the dating of the crater itself as

1344

00:56:00,980 --> 00:55:59,039

well as looking at the rates of

1345

00:56:02,750 --> 00:56:00,990

extinction amongst the dinosaurs and

1346

00:56:05,779 --> 00:56:02,760

loads of other groups of organisms and

1347

00:56:08,539 --> 00:56:05,789

said no look that 300,000 year gap

1348

00:56:11,630 --> 00:56:08,549

doesn't exist if anything there's a gap

1349

00:56:15,500 --> 00:56:11,640

of maybe 30,000 years which in

1350

00:56:19,579 --> 00:56:15,510

geological terms is an instant so you

1351
00:56:21,789 --> 00:56:19,589
know essentially it's not overturned our

1352
00:56:24,529 --> 00:56:21,799
understanding it's refined our

1353
00:56:26,960 --> 00:56:24,539
understanding of what happened the

1354
00:56:28,519 --> 00:56:26,970
dinosaurs do seem to have been suffering

1355
00:56:30,620 --> 00:56:28,529
some groups of dinosaurs more than

1356
00:56:32,839 --> 00:56:30,630
others do seem to have been suffering

1357
00:56:35,420 --> 00:56:32,849
for a few million years prior to that

1358
00:56:37,370 --> 00:56:35,430
impact but that impact was the coup de

1359
00:56:41,089 --> 00:56:37,380
Gras that was what wiped then and

1360
00:56:44,750 --> 00:56:41,099
something like 70 odd percent of species

1361
00:56:46,640 --> 00:56:44,760
on the planet out yes and as we know it

1362
00:56:49,099 --> 00:56:46,650
happens periodically through Earth's

1363
00:56:51,529 --> 00:56:49,109

history hmmm and of course the the thing

1364

00:56:53,960 --> 00:56:51,539

in the back of our mind is well one day

1365

00:56:56,390 --> 00:56:53,970

is our friend dr. Phil Plait says it's

1366

00:56:59,329 --> 00:56:56,400

not a question of if it'll happen again

1367

00:57:02,749 --> 00:56:59,339

it's a question of when well you know if

1368

00:57:05,029 --> 00:57:02,759

it was a betting proposition odd I'd

1369

00:57:07,749 --> 00:57:05,039

prefer to be betting on drugs and sport

1370

00:57:10,670 --> 00:57:07,759

you know there's much greater certainty

1371

00:57:15,079 --> 00:57:10,680

that it's going to happen within our

1372

00:57:18,519 --> 00:57:15,089

lifetimes the idea of a meteorite here I

1373

00:57:21,970 --> 00:57:18,529

mean this tomorrow morning I believe

1374

00:57:30,499 --> 00:57:21,980

we're going to have a fly part of

1375

00:57:32,870 --> 00:57:30,509

asteroid 2012 da14 and that's going to

1376

00:57:35,089 --> 00:57:32,880

pass within something like twenty six

1377

00:57:39,529 --> 00:57:35,099

thousand kilometres of the earth now

1378

00:57:41,900 --> 00:57:39,539

that's only 15 metres across if it hit

1379

00:57:44,450 --> 00:57:41,910

the earth look if it was a king hit on a

1380

00:57:47,120 --> 00:57:44,460

major city yeah it would cause a bit of

1381

00:57:48,829 --> 00:57:47,130

problems it would create it you you'll

1382

00:57:52,700 --> 00:57:48,839

be saying goodbye to a few thousand

1383

00:57:55,069 --> 00:57:52,710

people but that's not the sort of impact

1384

00:57:58,519 --> 00:57:55,079

that we're talking about where the wiped

1385

00:58:00,620 --> 00:57:58,529

out the dinosaurs the meteorite that

1386

00:58:03,260 --> 00:58:00,630

will hit the earth then back at the

1387

00:58:05,150 --> 00:58:03,270

end of the Cretaceous wasn't 15 meters

1388

00:58:08,210 --> 00:58:05,160

across it was something like ten

1389

00:58:09,950 --> 00:58:08,220

kilometres across and when you've got

1390

00:58:11,860 --> 00:58:09,960

something that big you're talking about

1391

00:58:15,080 --> 00:58:11,870

something much bigger than Mount Everest

1392

00:58:17,180 --> 00:58:15,090

when that slams into the earth traveling

1393

00:58:19,910 --> 00:58:17,190

at an average speed of about fifty

