

1  
00:00:01,310 --> 00:00:13,889  
right everyone buckle up back there yes

2  
00:00:04,410 --> 00:00:16,560  
dad welcome to the skeptic zone the

3  
00:00:13,888 --> 00:00:19,009  
podcast from Australia for science and

4  
00:00:16,559 --> 00:00:19,009  
reason

5  
00:00:28,179 --> 00:00:34,549  
hello and welcome to the skeptic zone

6  
00:00:31,100 --> 00:00:38,719  
episode number 226 for the 16th of

7  
00:00:34,549 --> 00:00:41,629  
februari 2013 Richard Saunders here with

8  
00:00:38,719 --> 00:00:44,420  
you from Sydney Australia and yes that

9  
00:00:41,630 --> 00:00:45,920  
was another little tease for solar flare

10  
00:00:44,420 --> 00:00:48,500  
at the beginning of the show what is

11  
00:00:45,920 --> 00:00:52,309  
main are doing with all of us being

12  
00:00:48,500 --> 00:00:53,539  
buckled up boggles the mind we're going

13  
00:00:52,308 --> 00:00:55,519  
to kick off today's show with an

14  
00:00:53,539 --> 00:00:57,859  
interview with a very dear friend of

15  
00:00:55,520 --> 00:01:01,280  
mine dr. Chrissy Wilson who was on the

16  
00:00:57,859 --> 00:01:03,710  
show 0 for 5 weeks ago dr. Chrissy's

17  
00:01:01,280 --> 00:01:07,129  
going to tell us more about her soap

18  
00:01:03,710 --> 00:01:11,719  
activities soap science of animalistic

19  
00:01:07,129 --> 00:01:14,929  
phenomena and how you can help her

20  
00:01:11,719 --> 00:01:18,590  
scientific research after that it's

21  
00:01:14,930 --> 00:01:20,390  
Maynard up in Newcastle which is the

22  
00:01:18,590 --> 00:01:24,340  
major city just for the north of Sydney

23  
00:01:20,390 --> 00:01:26,599  
where he attended a science in the pub I

24  
00:01:24,340 --> 00:01:28,370  
think may not like going to the pub

25  
00:01:26,599 --> 00:01:31,129  
especially when they're skeptics and

26  
00:01:28,370 --> 00:01:33,439  
scientists involved science in the pub

27  
00:01:31,129 --> 00:01:36,409  
with Maynard getting the reactions from

28  
00:01:33,439 --> 00:01:40,039  
various pub goers and what they thought

29

00:01:36,409 --> 00:01:41,689  
of the science in the pub idea then

30  
00:01:40,040 --> 00:01:43,400  
throughout off the show another dear old

31  
00:01:41,689 --> 00:01:45,799  
friend of mine dr. Paul Willis who's the

32  
00:01:43,400 --> 00:01:48,500  
director of the Royal Institution of

33  
00:01:45,799 --> 00:01:51,739  
Australia in Adelaide bringing science

34  
00:01:48,500 --> 00:01:53,000  
to people and people to science Paul's

35  
00:01:51,739 --> 00:01:55,359  
going to tell us about the recent

36  
00:01:53,000 --> 00:01:58,969  
activities at the Royal Institution and

37  
00:01:55,359 --> 00:02:02,030  
the latest findings into the extinction

38  
00:01:58,969 --> 00:02:04,370  
of the dinosaurs that's coming up at the

39  
00:02:02,030 --> 00:02:06,500  
end of the show now let me take this

40  
00:02:04,370 --> 00:02:08,569  
opportunity to send out a huge

41  
00:02:06,500 --> 00:02:11,360  
congratulations and all my love and good

42  
00:02:08,568 --> 00:02:13,458  
wishes to my dear friends Jay and

43  
00:02:11,360 --> 00:02:15,410

Courtney novella and the wonderful news

44  
00:02:13,459 --> 00:02:18,050  
of the birth of their son Dylan Wow the

45  
00:02:15,409 --> 00:02:20,439  
pictures look fantastic I can't wait to

46  
00:02:18,050 --> 00:02:23,269  
meet him I can't wait to meet him

47  
00:02:20,439 --> 00:02:26,989  
congratulations Jay and Courtney what

48  
00:02:23,269 --> 00:02:29,360  
wonderful news I was in fact I was part

49  
00:02:26,989 --> 00:02:32,150  
of the little group gathered at the

50  
00:02:29,360 --> 00:02:35,360  
sydney opera house Jay when you propose

51  
00:02:32,150 --> 00:02:39,800  
to Courtney in just before Tam in fact

52  
00:02:35,360 --> 00:02:42,260  
Tim Australia in 2010 Wow fantastic news

53  
00:02:39,800 --> 00:02:45,890  
and some interesting news for people in

54  
00:02:42,259 --> 00:02:49,129  
Australia especially if you fancy

55  
00:02:45,889 --> 00:02:51,259  
yourself to be a water diviner can you

56  
00:02:49,129 --> 00:02:53,180  
find water or gold with the divining rod

57  
00:02:51,259 --> 00:02:56,329  
that's the question Australian skeptics

58  
00:02:53,180 --> 00:02:57,710  
are asking and we have a challenge the

59  
00:02:56,330 --> 00:02:59,840  
challenge will be held at MIT emitter

60  
00:02:57,710 --> 00:03:03,530  
Victoria on the tenth of March this year

61  
00:02:59,840 --> 00:03:08,780  
2013 so we're asking for water diviners

62  
00:03:03,530 --> 00:03:10,550  
to come along have a go test your skills

63  
00:03:08,780 --> 00:03:13,330  
and who knows you might be up for our

64  
00:03:10,550 --> 00:03:17,570  
prize money of I think it's looking like

65  
00:03:13,330 --> 00:03:18,890  
110 thousand dollars at the moment now

66  
00:03:17,569 --> 00:03:21,469  
mid emitter is a wonderful little

67  
00:03:18,889 --> 00:03:23,839  
country town and the water divining

68  
00:03:21,469 --> 00:03:26,719  
tests going to be part of the mighty

69  
00:03:23,840 --> 00:03:30,979  
meter master and midam it is not too far

70  
00:03:26,719 --> 00:03:33,349  
outside of the Albury Wodonga area so if

71  
00:03:30,979 --> 00:03:37,069  
you are awarded a vaina or you know what

72  
00:03:33,349 --> 00:03:44,150  
a diviner contact laurie smith and his

73  
00:03:37,069 --> 00:03:53,359  
phone number is zero to 60 7 2 3 4 15 or

74  
00:03:44,150 --> 00:03:56,689  
email him at CA ll a G H a NS 1 at gmail

75  
00:03:53,360 --> 00:04:00,020  
com find out some more information turn

76  
00:03:56,689 --> 00:04:01,879  
up on the day on the tenth of March 2013

77  
00:04:00,020 --> 00:04:05,140  
at millimeter take part in the

78  
00:04:01,879 --> 00:04:08,150  
Australian skeptics water divining

79  
00:04:05,139 --> 00:04:10,429  
challenge well my voice running out the

80  
00:04:08,150 --> 00:04:12,080  
door I don't know why must be all that

81  
00:04:10,430 --> 00:04:14,959  
singing and yelling I been doing lately

82  
00:04:12,080 --> 00:04:18,199  
I think I'll run downstairs have a nice

83  
00:04:14,959 --> 00:04:21,790  
glass of peppermint tea while you enjoy

84  
00:04:18,199 --> 00:04:21,789  
the skeptic zone

85  
00:04:35,949 --> 00:04:42,740  
hello my name is dr. Kris e wilson and i

86

00:04:40,339 --> 00:04:44,689  
am a lecturer in psychology here at

87  
00:04:42,740 --> 00:04:48,079  
charles sturt university of the

88  
00:04:44,689 --> 00:04:50,180  
beautiful albury-wodonga campus my area

89  
00:04:48,079 --> 00:04:52,159  
of expertise is known as animalistic

90  
00:04:50,180 --> 00:04:54,560  
psychology which I bet most of you

91  
00:04:52,160 --> 00:04:56,949  
haven't heard of but I'm sure you'll

92  
00:04:54,560 --> 00:04:58,689  
have heard of parapsychology

93  
00:04:56,949 --> 00:05:01,040  
parapsychology tends to be very

94  
00:04:58,689 --> 00:05:03,500  
sympathetic towards claims of the

95  
00:05:01,040 --> 00:05:06,350  
paranormal towards claims of psychic

96  
00:05:03,500 --> 00:05:08,930  
forces and related phenomena whereas

97  
00:05:06,350 --> 00:05:11,720  
animalistic psychology is far more

98  
00:05:08,930 --> 00:05:14,180  
skeptical in its approach tending rather

99  
00:05:11,720 --> 00:05:17,150  
to look for psychological and in some

100  
00:05:14,180 --> 00:05:19,069

cases physiological reasons why some

101

00:05:17,149 --> 00:05:22,459

people believe in weird and wonderful

102

00:05:19,069 --> 00:05:24,620

things essentially what I'm trying to do

103

00:05:22,459 --> 00:05:29,269

is to try and understand the psychology

104

00:05:24,620 --> 00:05:32,478

of belief earlier this year I set up a

105

00:05:29,269 --> 00:05:34,549

brand new research unit here at CSU

106

00:05:32,478 --> 00:05:39,199

called the science of animalistic

107

00:05:34,550 --> 00:05:41,990

phenomena or soap soaps aim is to

108

00:05:39,199 --> 00:05:44,389

investigate a psychology of belief to

109

00:05:41,990 --> 00:05:46,728

explore some of those reasons why people

110

00:05:44,389 --> 00:05:48,500

believe in weird and wonderful things to

111

00:05:46,728 --> 00:05:50,990

look at individual difference measures

112

00:05:48,500 --> 00:05:53,329

to look at biological factors to look at

113

00:05:50,990 --> 00:05:56,500

the role of cognition not only in belief

114

00:05:53,329 --> 00:06:00,589

but to explore the nature of ostensibly

115  
00:05:56,500 --> 00:06:02,478  
paranormal experiences so thanks for

116  
00:06:00,589 --> 00:06:04,069  
logging on to the soap website today I

117  
00:06:02,478 --> 00:06:05,899  
hope you'll find some fun and

118  
00:06:04,069 --> 00:06:08,300  
interesting information for you to look

119  
00:06:05,899 --> 00:06:10,519  
at you can check out who the members of

120  
00:06:08,300 --> 00:06:12,288  
soap are you can find out what kind of

121  
00:06:10,519 --> 00:06:14,659  
activities and what kind of studies

122  
00:06:12,288 --> 00:06:16,430  
we're running here you can also look at

123  
00:06:14,660 --> 00:06:19,220  
some interesting publications that I've

124  
00:06:16,430 --> 00:06:21,410  
uploaded for you interesting articles on

125  
00:06:19,220 --> 00:06:23,300  
all kinds of information about the

126  
00:06:21,410 --> 00:06:26,150  
psychology of belief and related

127  
00:06:23,300 --> 00:06:28,160  
phenomena most importantly though I'd

128  
00:06:26,149 --> 00:06:30,829  
like you to have a look at our research

129  
00:06:28,160 --> 00:06:32,900  
participation if you'd like to take part

130  
00:06:30,829 --> 00:06:35,329  
in any of our studies simply follow the

131  
00:06:32,899 --> 00:06:37,069  
links it'll only take about 15 or 20

132  
00:06:35,329 --> 00:06:37,728  
minutes for you to complete one of our

133  
00:06:37,069 --> 00:06:39,889  
survey

134  
00:06:37,728 --> 00:06:41,389  
I hope you have fun with it and thanks

135  
00:06:39,889 --> 00:06:50,389  
very much for logging on today and

136  
00:06:41,389 --> 00:06:52,759  
welcome to soap and joining me now from

137  
00:06:50,389 --> 00:06:54,348  
the beautiful city of Aubree in southern

138  
00:06:52,759 --> 00:06:57,800  
New South Wales right on the border of

139  
00:06:54,348 --> 00:07:00,558  
Victoria it's dr. Chrissy Wilson hello

140  
00:06:57,800 --> 00:07:02,509  
Chrissy hello Richard hello listeners

141  
00:07:00,559 --> 00:07:04,249  
well it's great to catch up with you

142  
00:07:02,509 --> 00:07:06,080  
again Chrissy in fact I had a wonderful

143

00:07:04,249 --> 00:07:10,129  
time about a year ago when i went down

144  
00:07:06,079 --> 00:07:12,139  
to albury there to help you launch soap

145  
00:07:10,129 --> 00:07:14,689  
now can you remind our listeners all

146  
00:07:12,139 --> 00:07:17,449  
about soap well I can't believe it's

147  
00:07:14,689 --> 00:07:19,580  
actually been a whole year since since

148  
00:07:17,449 --> 00:07:22,338  
we launched soap but yes to remind

149  
00:07:19,579 --> 00:07:25,399  
listeners um so stands for the science

150  
00:07:22,338 --> 00:07:27,620  
of animalistic phenomena and as you know

151  
00:07:25,399 --> 00:07:30,228  
Richard since I arrived in Australia

152  
00:07:27,620 --> 00:07:32,120  
about five years ago that I wanted to

153  
00:07:30,228 --> 00:07:35,778  
set up my own unit because although

154  
00:07:32,120 --> 00:07:38,088  
although skepticism is is is alive and

155  
00:07:35,778 --> 00:07:40,519  
very very well and very very active in

156  
00:07:38,088 --> 00:07:44,689  
Australia we don't have in Australia a

157  
00:07:40,519 --> 00:07:47,028

sort of academic base for investigations

158

00:07:44,689 --> 00:07:49,399

into the paranormal and the psychology

159

00:07:47,028 --> 00:07:51,468

of belief so that's and we do in Europe

160

00:07:49,399 --> 00:07:53,899

pc and in america but we don't really

161

00:07:51,468 --> 00:07:58,218

have that here in australia so when i

162

00:07:53,899 --> 00:07:59,838

arrived um it's been my my wish to do

163

00:07:58,218 --> 00:08:01,879

that my vision if you like to get that

164

00:07:59,838 --> 00:08:03,649

settled and now that i'm settled at

165

00:08:01,879 --> 00:08:05,870

charles sturt university here in aubrey

166

00:08:03,649 --> 00:08:07,819

they've been really supportive and so

167

00:08:05,870 --> 00:08:09,559

they've allowed me to set up the the

168

00:08:07,819 --> 00:08:12,199

unit here it's part of the school of

169

00:08:09,559 --> 00:08:14,360

psychology it's called soap science of a

170

00:08:12,199 --> 00:08:18,199

normal istic phenomena and and it's

171

00:08:14,360 --> 00:08:21,348

basically investigating the science of

172  
00:08:18,199 --> 00:08:24,050  
belief why do people believe in weird

173  
00:08:21,348 --> 00:08:27,019  
and wonderful things not only in their

174  
00:08:24,050 --> 00:08:30,680  
beliefs but in their experiences and I

175  
00:08:27,019 --> 00:08:33,049  
say this a lot that I'm I'm not a

176  
00:08:30,680 --> 00:08:34,969  
parapsychologist as you know I am NOT

177  
00:08:33,049 --> 00:08:37,458  
trying to prove where the psychic

178  
00:08:34,969 --> 00:08:40,310  
phenomena is real or is not real what

179  
00:08:37,458 --> 00:08:43,129  
I'm interested in is why people believe

180  
00:08:40,309 --> 00:08:46,188  
in these things where do their beliefs

181  
00:08:43,129 --> 00:08:48,600  
begin how are they maintained what types

182  
00:08:46,188 --> 00:08:50,698  
of experiences that people have and

183  
00:08:48,600 --> 00:08:52,440  
is it possible that there are some of us

184  
00:08:50,698 --> 00:08:54,629  
that are more susceptible to believing

185  
00:08:52,440 --> 00:08:57,120  
in these types of extraordinary

186  
00:08:54,629 --> 00:09:01,350  
phenomena so that's that was my aim and

187  
00:08:57,120 --> 00:09:03,720  
a year ago we had the launch as you know

188  
00:09:01,350 --> 00:09:05,129  
and you came down and gave a wonderful

189  
00:09:03,720 --> 00:09:08,269  
demonstration and we had a little talk

190  
00:09:05,129 --> 00:09:12,539  
and we had a little debate amongst the

191  
00:09:08,269 --> 00:09:14,970  
audience and the main purpose of that

192  
00:09:12,539 --> 00:09:17,399  
launch was one to have this kind of

193  
00:09:14,970 --> 00:09:19,589  
symbolic launch which was was important

194  
00:09:17,399 --> 00:09:22,019  
and also to get the media interest but

195  
00:09:19,589 --> 00:09:25,259  
it was also to recruit participants

196  
00:09:22,019 --> 00:09:28,230  
because i want the local rural community

197  
00:09:25,259 --> 00:09:30,419  
to take part in the studies believers

198  
00:09:28,230 --> 00:09:32,159  
and non-believers and all points in

199  
00:09:30,419 --> 00:09:33,208  
between so because that's what we're

200

00:09:32,159 --> 00:09:35,219  
looking for we're looking for

201  
00:09:33,208 --> 00:09:36,809  
similarities and differences so i won't

202  
00:09:35,220 --> 00:09:39,420  
believers non-believers and everybody in

203  
00:09:36,809 --> 00:09:41,849  
between so from that point of view it

204  
00:09:39,419 --> 00:09:44,009  
was very successful yeah i've now got a

205  
00:09:41,850 --> 00:09:48,240  
database of participants probably about

206  
00:09:44,009 --> 00:09:50,970  
90 people from lot different areas not

207  
00:09:48,240 --> 00:09:52,919  
not just in in the albury New South

208  
00:09:50,970 --> 00:09:54,629  
Wales region but across Australia are

209  
00:09:52,919 --> 00:09:56,698  
actually people that have heard about so

210  
00:09:54,629 --> 00:09:59,669  
by the through Twitter or three yourself

211  
00:09:56,698 --> 00:10:02,879  
or through websites etc so in its

212  
00:09:59,669 --> 00:10:05,129  
growing it takes a while like everything

213  
00:10:02,879 --> 00:10:06,750  
else you know it takes a while lots of

214  
00:10:05,129 --> 00:10:09,328

hard work but but we're definitely

215

00:10:06,750 --> 00:10:12,269  
getting there so it's very exciting it

216

00:10:09,328 --> 00:10:14,068  
is and you were our guest on the

217

00:10:12,269 --> 00:10:15,389  
skeptics Island Oh only a couple of

218

00:10:14,068 --> 00:10:17,789  
weeks ago may three or four weeks ago

219

00:10:15,389 --> 00:10:20,188  
when you were chatting to Maynard about

220

00:10:17,789 --> 00:10:21,838  
some of the things you get up to and I

221

00:10:20,188 --> 00:10:24,149  
particularly will remember that you went

222

00:10:21,839 --> 00:10:26,850  
to see a certain shall we say a certain

223

00:10:24,149 --> 00:10:30,059  
psychic who who you are less than

224

00:10:26,850 --> 00:10:34,230  
impressed with and stood up and made

225

00:10:30,059 --> 00:10:36,899  
your views known yeah you could say that

226

00:10:34,230 --> 00:10:40,470  
um don't really want to reveal the chaps

227

00:10:36,899 --> 00:10:43,769  
net earth person's name but let's just

228

00:10:40,470 --> 00:10:46,528  
say that he wasn't exactly Australia's

229  
00:10:43,769 --> 00:10:49,740  
number one I'd say it was more like

230  
00:10:46,528 --> 00:10:51,509  
Australia's biggest number two Oh Deary

231  
00:10:49,740 --> 00:10:53,698  
me I wouldn't I wonder what that could

232  
00:10:51,509 --> 00:10:55,289  
mean oh well you know when you're number

233  
00:10:53,698 --> 00:10:58,198  
two you always try harder to be number

234  
00:10:55,289 --> 00:11:00,360  
one don't you that's the well he was

235  
00:10:58,198 --> 00:11:02,729  
certainly trying i'll give you the

236  
00:11:00,360 --> 00:11:04,230  
and the point the point i'll get to is

237  
00:11:02,730 --> 00:11:06,060  
that no matter who it is and of course