1394

00:58:22,250 --> 00:58:19,920

thousand kilometres an hour the energy

1395

00:58:24,830 --> 00:58:22,260

released is absolutely enormous you're

1396

00:58:26,990 --> 00:58:24,840

talking about the equivalent of a hora

1397

00:58:29,900 --> 00:58:27,000

from a bomb for every man woman and

1398

00:58:33,320 --> 00:58:29,910

child on the planet today with a billion

1399

00:58:35,510 --> 00:58:33,330

spare you release that you release that

1400

00:58:37,400 --> 00:58:35,520

much energy you're going to cause a lot

1401
00:58:39,260 --> 00:58:37,410
of trouble you're going to vaporize you

1402
00:58:41,240 --> 00:58:39,270
know virtually everything within 2,000

1403
00:58:42,740 --> 00:58:41,250
kilometers of the impact site you're

1404
00:58:46,040 --> 00:58:42,750
going to incinerate everything within

1405
00:58:49,820 --> 00:58:46,050
five thousand kilometers the soot and

1406
00:58:52,280 --> 00:58:49,830
dust that those fires we with into the

1407
00:58:54,020 --> 00:58:52,290
impact zone are going to spread because

1408
00:58:56,000 --> 00:58:54,030
material is going to be blown back out

1409
00:58:58,700 --> 00:58:56,010
into the app into above the atmosphere

1410
00:59:00,050 --> 00:58:58,710
and come down as burning masses all

1411
00:59:01,910 --> 00:59:00,060
around the world so you're going to set

1412
00:59:04,010 --> 00:59:01,920
off fires right the way around the

1413
00:59:06,290 --> 00:59:04,020

planet you're going to set off so much

1414

00:59:07,850 --> 00:59:06,300

ash into the atmosphere that you're

1415

00:59:10,850 --> 00:59:07,860

going to block out sunlight to the

1416

00:59:13,070 --> 00:59:10,860

planet probably four months possibly

1417

00:59:15,890 --> 00:59:13,080

four years if you cut out sunlight

1418

00:59:17,900 --> 00:59:15,900

plants can't grow if plants can't grow

1419

00:59:19,780 --> 00:59:17,910

plant eaters die if plant-eaters dying

1420

00:59:24,170 --> 00:59:19,790

media's die the whole food chain

1421

00:59:26,720 --> 00:59:24,180

collapses so you know well you might

1422

00:59:28,250 --> 00:59:26,730

have some cause for concern for tomorrow

1423

00:59:31,130 --> 00:59:28,260

morning when this little thing and

1424

00:59:32,810 --> 00:59:31,140

buzzes past believe me unless you're

1425

00:59:34,610 --> 00:59:32,820

right underneath it and it's not going

1426
00:59:36,680 --> 00:59:34,620
to hit the earth anyway even if you were

1427
00:59:38,660 --> 00:59:36,690
right underneath it chances are it would

1428
00:59:41,150 --> 00:59:38,670
be nothing like what the dinosaurs had

1429
00:59:43,460 --> 00:59:41,160
to put up with well I'm quite surprised

1430
00:59:45,680 --> 00:59:43,470
the way you talk about the size of the

1431
00:59:49,720 --> 00:59:45,690
thing and the energy released at the

1432
00:59:52,610 --> 00:59:49,730
time and the damage that some dinosaurs

1433
00:59:55,760 --> 00:59:52,620
managed to hang on after such an

1434
00:59:58,840 --> 00:59:55,770
incredible event what look at this is

1435
01:00:02,030 --> 00:59:58,850
that the the the real problem of

1436
01:00:04,850 --> 01:00:02,040
explaining a mass extinction is not so

1437
01:00:06,680 --> 01:00:04,860
much how you wipe everything out but how

1438
01:00:09,410 --> 01:00:06,690

the things that get through survive

1439

01:00:13,040 --> 01:00:09,420

that's the real that's the trickiest

1440

01:00:15,650 --> 01:00:13,050

part it's easy to wipe everything out

1441

01:00:18,080 --> 01:00:15,660

you know no problem but how do you

1442

01:00:21,620 --> 01:00:18,090

actually have a scenario where a few

1443

01:00:23,870 --> 01:00:21,630

things survive because yes one group of

1444

01:00:26,150 --> 01:00:23,880

dinosaurs survived the birds you also

1445

01:00:28,100 --> 01:00:26,160

had the mammals survived you had lizards

1446

01:00:31,280 --> 01:00:28,110

he had snakes you had turtles you had

1447

01:00:33,440 --> 01:00:31,290

crocodiles you had frogs you had a

1448

01:00:35,450 --> 01:00:33,450

number of different types of fish and

1449

01:00:39,470 --> 01:00:35,460

corals and all sorts of invertebrates

1450

01:00:43,460 --> 01:00:39,480

how do I get through when everything

1451

01:00:45,980 --> 01:00:43,470

else disappears and the part of the

1452

01:00:47,900 --> 01:00:45,990

answer is there's three things that

1453

01:00:50,840 --> 01:00:47,910

particularly vertebrates have in common

1454

01:00:53,480 --> 01:00:50,850

that survived that extinction one is

1455

01:00:55,610 --> 01:00:53,490

they were all small nothing over 25

1456

01:01:00,280 --> 01:00:55,620

kilograms in mass as an adult got

1457

01:01:02,600 --> 01:01:00,290

through Wow secondly they all heard were

1458

01:01:04,520 --> 01:01:02,610

generalist feeders in other words they

1459

01:01:06,110 --> 01:01:04,530

weren't tied to a particular food source

1460

01:01:09,500 --> 01:01:06,120

i get anything that was going around

1461

01:01:12,350 --> 01:01:09,510

and thirdly most of them had some

1462

01:01:14,630 --> 01:01:12,360

capacity to go into torpor when things

1463

01:01:16,880 --> 01:01:14,640

go bad so they could hibernate they

1464

01:01:20,690 --> 01:01:16,890

could go shut their systems down and

1465

01:01:24,530 --> 01:01:20,700

then wake up when things got better so

1466

01:01:26,510 --> 01:01:24,540

those three factors together allow just

1467

01:01:30,650 --> 01:01:26,520

enough of those particular groups to get

1468

01:01:33,440 --> 01:01:30,660

through whereas you know as a seven-ton

1469

01:01:35,390 --> 01:01:33,450

triceratops has got nowhere to hide it

1470

01:01:38,870 --> 01:01:35,400

needs a constant supply of food which

1471

01:01:42,440 --> 01:01:38,880

disappears you know it's a goner it's no

1472

01:01:45,170 --> 01:01:42,450

hope so yeah it's a fascinating

1473

01:01:47,810 --> 01:01:45,180

speculations how you survive an event

1474

01:01:51,200 --> 01:01:47,820

like that I'll by the way just reflect

1475

01:01:53,420 --> 01:01:51,210

on that 25 kilograms in mass and humans

1476

01:01:55,160 --> 01:01:53,430

are pretty much above that can eat

1477

01:01:57,680 --> 01:01:55,170

anything yeah we can eat anything you

1478

01:02:00,770 --> 01:01:57,690

know we could glue in Solomon's going to

1479

01:02:02,960 --> 01:02:00,780

tour patent that no not so you had two

1480

01:02:06,230 --> 01:02:02,970

strikes out of three I don't think would

1481

01:02:08,330 --> 01:02:06,240

survive an impact like that I would we

1482

01:02:10,070 --> 01:02:08,340

wanted that's another question who we

1483

01:02:11,690 --> 01:02:10,080

wanted maybe we could let the dinosaur's

1484

01:02:14,180 --> 01:02:11,700

cave go ahead but look on the bright

1485

01:02:15,920 --> 01:02:14,190

side no Justin Bieber well that there is

1486

01:02:17,510 --> 01:02:15,930

a good side to everything every cloud

1487

01:02:19,430 --> 01:02:17,520

has a silver lining I won't tell my

1488

01:02:22,130 --> 01:02:19,440

niece is that they're mad on Justin

1489

01:02:23,790 --> 01:02:22,140

Bieber folks this is the sort of things

1490

01:02:25,470 --> 01:02:23,800

that is an everyday occurrence

1491

01:02:26,850 --> 01:02:25,480

said the Royal Institute not impacts

1492

01:02:29,400 --> 01:02:26,860

hitting it or anything like that but

1493

01:02:31,950 --> 01:02:29,410

talking about it exploring it discussing

1494

01:02:33,210 --> 01:02:31,960

it investigating it and something dr.