238  
00:11:04,230 --> 00:11:08,700  
I've seen many of these people over the

239  
00:11:06,059 --> 00:11:10,889  
years of various stage shows and one of

240  
00:11:08,700 --> 00:11:12,690  
my bugbears one of the things I think is

241  
00:11:10,889 --> 00:11:16,620  
a great pity is often I'll go and see

242  
00:11:12,690 --> 00:11:18,779  
these performers at what we call our RSL

243  
00:11:16,620 --> 00:11:21,360  
club which is a club devoted to the

244  
00:11:18,778 --> 00:11:25,200  
memory of fallen soldiers and returned

245  
00:11:21,360 --> 00:11:26,850  
soldiers you know yes particularly after

246  
00:11:25,200 --> 00:11:30,390  
World War two but every war since then

247  
00:11:26,850 --> 00:11:33,089  
and to have these performers go to these

248  
00:11:30,389 --> 00:11:35,519  
clubs which are dedicated to the solemn

249  
00:11:33,089 --> 00:11:37,950  
memory of fallen soldiers and then to

250  
00:11:35,519 --> 00:11:41,519  
pretend to chat to dead people I always

251  
00:11:37,950 --> 00:11:43,050  
thought was really really really bad

252  
00:11:41,519 --> 00:11:44,490  
taste so if anybody's listening out

253  
00:11:43,049 --> 00:11:48,179  
there involved with the RSL club

254  
00:11:44,490 --> 00:11:50,629  
movement that you know I'm not very

255  
00:11:48,179 --> 00:11:54,719  
impressed with that at all no it's um

256  
00:11:50,629 --> 00:11:57,809  
you know I i try to be an open minded

257

00:11:54,720 --> 00:12:01,050  
objective social scientist in all that i

258  
00:11:57,809 --> 00:12:02,309  
do i tried to keep emotion out of it

259  
00:12:01,049 --> 00:12:03,990  
because the minute you start to get

260  
00:12:02,309 --> 00:12:07,289  
emotional about things then you lose

261  
00:12:03,990 --> 00:12:10,110  
your sense of a probe of proportion you

262  
00:12:07,289 --> 00:12:11,338  
you you become bias in your view and as

263  
00:12:10,110 --> 00:12:13,528  
you know in science we have to be

264  
00:12:11,339 --> 00:12:17,430  
objective but this is the one thing that

265  
00:12:13,528 --> 00:12:19,198  
that really gets me very very cross to

266  
00:12:17,429 --> 00:12:23,039  
sit in the audience and to watch this

267  
00:12:19,198 --> 00:12:25,229  
clown on the stage spouting complete

268  
00:12:23,039 --> 00:12:27,838  
nonsense while there's a poor woman in

269  
00:12:25,230 --> 00:12:30,570  
the audience crying sobbing a little

270  
00:12:27,839 --> 00:12:33,959  
heart out because she believes that this

271  
00:12:30,570 --> 00:12:36,540

idiot is talking to the spirit of her

272

00:12:33,958 --> 00:12:39,629  
dead husband or a dead child it's it's

273

00:12:36,539 --> 00:12:43,009  
it's just it's so objectionable to watch

274

00:12:39,629 --> 00:12:45,659  
and I find it very very distressing and

275

00:12:43,009 --> 00:12:49,129  
yet when I went to see the certain

276

00:12:45,659 --> 00:12:51,509  
person who came to the Aubrey

277

00:12:49,129 --> 00:12:54,389  
entertainment center yes we do have an

278

00:12:51,509 --> 00:12:58,259  
entertainment center that's not on thick

279

00:12:54,389 --> 00:13:00,059  
thick term and you know I was I was

280

00:12:58,259 --> 00:13:03,208  
looking forward to it although I

281

00:13:00,059 --> 00:13:05,458  
couldn't wait to watch and to see what

282

00:13:03,208 --> 00:13:08,879  
what he got up to I knew it was going to

283

00:13:05,458 --> 00:13:12,149  
be I knew ya how more when you and I go

284

00:13:08,879 --> 00:13:14,338  
and see something like this not to

285

00:13:12,149 --> 00:13:16,589  
demean the average skeptic out there but

286  
00:13:14,339 --> 00:13:19,439  
think that I'm right in saying that you

287  
00:13:16,589 --> 00:13:22,410  
and I and some other skeptics I've had a

288  
00:13:19,438 --> 00:13:25,110  
particular backlog of experience in

289  
00:13:22,409 --> 00:13:28,980  
watching these people so we're able to

290  
00:13:25,110 --> 00:13:30,870  
with our experience know and recognize

291  
00:13:28,980 --> 00:13:33,360  
and see certain techniques and

292  
00:13:30,870 --> 00:13:35,818  
psychological tricks being used oh yeah

293  
00:13:33,360 --> 00:13:39,409  
and this guy I'll give him his due and

294  
00:13:35,818 --> 00:13:42,509  
he's very clever he knows exactly how to

295  
00:13:39,409 --> 00:13:45,360  
manipulate the audience he has all the

296  
00:13:42,509 --> 00:13:47,459  
tricks he doesn't cold read Richard he

297  
00:13:45,360 --> 00:13:50,850  
doesn't need to cold read he just stands

298  
00:13:47,458 --> 00:13:52,739  
there and and make suggestions yeah and

299  
00:13:50,850 --> 00:13:55,558  
then of course the audience just give

300  
00:13:52,740 --> 00:13:58,230  
him as always just give him all the

301  
00:13:55,558 --> 00:14:00,179  
material yeah he doesn't actually cold

302  
00:13:58,230 --> 00:14:02,999  
read he's not he's not even good enough

303  
00:14:00,179 --> 00:14:05,669  
to do that and then they don't have to

304  
00:14:02,999 --> 00:14:08,249  
be today no no because the audience are

305  
00:14:05,669 --> 00:14:11,549  
primed the pre-sold yeah yeah this

306  
00:14:08,249 --> 00:14:14,610  
character what he does also is he he has

307  
00:14:11,549 --> 00:14:16,528  
a VIP session that's what he calls on

308  
00:14:14,610 --> 00:14:19,740  
his website come along and meet me in

309  
00:14:16,528 --> 00:14:22,769  
the VIP session before the actual show

310  
00:14:19,740 --> 00:14:25,110  
so he gets a bunts a bunch of his fans

311  
00:14:22,769 --> 00:14:27,808  
they all trot along and and apparently

312  
00:14:25,110 --> 00:14:30,959  
there was about 25 of them but this VIP

313  
00:14:27,808 --> 00:14:33,240  
session they sit there and then he he

314

00:14:30,958 --> 00:14:34,979  
chats to them you know and he disclosed

315  
00:14:33,240 --> 00:14:36,720  
his personal information about himself

316  
00:14:34,980 --> 00:14:38,490  
so well you know this is what happened

317  
00:14:36,720 --> 00:14:39,959  
to me this is how i became a psychic

318  
00:14:38,490 --> 00:14:42,839  
this is how I discovered you know that I

319  
00:14:39,958 --> 00:14:46,739  
had this gift and and he just chats to

320  
00:14:42,839 --> 00:14:48,600  
the audience and naturally these the

321  
00:14:46,740 --> 00:14:50,759  
people open up and they give him all

322  
00:14:48,600 --> 00:14:54,689  
sorts of information about the area

323  
00:14:50,759 --> 00:14:56,879  
about them personally so he's got all

324  
00:14:54,688 --> 00:14:59,639  
kinds of material there so during the

325  
00:14:56,879 --> 00:15:02,188  
show if it all goes a bit quiet if it

326  
00:14:59,639 --> 00:15:05,459  
doesn't go to plan he's got this wealth

327  
00:15:02,188 --> 00:15:08,909  
of material that he's collected just an

328  
00:15:05,458 --> 00:15:11,758

hour before that he he can use oh well

329

00:15:08,909 --> 00:15:13,620

I'm getting getting a suicide you know

330

00:15:11,759 --> 00:15:16,079

like look you know this is rural New

331

00:15:13,620 --> 00:15:19,318

South Wales unfortunately suicide is a

332

00:15:16,078 --> 00:15:21,659

is a an issue here so that that was the

333

00:15:19,318 --> 00:15:23,548

very first thing he did I think what I

334

00:15:21,659 --> 00:15:25,980

think I'd twittered it actually I bet he

335

00:15:23,548 --> 00:15:27,649

does a suicide in a man in uniform yeah

336

00:15:25,980 --> 00:15:30,139

star for now the very

337

00:15:27,649 --> 00:15:37,610

first one he did was a suicide dear

338

00:15:30,139 --> 00:15:39,490

there was steam well you got to extend

339

00:15:37,610 --> 00:15:42,558

that you actually stood up and

340

00:15:39,490 --> 00:15:45,799

challenged him it's something I i I've

341

00:15:42,558 --> 00:15:49,730

been tempted to do quite a few times the

342

00:15:45,799 --> 00:15:51,289

the worst time was when and I've written

343  
00:15:49,730 --> 00:15:53,749  
about this many years ago it was a

344  
00:15:51,289 --> 00:15:56,328  
psychic by the name of the amazing

345  
00:15:53,749 --> 00:15:58,339  
valdir suggested to the audience that

346  
00:15:56,328 --> 00:16:01,638  
the dead from 9-11 were running around

347  
00:15:58,339 --> 00:16:03,379  
the auditorium it's the one time I had I

348  
00:16:01,639 --> 00:16:05,558  
gripped the handles of my chair to stop

349  
00:16:03,379 --> 00:16:08,209  
myself standing up because I wanted to

350  
00:16:05,558 --> 00:16:10,669  
do a whole routine then i could write

351  
00:16:08,208 --> 00:16:14,028  
about it which i did but one day you

352  
00:16:10,669 --> 00:16:15,889  
know one day I might say the hell with

353  
00:16:14,028 --> 00:16:19,999  
it stand up and Blass one of these

354  
00:16:15,889 --> 00:16:21,850  
people but yeah do any good very good it

355  
00:16:19,999 --> 00:16:25,249  
doesn't is it and someone said to me

356  
00:16:21,850 --> 00:16:28,069  
previously if you challenge these people

357  
00:16:25,249 --> 00:16:29,959  
in front of their followers all you're

358  
00:16:28,068 --> 00:16:31,909  
doing is you're making a martyr out of

359  
00:16:29,958 --> 00:16:33,828  
them and this is exactly what happened

360  
00:16:31,909 --> 00:16:35,870  
everybody in your just screaming at me

361  
00:16:33,828 --> 00:16:39,019  
I'll sit down why did you come get lost

362  
00:16:35,870 --> 00:16:40,879  
get out of here trash you know and I

363  
00:16:39,019 --> 00:16:42,919  
turned to them and I said what I don't

364  
00:16:40,879 --> 00:16:45,079  
you want to know don't you want to know

365  
00:16:42,919 --> 00:16:47,628  
if you're being formed don't you want to

366  
00:16:45,078 --> 00:16:50,599  
know if you're just having the Mickey

367  
00:16:47,629 --> 00:16:56,920  
taken out of you yeah and for a split

368  
00:16:50,600 --> 00:17:00,230  
second you know they seem to think no no

369  
00:16:56,919 --> 00:17:01,878  
but at the end of it several people came

370  
00:17:00,230 --> 00:17:03,499  
up to me afterwards and I thought oh

371

00:17:01,879 --> 00:17:05,449  
here we go I'm going to get thumped at

372  
00:17:03,499 --> 00:17:07,490  
the very least but they just asked me

373  
00:17:05,449 --> 00:17:10,579  
questions I wanted to know where why are

374  
00:17:07,490 --> 00:17:12,949  
you so sure that this is not real you

375  
00:17:10,578 --> 00:17:15,769  
know said there was seeds of doubt in

376  
00:17:12,949 --> 00:17:18,649  
some of their minds for sure but like I

377  
00:17:15,769 --> 00:17:21,859  
said for the majority of the audience um

378  
00:17:18,648 --> 00:17:23,928  
I was just making him into a martyr and

379  
00:17:21,859 --> 00:17:26,359  
then of course he he stood there and he

380  
00:17:23,929 --> 00:17:28,519  
said oh don't worry ladies gentlemen you

381  
00:17:26,359 --> 00:17:30,319  
know I'm used to this kind of criticism

382  
00:17:28,519 --> 00:17:33,470  
you know it's just it just comes with

383  
00:17:30,319 --> 00:17:35,028  
the territory i'm afraid you know really

384  
00:17:33,470 --> 00:17:36,710  
i find that i find that hard to believe

385  
00:17:35,028 --> 00:17:40,308

i think he would very rarely get any

386

00:17:36,710 --> 00:17:40,808  
criticism at all uh well uh eighteen

387

00:17:40,308 --> 00:17:44,259  
years

388

00:17:40,808 --> 00:17:47,168  
he knew perfectly well that there was

389

00:17:44,259 --> 00:17:50,048  
nothing that I could say that would turn

390

00:17:47,169 --> 00:17:52,809  
the oil against him and and his his

391

00:17:50,048 --> 00:17:55,298  
management were very very switched on as

392

00:17:52,808 --> 00:17:57,339  
well they knew exactly how to handle the

393

00:17:55,298 --> 00:17:59,740  
situation they were very switched on a

394

00:17:57,339 --> 00:18:02,048  
name I've looked them up on the internet

395

00:17:59,740 --> 00:18:05,138  
and they they manage a lot of psychics

396

00:18:02,048 --> 00:18:06,999  
alleged psychic yeah interesting well

397

00:18:05,138 --> 00:18:09,579  
this is let's get back to soap because

398

00:18:06,999 --> 00:18:13,179  
this is all ties in and the reason you

399

00:18:09,579 --> 00:18:15,490  
go along and see is to observe the the

400  
00:18:13,179 --> 00:18:18,879  
the performer in action that shall we

401  
00:18:15,490 --> 00:18:20,710  
say but also the experience you get from

402  
00:18:18,878 --> 00:18:22,480  
your interaction of the audience's I

403  
00:18:20,710 --> 00:18:24,850  
think would be invaluable research for

404  
00:18:22,480 --> 00:18:27,548  
your soap activities yeah absolutely i

405  
00:18:24,849 --> 00:18:30,339  
mean i am oh yes i'm a skeptic but i am

406  
00:18:27,548 --> 00:18:33,519  
a psychologist so the whole psychology

407  
00:18:30,339 --> 00:18:37,868  
of the situation is is fascinating for

408  
00:18:33,519 --> 00:18:39,249  
me you know how an it the more i look at

409  
00:18:37,868 --> 00:18:40,628  
this and the more i study and

410  
00:18:39,249 --> 00:18:43,028  
investigate these things the more i

411  
00:18:40,628 --> 00:18:47,109  
realize that it has nothing to do with

412  
00:18:43,028 --> 00:18:51,638  
age gender social economic background

413  
00:18:47,109 --> 00:18:54,998  
education intelligence you know so many

414  
00:18:51,638 --> 00:18:58,839  
of us believe in something which is

415  
00:18:54,999 --> 00:19:03,879  
probably not real you know it's it we're

416  
00:18:58,839 --> 00:19:06,999  
all susceptible to being influenced by

417  
00:19:03,878 --> 00:19:10,628  
our own prejudices if you like we're

418  
00:19:06,999 --> 00:19:13,990  
also susceptible to these things so yet

419  
00:19:10,628 --> 00:19:15,849  
that certainly it does fuel my research

420  
00:19:13,990 --> 00:19:17,769  
with without the shadow of a doubt you

421  
00:19:15,849 --> 00:19:20,618  
know what what psychological processes

422  
00:19:17,769 --> 00:19:22,960  
are going on there and what draws

423  
00:19:20,618 --> 00:19:24,490  
certain individuals to these types of

424  
00:19:22,960 --> 00:19:27,340  
beliefs and how are these beliefs

425  
00:19:24,490 --> 00:19:30,220  
maintained and I'm not a clinical

426  
00:19:27,339 --> 00:19:33,278  
psychologist and that's that's a

427  
00:19:30,220 --> 00:19:36,100  
separate field so I don't specifically

428

00:19:33,278 --> 00:19:37,599  
look at psychopathology and really I

429  
00:19:36,099 --> 00:19:40,028  
mean that's not what we're talking about

430  
00:19:37,599 --> 00:19:41,459  
here anyway you know and people that

431  
00:19:40,028 --> 00:19:43,240  
believe that are not necessarily

432  
00:19:41,460 --> 00:19:44,649  
suffering from some kind of mental

433  
00:19:43,240 --> 00:19:46,480  
disorder that's what I'm trying to say

434  
00:19:44,648 --> 00:19:48,788  
that you know we're all susceptible to

435  
00:19:46,480 --> 00:19:52,419  
these things and to some extent we all

436  
00:19:48,788 --> 00:19:54,099  
believe in something so yeah so most of

437  
00:19:52,419 --> 00:19:54,490  
the studies that were coming out at the

438  
00:19:54,099 --> 00:19:58,058  
moment

439  
00:19:54,490 --> 00:20:00,940  
and are mostly questionnaire studies so

440  
00:19:58,058 --> 00:20:03,399  
we send out lots of measures of sort of

441  
00:20:00,940 --> 00:20:06,429  
personality measures belief measures and

442  
00:20:03,400 --> 00:20:08,650

we're basically measuring similarities

443

00:20:06,429 --> 00:20:10,769

and differences so for example the first

444

00:20:08,650 --> 00:20:14,470

one that I did was looking at well-being

445

00:20:10,769 --> 00:20:16,929

because I'm often asked well is it a

446

00:20:14,470 --> 00:20:18,250

good thing to have beliefs you know does

447

00:20:16,929 --> 00:20:20,650

it actually make people feel better

448

00:20:18,250 --> 00:20:23,529

about themselves and help them cope with

449

00:20:20,650 --> 00:20:25,269

with you know the the difficulty of

450

00:20:23,529 --> 00:20:27,879

modern life and to some extent I think

451

00:20:25,269 --> 00:20:30,339

it does and so I looked at subjective

452

00:20:27,880 --> 00:20:32,140

well-being and happiness scales and

453

00:20:30,339 --> 00:20:33,789

belief to see if there was any kind of

454

00:20:32,140 --> 00:20:37,590

correlation there and it turned out yes

455

00:20:33,789 --> 00:20:39,849

yes believers do appear to be happier

456

00:20:37,589 --> 00:20:42,279

getting back to what you're you're

457  
00:20:39,849 --> 00:20:44,049  
looking into why why is just taking off

458  
00:20:42,279 --> 00:20:47,259  
in certain cultures and certain people

459  
00:20:44,049 --> 00:20:48,909  
why do people think like this I I was

460  
00:20:47,259 --> 00:20:50,679  
just thinking also before wouldn't it be

461  
00:20:48,910 --> 00:20:52,269  
great and we haven't done it yet that

462  
00:20:50,679 --> 00:20:54,850  
you and I get together one day and go

463  
00:20:52,269 --> 00:20:56,889  
and see one of these performances I know

464  
00:20:54,849 --> 00:20:59,500  
how could you imagine that would be so

465  
00:20:56,890 --> 00:21:02,230  
much fun well I'd like to have I'd like

466  
00:20:59,500 --> 00:21:04,929  
to have the whole sort of second row of

467  
00:21:02,230 --> 00:21:07,839  
skipped just skeptics the whole robes

468  
00:21:04,929 --> 00:21:12,580  
gets old sattler arms folded hands full

469  
00:21:07,839 --> 00:21:14,259  
bring it on that's right for the next

470  
00:21:12,579 --> 00:21:17,169  
time the next time that certain person

471  
00:21:14,259 --> 00:21:20,140  
that I was talking about we comes on

472  
00:21:17,170 --> 00:21:23,470  