1495

01:02:35,490 --> 01:02:33,220

Paul Willis has been doing for many

1496

01:02:38,310 --> 01:02:35,500

years not only on television but now

1497

01:02:40,200 --> 01:02:38,320

down at the Royal Institute Paul how can

1498

01:02:46,380 --> 01:02:40,210

people hook up with you check out our

1499

01:02:48,360 --> 01:02:46,390

website riasa us that's RI org dot au and

1500

01:02:51,750 --> 01:02:48,370

there's all sorts of things you can do

1501

01:02:55,200 --> 01:02:51,760

there particularly subscribe to our

1502

01:03:00,150 --> 01:02:55,210

podcast every week on a Friday we put

1503

01:03:03,360 --> 01:03:00,160

out a 34 minutes summary of the the best

1504

01:03:06,240 --> 01:03:03,370

news in science for the week and you

1505

01:03:08,310 --> 01:03:06,250

know you can watch it on your iPhone so

1506

01:03:10,350 --> 01:03:08,320

on on your way home from work on a

1507

01:03:12,750 --> 01:03:10,360

Friday night you can catch up with the

1508

01:03:14,610 --> 01:03:12,760

best and brightest of science news just

1509

01:03:16,040 --> 01:03:14,620

by watching our vodcast there's all

1510

01:03:18,720 --> 01:03:16,050

sorts of other ways you can participate

1511

01:03:21,120 --> 01:03:18,730

get involved with the live streams of

1512

01:03:22,470 --> 01:03:21,130

our events so that you can actually you

1513

01:03:24,570 --> 01:03:22,480

know doesn't matter where you are in the

1514

01:03:26,490 --> 01:03:24,580

country you can still be part of the

1515

01:03:29,280 --> 01:03:26,500

audience here in adelaide all sorts of

1516

01:03:31,080 --> 01:03:29,290

fun ways go to the website or indeed

1517

01:03:35,700 --> 01:03:31,090

anywhere in the world indeed most

1518

01:03:37,110 --> 01:03:35,710

definitely in Antarctica even though i'm

1519

01:03:38,700 --> 01:03:37,120

very jealous you've been there are a

1520

01:03:43,220 --> 01:03:38,710

number of times over one day i'll get

1521

01:03:46,170 --> 01:03:43,230

down yeah it's cold I so I understand

1522

01:03:49,920 --> 01:03:46,180

another another little gym oh and always

1523

01:03:51,840 --> 01:03:49,930

good for the inside information all

1524

01:03:54,360 --> 01:03:51,850

power to you dr. Paul Willis I hope one

1525

01:03:56,790 --> 01:03:54,370

day soon I can come down and we'll maybe

1526

01:03:58,500 --> 01:03:56,800

even get a personal tour you'll be most

1527

01:04:01,470 --> 01:03:58,510

welcome for a personal tour because I do

1528

01:04:05,130 --> 01:04:01,480

believe you owe me a beer at least one

1529

01:04:13,190 --> 01:04:05,140

dr. pol was haha thanks very much Cheers

1530

01:04:17,850 --> 01:04:16,020

hey guys this is jay from the skeptics

1531

01:04:20,640 --> 01:04:17,860

guide to the universe er well hold on

1532

01:04:22,410 --> 01:04:20,650

whoa everybody knows I'm the only reason

1533

01:04:23,580 --> 01:04:22,420

to listen to the Freak Show right I mean

1534

01:04:30,330 --> 01:04:23,590

if it was up to me the show would start

1535

01:04:32,250 --> 01:04:30,340

with this yeah boy well Rebecca would

1536

01:04:33,960 --> 01:04:32,260

hate that probably but I mean I'd rock

1537

01:04:34,980 --> 01:04:33,970

that listen to our show and you can

1538

01:04:36,660 --> 01:04:34,990

learn about cool stuff like a

1539

01:04:38,430 --> 01:04:36,670

technological singularity which is

1540

01:04:39,930 --> 01:04:38,440

someday when technology progresses so

1541

01:04:41,310 --> 01:04:39,940

fast that it would make the Industrial

1542

01:04:44,340 --> 01:04:41,320

Revolution look like a kid science

1543

01:05:02,040 --> 01:04:44,350

project anyway come check us out at WWDC

1544

01:05:06,610 --> 01:05:04,690

thank you for listening to the skeptic

1545

01:05:08,530 --> 01:05:06,620

zone and another thank you to those

1546

01:05:12,490 --> 01:05:08,540

people who contribute financially to the

1547

01:05:14,830 --> 01:05:12,500

skeptic zone even a dollar a week it's

1548

01:05:16,360 --> 01:05:14,840

fantastic so enough of people are

1549

01:05:18,070 --> 01:05:16,370

chipping a dollar a week it helps me

1550

01:05:20,290 --> 01:05:18,080

keep the show going and in fact just in

1551
01:05:23,230 --> 01:05:20,300
the last week I was able to buy another

1552
01:05:24,850 --> 01:05:23,240
one of our reporters travis roy travis

1553
01:05:27,190 --> 01:05:24,860
roy in new hampshire in the united

1554
01:05:29,500 --> 01:05:27,200
states i was able to buy him a lovely

1555
01:05:31,420 --> 01:05:29,510
little hand recorder so he can do some

1556
01:05:34,180 --> 01:05:31,430
more reports for the skeptic zone and

1557
01:05:37,540 --> 01:05:34,190
that's all due to the generosity of

1558
01:05:42,370 --> 01:05:37,550
listeners just like you for more details

1559
01:05:44,650 --> 01:05:42,380
visit WWF techzone TV but for now this

1560
01:05:51,040 --> 01:05:44,660
is Richard Saunders signing off from

1561
01:05:55,260 --> 01:05:51,050
Sydney Australia you've been listening

1562
01:05:59,950 --> 01:05:55,270
to the skeptic zone visit her website at

1563
01:06:11,800 --> 01:05:59,960

[www skeptics on TV](http://www.skepticsontv.com) for comments contacts