tour around New South Wales and Victoria

473  
00:21:20,140 --> 00:21:25,030  
then I'm determined to make sure that

474  
00:21:23,470 --> 00:21:26,640  
with you know there's a whole bunch of

475  
00:21:25,029 --> 00:21:29,529  
skeptics down there in the front row

476  
00:21:26,640 --> 00:21:31,360  
staring out and given a heart I do it

477  
00:21:29,529 --> 00:21:33,879  
I'll turn up and I'll put on my skeptic

478  
00:21:31,359 --> 00:21:36,009  
glasses and I'll cross my legs and fold

479  
00:21:33,880 --> 00:21:38,950  
my arms and get my notebook out that a

480  
00:21:36,009 --> 00:21:40,329  
little frightening yeah well that's what

481  
00:21:38,950 --> 00:21:43,690  
I did with this character i SAT there

482  
00:21:40,329 --> 00:21:45,399  
front row with a notepad huffing and

483  
00:21:43,690 --> 00:21:50,640  
puffing all the way through so right

484  
00:21:45,400 --> 00:21:54,100  
from the start he knew Bobby disgruntled

485

00:21:50,640 --> 00:21:55,570  
little little participant that there was

486  
00:21:54,099 --> 00:21:58,119  
something wrong and they actually came

487  
00:21:55,569 --> 00:21:59,740  
to me with the microphone you know he he

488  
00:21:58,119 --> 00:22:01,058  
at the end of the show he said right

489  
00:21:59,740 --> 00:22:03,429  
well this is a question answer session

490  
00:22:01,058 --> 00:22:05,410  
you know that let's open up to the audio

491  
00:22:03,429 --> 00:22:07,450  
so straight away my arm went straight up

492  
00:22:05,410 --> 00:22:09,370  
and they came straight to me

493  
00:22:07,450 --> 00:22:12,038  
add to them so they had noticed already

494  
00:22:09,369 --> 00:22:14,879  
that right that little weird little

495  
00:22:12,038 --> 00:22:18,548  
woman in the front what's up with her

496  
00:22:14,880 --> 00:22:20,889  
what what what fun what fun now Chrissy

497  
00:22:18,548 --> 00:22:25,629  
how do I know listeners find out more

498  
00:22:20,888 --> 00:22:28,058  
and aid in your research at soap yes or

499  
00:22:25,630 --> 00:22:30,159

I'm rambling on as I always do and

500

00:22:28,058 --> 00:22:33,278

getting off the point the point is soap

501

00:22:30,159 --> 00:22:35,740

yes soap soap soap um we now have a

502

00:22:33,278 --> 00:22:40,869

wonderful website I say one foot is in

503

00:22:35,740 --> 00:22:42,669

his early stages yeah um it's it's you

504

00:22:40,869 --> 00:22:44,648

know we're trying to improve it and

505

00:22:42,669 --> 00:22:46,929

finally got it up and running but but

506

00:22:44,648 --> 00:22:54,959

it's in its early stages so it will get

507

00:22:46,929 --> 00:22:58,240

better and better the website is www org

508

00:22:54,960 --> 00:23:00,870

dot a you oh that's easy to remember

509

00:22:58,240 --> 00:23:03,089

yeah well if you just Google soap

510

00:23:00,869 --> 00:23:05,648

unfortunately you'll get the Society of

511

00:23:03,089 --> 00:23:08,439

obstetrics and various other things so

512

00:23:05,648 --> 00:23:10,388

if you keep if you keep let soaked org

513

00:23:08,440 --> 00:23:13,690

you'll get science of animalistic

514  
00:23:10,388 --> 00:23:15,819  
phenomena and yet so you can log on to

515  
00:23:13,690 --> 00:23:17,769  
the website now I've got big plans for

516  
00:23:15,819 --> 00:23:21,308  
the web's website because one of the

517  
00:23:17,769 --> 00:23:23,138  
main reasons for doing it is less to

518  
00:23:21,308 --> 00:23:25,928  
carry out research but I also want it to

519  
00:23:23,138 --> 00:23:30,369  
be an educational tool so one people to

520  
00:23:25,929 --> 00:23:32,470  
be able to log on and to be able to link

521  
00:23:30,369 --> 00:23:35,459  
into lectures so I'm going to do a

522  
00:23:32,470 --> 00:23:38,679  
series of lectures on various

523  
00:23:35,460 --> 00:23:39,429  
anomalistic psychology issues so some of

524  
00:23:38,679 --> 00:23:41,110  
the things we've been talking about

525  
00:23:39,429 --> 00:23:43,990  
today but also about the history of

526  
00:23:41,109 --> 00:23:47,619  
parapsychology and all kinds of things

527  
00:23:43,990 --> 00:23:51,370  
relating to the science of belief so I'm

528  
00:23:47,619 --> 00:23:54,788  
going to record lectures and load them

529  
00:23:51,369 --> 00:23:57,699  
onto the website so people can tune in

530  
00:23:54,788 --> 00:23:59,048  
and listen to them we've also got a

531  
00:23:57,700 --> 00:24:02,319  
couple of videos up there there's a

532  
00:23:59,048 --> 00:24:03,579  
welcome video from the up there at the

533  
00:24:02,319 --> 00:24:06,759  
moment and a couple of other little

534  
00:24:03,579 --> 00:24:08,859  
things and we've got a video of the soap

535  
00:24:06,759 --> 00:24:10,629  
launch now it's an edited version it's

536  
00:24:08,859 --> 00:24:13,209  
only about 10 minutes or so just to give

537  
00:24:10,630 --> 00:24:16,840  
people an idea of what what it's all

538  
00:24:13,210 --> 00:24:19,058  
about and there's a link to research

539  
00:24:16,839 --> 00:24:21,109  
participation so if any of our gorgeous

540  
00:24:19,058 --> 00:24:24,470  
listeners would like to take part in

541  
00:24:21,109 --> 00:24:26,599  
any of the studies we've got one left up

542

00:24:24,470 --> 00:24:27,710  
there at the moment and the next few

543  
00:24:26,599 --> 00:24:29,750  
weeks I'm going to load up another

544  
00:24:27,710 --> 00:24:31,308  
couple if anybody wants to take part all

545  
00:24:29,750 --> 00:24:34,339  
they have to do log on to the website

546  
00:24:31,308 --> 00:24:36,798  
click on research participation and that

547  
00:24:34,339 --> 00:24:38,720  
will take them straight to whatever

548  
00:24:36,798 --> 00:24:40,308  
studies we've got up on their the moment

549  
00:24:38,720 --> 00:24:42,230  
we've just got the one but in a couple

550  
00:24:40,308 --> 00:24:45,079  
of weeks time there'll be two or three

551  
00:24:42,230 --> 00:24:47,720  
more and they can just click on the link

552  
00:24:45,079 --> 00:24:50,419  
and then do the study and it does they

553  
00:24:47,720 --> 00:24:52,850  
don't have to be skeptics it can be

554  
00:24:50,420 --> 00:24:55,130  
anybody you know I don't just want

555  
00:24:52,849 --> 00:24:57,609  
skeptics to take part I want believers

556  
00:24:55,130 --> 00:24:59,809

skeptics and all points in between so um

557

00:24:57,609 --> 00:25:02,779

you know anybody who wants to take part

558

00:24:59,808 --> 00:25:06,349

in the studies there's also an email

559

00:25:02,779 --> 00:25:13,399

account so if anybody wants to become a

560

00:25:06,349 --> 00:25:17,918

soap sud so the soap suds or soap studs

561

00:25:13,400 --> 00:25:21,290

as I keep cause of studs all right slip

562

00:25:17,919 --> 00:25:23,720

if anybody was become so absurd then

563

00:25:21,289 --> 00:25:25,940

they just send me their email address

564

00:25:23,720 --> 00:25:28,160

and then I'll put them onto the mailing

565

00:25:25,940 --> 00:25:30,679

list so whenever we have any sort of new

566

00:25:28,160 --> 00:25:32,779

lecture or a new event coming up or a

567

00:25:30,679 --> 00:25:36,019

new study then I can just send them the

568

00:25:32,779 --> 00:25:39,139

details excellent news Chrissy now it's

569

00:25:36,019 --> 00:25:41,058

really great and I should come and visit

570

00:25:39,140 --> 00:25:42,830

you in fact why don't I do that because

571  
00:25:41,058 --> 00:25:45,859  
I am coming to your neck of the woods

572  
00:25:42,829 --> 00:25:47,839  
you are put to take part in the mid amid

573  
00:25:45,859 --> 00:25:50,750  
awarded dividing challenge on the tenth

574  
00:25:47,839 --> 00:25:53,240  
of March and we can catch up then and

575  
00:25:50,750 --> 00:25:56,058  
talk about more so be things well let's

576  
00:25:53,240 --> 00:25:57,950  
do yeah let's do a little podcast ething

577  
00:25:56,058 --> 00:26:00,548  
for soap maybe I think that's a great

578  
00:25:57,950 --> 00:26:02,929  
idea and I'll stick that on there on the

579  
00:26:00,548 --> 00:26:06,139  
website and also i should say you know

580  
00:26:02,929 --> 00:26:09,110  
if anybody's got any suggestions um

581  
00:26:06,140 --> 00:26:12,049  
about things they'd like to know about

582  
00:26:09,109 --> 00:26:14,439  
belief in the paranormal you know any

583  
00:26:12,048 --> 00:26:17,450  
kind of ideas for studies i have always

584  
00:26:14,440 --> 00:26:19,279  
open to ideas about the kinds of

585  
00:26:17,450 --> 00:26:21,740  
directions we can go in and types of

586  
00:26:19,279 --> 00:26:23,359  
studies that i can carry out I've got

587  
00:26:21,740 --> 00:26:26,660  
quite there's quite a few things planned

588  
00:26:23,359 --> 00:26:29,719  
for this year looking at cognitive

589  
00:26:26,660 --> 00:26:31,190  
biases biological biases and various

590  
00:26:29,720 --> 00:26:33,740  
other things but I'm always open to

591  
00:26:31,190 --> 00:26:35,450  
suggestion so if any of the listeners

592  
00:26:33,740 --> 00:26:40,640  
but would like to suggest something then

593  
00:26:35,450 --> 00:26:44,500  
just email me at k wilson at CSU dot ed

594  
00:26:40,640 --> 00:26:47,270  
u ju and always happy to get suggestions

595  
00:26:44,500 --> 00:26:51,980  
excellent chrissy wilson from soap and

596  
00:26:47,269 --> 00:26:53,389  
ww so GU thank you once again for being

597  
00:26:51,980 --> 00:26:55,460  
on the skeptic zone you're actually

598  
00:26:53,390 --> 00:26:56,830  
technically our roving reporter so we'll

599

00:26:55,460 --> 00:27:00,049  
have to get a few reports out of it

600  
00:26:56,829 --> 00:27:02,928  
definitely definitely oh otay my best

601  
00:27:00,049 --> 00:27:04,519  
and i'm sure we'll have some fun when we

602  
00:27:02,929 --> 00:27:06,950  
catch up really soon chrissy Wilson

603  
00:27:04,519 --> 00:27:09,579  
thanks very much ok cheers richard taken

604  
00:27:06,950 --> 00:27:09,580  
mark pincus

605  
00:27:27,710 --> 00:27:32,360  
hi I'm on it why I exist in OB tips

606  
00:27:30,859 --> 00:27:34,189  
addai some logic lifted off the skeptic

607  
00:27:32,359 --> 00:27:36,648  
zone um skeptic a mirror in Nadia the

608  
00:27:34,190 --> 00:27:38,538  
fins not a blog gear up a BF a podcast

609  
00:27:36,648 --> 00:27:40,849  
of reading escape system is leaked on

610  
00:27:38,538 --> 00:27:42,408  
this drama central de i'll skip sister

611  
00:27:40,849 --> 00:27:44,480  
demo or higher publicize the deeps

612  
00:27:42,409 --> 00:27:46,429  
corner Chiclets and calendar / activator

613  
00:27:44,480 --> 00:27:47,990

or language in ET rester chez escapes

614

00:27:46,429 --> 00:27:49,970

this blog in op 2 30am lay autodesk

615

00:27:47,990 --> 00:27:54,009

ateres hefty performance so speculum Oh

616

00:27:49,970 --> 00:27:54,009

Delta Dulce escapes is totes hello

617

00:28:00,429 --> 00:28:07,659

here's my not spooky action at a

618

00:28:05,119 --> 00:28:07,658

distance

619

00:28:13,250 --> 00:28:17,599

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

620

00:28:15,289 --> 00:28:20,769

you on right now let's get in the main

621

00:28:17,599 --> 00:28:23,750

armor bill and go into deepest darkest

622

00:28:20,769 --> 00:28:26,029

newcastle that's right picture this doo

623

00:28:23,750 --> 00:28:27,950

dee doo doo dee doo doo wednesday night

624

00:28:26,029 --> 00:28:29,990

in newcastle it's normally you know

625

00:28:27,950 --> 00:28:31,460

after midnight a lot of drinking goes on

626

00:28:29,990 --> 00:28:33,920

from the students and they go from venue

627

00:28:31,460 --> 00:28:36,440

to venue having shall we say a student e

628  
00:28:33,920 --> 00:28:40,759  
good time but this wednesday night at

629  
00:28:36,440 --> 00:28:43,190  
six o'clock underground underneath the

630  
00:28:40,759 --> 00:28:45,140  
Grand Hotel opposite the courthouse all

631  
00:28:43,190 --> 00:28:46,759  
the action happens where the journalists

632  
00:28:45,140 --> 00:28:48,470  
who used to be employed in Newcastle

633  
00:28:46,759 --> 00:28:50,180  
used to drink when they were journalists

634  
00:28:48,470 --> 00:28:52,610  
in Newcastle before they all got sacked

635  
00:28:50,180 --> 00:28:55,130  
the Grand Hotel downstairs there was a

636  
00:28:52,609 --> 00:28:56,329  
science in the pub science and pubs

637  
00:28:55,130 --> 00:28:57,710  
fantastic it's happening at a number of

638  
00:28:56,329 --> 00:29:00,289  
places around Australia but we had a

639  
00:28:57,710 --> 00:29:02,630  
special special line up of local people

640  
00:29:00,289 --> 00:29:05,389  
at the newcastle science in the pub

641  
00:29:02,630 --> 00:29:07,490  
laureate professor john aitken professor

642  
00:29:05,390 --> 00:29:09,230  
Rodney Scott and professor Pablo moscato

643  
00:29:07,490 --> 00:29:10,720  
they formed the panel on the night and

644  
00:29:09,230 --> 00:29:13,849  
they talked about nanotechnology

645  
00:29:10,720 --> 00:29:14,960  
biotechnology and bioethics how many

646  
00:29:13,849 --> 00:29:18,859  
people you think turned up for this in

647  
00:29:14,960 --> 00:29:20,240  
Newcastle don't ask over 100 and I'm

648  
00:29:18,859 --> 00:29:21,799  
just saying over 100 because as someone

649  
00:29:20,240 --> 00:29:23,390  
pointed out it wasn't mathematics in the

650  
00:29:21,799 --> 00:29:25,490  
pub I couldn't count them all their

651  
00:29:23,390 --> 00:29:27,320  
people jammed in behind chairs everyone

652  
00:29:25,490 --> 00:29:29,930  
had a hood of a time I think it's about

653  
00:29:27,319 --> 00:29:32,269  
time we had stadium science we've got

654  
00:29:29,930 --> 00:29:34,100  
stadium rock why can't we have stadium

655  
00:29:32,269 --> 00:29:36,440  
science why cant Hawking get up there

656

00:29:34,099 --> 00:29:38,149  
take some questions and then crowd surf

657  
00:29:36,440 --> 00:29:40,640  
I don't know why that can't happen well

658  
00:29:38,150 --> 00:29:42,470  
it Dawkins the Richard Dawkins drinking

659  
00:29:40,640 --> 00:29:43,940  
challenge on stage while he's taking

660  
00:29:42,470 --> 00:29:46,460  
questions perfect i know i'd be there

661  
00:29:43,940 --> 00:29:48,440  
this is the first the first of a couple

662  
00:29:46,460 --> 00:29:50,630  
of science in the pubs around australia

663  
00:29:48,440 --> 00:29:53,660  
science in the pub will be at hobart on

664  
00:29:50,630 --> 00:29:56,480  
the 7th of march it'll be in Dubbo on

665  
00:29:53,660 --> 00:29:57,830  
the fourteenth of march and the rest of

666  
00:29:56,480 --> 00:29:59,839  
the dates haven't been organized yet but

667  
00:29:57,829 --> 00:30:03,909  
there will be science in the pub at Port

668  
00:29:59,839 --> 00:30:07,119  
Lincoln kalgoorlie broom Darwin

669  
00:30:03,910 --> 00:30:07,120  
Townsville and

670  
00:30:10,288 --> 00:30:15,999

calamba it's also presented by ABC local

671

00:30:13,838 --> 00:30:18,489

radio so if you know your ABC local

672

00:30:15,999 --> 00:30:20,348

radio station and you should in Hobart

673

00:30:18,489 --> 00:30:22,690

dubbo Port Lincoln kalgoorlie broom

674

00:30:20,348 --> 00:30:24,788

Darwin townsell in toowoomba they will

675

00:30:22,690 --> 00:30:26,889

also be announcing it signed to the pub

676

00:30:24,788 --> 00:30:28,690

it's happening but right now we take you

677

00:30:26,888 --> 00:30:29,498

to shortly after science and the pub

678

00:30:28,690 --> 00:30:31,359

finished they were talking

679

00:30:29,499 --> 00:30:33,519

nanotechnology they were talking

680

00:30:31,358 --> 00:30:35,528

high-tech and then they were talking to

681

00:30:33,519 --> 00:30:38,169

me bit of a disappointment really up

682

00:30:35,528 --> 00:30:39,759

hang on late breaking news the website

683

00:30:38,169 --> 00:30:41,950

if you'd like to know exactly more about

684

00:30:39,759 --> 00:30:44,828

this is oh and of course it's very easy

685  
00:30:41,950 --> 00:30:51,429  
one to remember take a new edu 2012 that

686  
00:30:44,828 --> 00:30:58,538  
note it is Tec Tec h NY 0 u dot ed u dot

687  
00:30:51,429 --> 00:31:01,989  
au / 2013 / 02 / science in the pub all

688  
00:30:58,538 --> 00:31:03,759  
one word that website in case you missed

689  
00:31:01,989 --> 00:31:08,649  
it again or you can just run the mp3

690  
00:31:03,759 --> 00:31:13,690  
back Tech you dot ed u dot a you forward

691  
00:31:08,648 --> 00:31:15,908  
slash 2013 /o to forward slash science

692  
00:31:13,690 --> 00:31:17,229  
in the pub but if you have a look at

693  
00:31:15,909 --> 00:31:18,999  
these show notes for the skeptic zone

694  
00:31:17,229 --> 00:31:20,769  
this very episode I'm sure that link

695  
00:31:18,999 --> 00:31:23,889  
will be there and now back to our

696  
00:31:20,769 --> 00:31:28,229  
regular scheduled program well I'm

697  
00:31:23,888 --> 00:31:28,228  
beginning to feel a lot like eggplant

698  
00:31:30,450 --> 00:31:34,629  
look we've just had so much impetus we

699  
00:31:33,249 --> 00:31:36,459  
just had science in the pub what do you

700  
00:31:34,628 --> 00:31:37,808  
think of it sir was excellent what's

701  
00:31:36,459 --> 00:31:39,070  
your field of interest what you what was

702  
00:31:37,808 --> 00:31:41,108  
the bit that interest you to the most we

703  
00:31:39,069 --> 00:31:42,608  
had three top scientists and there was

704  
00:31:41,108 --> 00:31:44,199  
all very interesting but the area I

705  
00:31:42,608 --> 00:31:47,558  
working was the bit they spoke about the

706  
00:31:44,200 --> 00:31:49,629  
end which is end of life yes and what

707  
00:31:47,558 --> 00:31:51,759  
concludes your Blizzard it mr. Seidel

708  
00:31:49,628 --> 00:31:53,138  
driven answer the conclusion was that I

709  
00:31:51,759 --> 00:31:54,159  
shouldn't actually ask the question I

710  
00:31:53,138 --> 00:31:55,868  
was going to ask her so would have

711  
00:31:54,159 --> 00:31:57,700  
brought it down or on everything because

712  
00:31:55,868 --> 00:32:01,028  
everything was dealing with conception

713

00:31:57,700 --> 00:32:03,639  
and they sort of finished off with with

714  
00:32:01,028 --> 00:32:05,769  
the euthanasia I thought it was probably

715  
00:32:03,638 --> 00:32:07,039  
not the night to go out on but actually

716  
00:32:05,769 --> 00:32:09,289  
is the night to go a little bit

717  
00:32:07,039 --> 00:32:10,789  
a huge night wasn't it all these people

718  
00:32:09,289 --> 00:32:13,430  
in Newcastle talking about science call

719  
00:32:10,789 --> 00:32:14,659  
it quality stuff quality stuff here now

720  
00:32:13,430 --> 00:32:16,490  
what do you think of our science in the

721  
00:32:14,660 --> 00:32:19,310  
pub night what a huge amount of people I

722  
00:32:16,490 --> 00:32:20,990  
thought it was really good I'm out of my

723  
00:32:19,309 --> 00:32:22,639  
league here I'm not a science person I'm

724  
00:32:20,990 --> 00:32:23,870  
a stay-at-home mother I'll go say when

725  
00:32:22,640 --> 00:32:26,000  
they started talking about genome

726  
00:32:23,869 --> 00:32:28,759  
sequencing i was a bit confused himself

727  
00:32:26,000 --> 00:32:30,500

i was more curious about i have four

728

00:32:28,759 --> 00:32:33,200

boys and I would do anything to get a

729

00:32:30,500 --> 00:32:35,390

girl so I wish that they could do gender

730

00:32:33,200 --> 00:32:37,100

selection but you know I don't think it

731

00:32:35,390 --> 00:32:39,740

expected expect that downstairs at the

732

00:32:37,099 --> 00:32:40,909

Grand Hotel him awareness a night and

733

00:32:39,740 --> 00:32:42,559

what do you think of the evening I

734

00:32:40,910 --> 00:32:44,360

really liked it it was there a part that

735

00:32:42,559 --> 00:32:46,159

really appealed to a lot of it was quite

736

00:32:44,359 --> 00:32:47,299

pitched high but I quite like the fact

737

00:32:46,160 --> 00:32:48,769

that i didn't know some of it because it

738

00:32:47,299 --> 00:32:50,149

was interesting i studied by a

739

00:32:48,769 --> 00:32:51,680

technology at the University of

740

00:32:50,150 --> 00:32:53,120

Newcastle so I knew a lot of what

741

00:32:51,680 --> 00:32:55,580

they'll talk about so they never lost

742  
00:32:53,119 --> 00:32:57,199  
you once no not really it was there an

743  
00:32:55,579 --> 00:32:58,699  
era that the computers i was interested

744  
00:32:57,200 --> 00:33:01,009  
in at the computers working with the

745  
00:32:58,700 --> 00:33:02,870  
genetics and that was a bit that really

746  
00:33:01,009 --> 00:33:03,829  
fire the imagination I thought that was

747  
00:33:02,869 --> 00:33:06,019  
really interesting how they're doing

748  
00:33:03,829 --> 00:33:08,059  
that and of course all the people have

749  
00:33:06,019 --> 00:33:10,400  
turned up I'm surprised we got over 100

750  
00:33:08,059 --> 00:33:12,559  
people here tonight yeah we had trouble

751  
00:33:10,400 --> 00:33:14,720  
getting a seat so good job okay okay

752  
00:33:12,559 --> 00:33:17,210  
thank you very much thank you look at

753  
00:33:14,720 --> 00:33:19,100  
the crowds moving away now I think

754  
00:33:17,210 --> 00:33:20,390  
you're the young Newton overcast rune of

755  
00:33:19,099 --> 00:33:22,099  
the year or something you mentioned what

756  
00:33:20,390 --> 00:33:23,330  
was that one this one here look up well

757  
00:33:22,099 --> 00:33:24,919  
you had a pretty good question too and

758  
00:33:23,329 --> 00:33:26,179  
you were constantly blogging what was

759  
00:33:24,920 --> 00:33:28,519  
everyone saying on Twitter while I was

760  
00:33:26,180 --> 00:33:30,259  
going on I was looking at still quite a

761  
00:33:28,519 --> 00:33:32,420  
few people tweeting as the event was

762  
00:33:30,259 --> 00:33:33,579  
going on which was great to see lots of

763  
00:33:32,420 --> 00:33:35,870  
people really engage in the discussion

764  
00:33:33,579 --> 00:33:37,699  
lots of people who were really excited

765  
00:33:35,869 --> 00:33:39,949  
this science event was happening in a

766  
00:33:37,700 --> 00:33:41,180  
pub here in town and Wednesday night in

767  
00:33:39,950 --> 00:33:43,279  
New Castle I move got more than a

768  
00:33:41,180 --> 00:33:45,019  
hundred people which is fantastic when

769  
00:33:43,279 --> 00:33:46,759  
most of these people i think i'm heading

770

00:33:45,019 --> 00:33:48,079  
out or to student night in town it's

771  
00:33:46,759 --> 00:33:50,089  
very different crowd than you'd normally

772  
00:33:48,079 --> 00:33:51,980  
see out well normally you don't see them

773  
00:33:50,089 --> 00:33:54,230  
till after midnight very drunk apartment

774  
00:33:51,980 --> 00:33:55,849  
yes certainly but it would be great

775  
00:33:54,230 --> 00:33:57,710  
events like this could continue in your

776  
00:33:55,849 --> 00:33:59,539  
car sliding given the turnout tonight

777  
00:33:57,710 --> 00:34:01,190  
there's certainly a desire for them to

778  
00:33:59,539 --> 00:34:03,079  
continue this early be an audience for

779  
00:34:01,190 --> 00:34:05,620  
them and the crab what was the area of

780  
00:34:03,079 --> 00:34:08,599  
the conversation that you went all right

781  
00:34:05,619 --> 00:34:10,519  
so there was a very big discussion about

782  
00:34:08,599 --> 00:34:12,319  
the ethics around science which is I

783  
00:34:10,519 --> 00:34:14,269  
think an area that the public can engage

784  
00:34:12,320 --> 00:34:16,159

more broadly where it's not about the

785

00:34:14,269 --> 00:34:17,329

the ins and outs of science the

786

00:34:16,159 --> 00:34:18,648

technical knowledge that you have to

787

00:34:17,329 --> 00:34:20,480

have to engage in the discussion but

788

00:34:18,648 --> 00:34:22,549

what you think site should be focusing

789

00:34:20,480 --> 00:34:25,099

on what the areas you think should be

790

00:34:22,550 --> 00:34:27,080

off limit to science and we think sites

791

00:34:25,099 --> 00:34:28,549

should be going in the future and have

792

00:34:27,079 --> 00:34:29,719

you got a rough answer to where you

793

00:34:28,550 --> 00:34:32,300

think science should be going in the

794

00:34:29,719 --> 00:34:34,459

future no idea I'd certainly like to see

795

00:34:32,300 --> 00:34:35,810

a lot more science continuing in climate

796

00:34:34,460 --> 00:34:37,340

change I think that's an area where

797

00:34:35,809 --> 00:34:40,519

particularly here in Newcastle there's

798

00:34:37,340 --> 00:34:43,250

scope for a lot more research in that

799  
00:34:40,519 --> 00:34:45,289  
field I know we have the CSIRO clean

800  
00:34:43,250 --> 00:34:47,269  
energy center here in town which is

801  
00:34:45,289 --> 00:34:49,219  
doing fantastic work look they've got

802  
00:34:47,269 --> 00:34:50,929  
their death ray at west maitland that

803  
00:34:49,219 --> 00:34:51,769  
got that solar array that's set up there

804  
00:34:50,929 --> 00:34:54,139  
looks like they're doing something

805  
00:34:51,769 --> 00:34:56,809  
really spooky yeah it's doing great

806  
00:34:54,139 --> 00:34:58,280  
things they've also got their site in

807  
00:34:56,809 --> 00:35:00,199  
western New Castle is doing a lot of

808  
00:34:58,280 --> 00:35:03,080  
energy efficiency we've got the Smart

809  
00:35:00,199 --> 00:35:05,029  
City free system that's getting up and

810  
00:35:03,079 --> 00:35:07,219  
running which will hopefully be a huge

811  
00:35:05,030 --> 00:35:09,019  
improvement in reducing the amount of

812  
00:35:07,219 --> 00:35:11,689  
electricity we use across the country

813  
00:35:09,019 --> 00:35:13,099  
and Jessie enormous talent that we have

814  
00:35:11,690 --> 00:35:14,510  
through the University it would be great

815  
00:35:13,099 --> 00:35:15,949  
to him more of the stories coming out

816  
00:35:14,510 --> 00:35:17,390  
there yeah so you hear that people

817  
00:35:15,949 --> 00:35:19,549  
listening there was science going on a

818  
00:35:17,389 --> 00:35:21,230  
Newcastle thank you definitely now you

819  
00:35:19,550 --> 00:35:22,640  
give the person who had the question

820  
00:35:21,230 --> 00:35:24,108  
that stopped them a bit there you are

821  
00:35:22,639 --> 00:35:26,210  
being a bit of a troublemaker what were

822  
00:35:24,108 --> 00:35:28,190  
you what you're asking early on so I was

823  
00:35:26,210 --> 00:35:30,710  
asking a question about how politics and

824  
00:35:28,190 --> 00:35:33,530  
science interact and essentially how how

825  
00:35:30,710 --> 00:35:35,269  
a government can function in a in a

826  
00:35:33,530 --> 00:35:37,390  
situation where science is often far

827

00:35:35,269 --> 00:35:39,800  
ahead of where the regulatory framework

828  
00:35:37,389 --> 00:35:40,879  
exists yes because you just off the top

829  
00:35:39,800 --> 00:35:43,460  
of my head I wouldn't think there'd be a

830  
00:35:40,880 --> 00:35:45,050  
lot of boats in working out that ethics

831  
00:35:43,460 --> 00:35:48,019  
on something that no one's interested in

832  
00:35:45,050 --> 00:35:50,630  
just yet yeah I think that was addressed

833  
00:35:48,019 --> 00:35:53,269  
in there the answers in that politics

834  
00:35:50,630 --> 00:35:55,970  
tends to focus far too much on the

835  
00:35:53,269 --> 00:35:57,829  
tomorrow's polling figures or and even

836  
00:35:55,969 --> 00:35:59,000  
looking as the furthest distance we look

837  
00:35:57,829 --> 00:36:00,980  
ahead is the next election where a

838  
00:35:59,000 --> 00:36:04,280  
science produces things that are going

839  
00:36:00,980 --> 00:36:07,369  
to pay off in 10 20 50 years time and

840  
00:36:04,280 --> 00:36:09,290  
it's a great forethought is required on

841  
00:36:07,369 --> 00:36:11,989

behalf of regulators in order to achieve

842

00:36:09,289 --> 00:36:14,119

significant gains and you were young

843

00:36:11,989 --> 00:36:17,329

nerve occasionally you I believe that's

844

00:36:14,119 --> 00:36:18,529

right and wasn't it great to see I've

845

00:36:17,329 --> 00:36:20,119

said this a few times because I'm really

846

00:36:18,530 --> 00:36:21,620

into it a hundred people getting

847

00:36:20,119 --> 00:36:24,139

together to talk about science on a

848

00:36:21,619 --> 00:36:26,269

wednesday night at newcastle i think

849

00:36:24,139 --> 00:36:28,549

it's fantastic i mean the pub in in a

850

00:36:26,269 --> 00:36:30,500

pub exactly i mean far too often science

851

00:36:28,550 --> 00:36:32,630

is done in universities where we're

852

00:36:30,500 --> 00:36:34,699

crazy academics published papers that

853

00:36:32,630 --> 00:36:36,680

the vast majority of the community never

854

00:36:34,699 --> 00:36:38,809

see and so it's a really an important

855

00:36:36,679 --> 00:36:40,489

thing that the community get to see the

856  
00:36:38,809 --> 00:36:42,469  
payoff of what science is producing in

857  
00:36:40,489 --> 00:36:43,819  
society look frankly speaking from a

858  
00:36:42,469 --> 00:36:45,319  
scientific perspective it was great to

859  
00:36:43,820 --> 00:36:46,730  
see some good haircuts in the room I

860  
00:36:45,320 --> 00:36:48,470  
mean normally when you go to sign stuff

861  
00:36:46,730 --> 00:36:50,869  
you can't see one decent haircut in the

862  
00:36:48,469 --> 00:36:52,549  
entire forum and that's definitely true

863  
00:36:50,869 --> 00:36:54,289  
mate I definitely okay we'll have a good

864  
00:36:52,550 --> 00:36:55,730  
night you two actually how many people

865  
00:36:54,289 --> 00:36:57,349  
have any bill you reckon wish you get

866  
00:36:55,730 --> 00:36:58,730  
next time what kind of room do we need I

867  
00:36:57,349 --> 00:37:00,139  
mean it's almost like we need the band

868  
00:36:58,730 --> 00:37:01,280  
room at the Cambridge isn't it we

869  
00:37:00,139 --> 00:37:02,539  
definitely need the band room of the

870  
00:37:01,280 --> 00:37:04,370  
Cambridge I think that's the next in the

871  
00:37:02,539 --> 00:37:08,989  
next logical step let's do some stadium

872  
00:37:04,369 --> 00:37:11,179  
science exactly just just remember this

873  
00:37:08,989 --> 00:37:13,339  
a skeptic zone special now many of you

874  
00:37:11,179 --> 00:37:16,329  
science viewers will will remember this

875  
00:37:13,340 --> 00:37:16,329  
voice who is this person

876  
00:37:20,340 --> 00:37:25,930  
hello tonight on quantum I'm standing

877  
00:37:23,800 --> 00:37:28,390  
outside of a fascinating laboratory

878  
00:37:25,929 --> 00:37:30,190  
where they're testing high-heeled shoes

879  
00:37:28,389 --> 00:37:31,779  
that's right that's the voice of jill

880  
00:37:30,190 --> 00:37:33,849  
emberson and you worked on quantum for

881  
00:37:31,780 --> 00:37:36,340  
many years what was the state of science

882  
00:37:33,849 --> 00:37:39,940  
reporting when you were doing it it was

883  
00:37:36,340 --> 00:37:42,160  
absolutely embryonic I had no scientific

884

00:37:39,940 --> 00:37:45,099  
knowledge whatsoever I'd walked out of

885  
00:37:42,159 --> 00:37:48,219  
playing records and talking silly bitsat

886  
00:37:45,099 --> 00:37:50,889  
to triple j Maynard I needed no science

887  
00:37:48,219 --> 00:37:53,019  
we were babies in woods I hope it's come

888  
00:37:50,889 --> 00:37:55,210  
a long way and the mall and the whole

889  
00:37:53,019 --> 00:37:56,710  
geek culture has improved as well I mean

890  
00:37:55,210 --> 00:37:59,470  
now the word geek is certainly not an

891  
00:37:56,710 --> 00:38:01,840  
insult I think being a geek is cool I'm

892  
00:37:59,469 --> 00:38:04,089  
not a geek and I feel I'm on the outside

893  
00:38:01,840 --> 00:38:05,920  
can you help me now I'm speaking to you

894  
00:38:04,090 --> 00:38:07,780  
because you hosted science in the pub

895  
00:38:05,920 --> 00:38:08,950  
here at Newcastle now what did you think

896  
00:38:07,780 --> 00:38:10,269  
was the moment where the evening really

897  
00:38:08,949 --> 00:38:11,769  
took off because there's love feisty

898  
00:38:10,269 --> 00:38:14,199

questions about ethics science the

899

00:38:11,769 --> 00:38:16,090

future euthanasia politics what was the

900

00:38:14,199 --> 00:38:19,899

month when you went off here we go when

901

00:38:16,090 --> 00:38:21,460

Pablo two moments first when the new

902

00:38:19,900 --> 00:38:24,130

south wales scientists of the year

903

00:38:21,460 --> 00:38:27,849

city's alternative career path was real

904

00:38:24,130 --> 00:38:31,329

estate we got through that wave the next

905

00:38:27,849 --> 00:38:34,389

moment was when professor Pablo moscato

906

00:38:31,329 --> 00:38:36,880

yes that is his real name said that we

907

00:38:34,389 --> 00:38:39,940

are in a revolution and and that the

908

00:38:36,880 --> 00:38:42,550

revolution is here it's not up the road

909

00:38:39,940 --> 00:38:45,429

when it comes to genetic knowledge that

910

00:38:42,550 --> 00:38:48,640

we've got right now I think there was a

911

00:38:45,429 --> 00:38:50,099

big heart moment jalali give it to

912

00:38:48,639 --> 00:38:52,779

meeting people of the puppet however

913  
00:38:50,099 --> 00:38:54,309  
mention it 100 people in newcastle on a

914  
00:38:52,780 --> 00:38:56,290  
wednesday night in a pub talking about

915  
00:38:54,309 --> 00:38:58,690  
science and high-level genome stuff too

916  
00:38:56,289 --> 00:39:00,639  
I'm blown away I have really blown away

917  
00:38:58,690 --> 00:39:03,630  
too there's even more people here than

918  
00:39:00,639 --> 00:39:06,489  
the jazz night which has taken a lot of

919  
00:39:03,630 --> 00:39:09,880  
developing I'm blown away that there are

920  
00:39:06,489 --> 00:39:12,519  
this many people 100-plus for science in

921  
00:39:09,880 --> 00:39:14,800  
the pub on a school night I've called it

922  
00:39:12,519 --> 00:39:16,130  
the band room at the Cambridge stadium

923  
00:39:14,800 --> 00:39:19,370  
science

924  
00:39:16,130 --> 00:39:21,019  
next thing I'll see you there wow look

925  
00:39:19,369 --> 00:39:22,759  
we're not we're getting close to the bar

926  
00:39:21,019 --> 00:39:24,619  
but not quite how did you enjoy science

927  
00:39:22,760 --> 00:39:26,960  
in the pub and are you blown away by how

928  
00:39:24,619 --> 00:39:28,369  
many people turned up it was chokers I

929  
00:39:26,960 --> 00:39:30,260  
couldn't find a seat I came in a few

930  
00:39:28,369 --> 00:39:32,210  
minutes late in the year was it was so

931  
00:39:30,260 --> 00:39:33,590  
full but it was great it was absolutely

932  
00:39:32,210 --> 00:39:35,539  
worth it what was your interests are you

933  
00:39:33,590 --> 00:39:37,550  
studying the field oh yeah I'll my

934  
00:39:35,539 --> 00:39:39,259  
medical students so a few my lecturers

935  
00:39:37,550 --> 00:39:40,820  
are here today actually and now though

936  
00:39:39,260 --> 00:39:42,440  
talking at a fairly high level with some

937  
00:39:40,820 --> 00:39:43,820  
of the sciences and what did you think

938  
00:39:42,440 --> 00:39:45,769  
of the level that they were pitching out

939  
00:39:43,820 --> 00:39:47,330  
it was quite how I wasn't it it was high

940  
00:39:45,769 --> 00:39:49,369  
but i think they managed to bring it

941

00:39:47,329 --> 00:39:50,960  
down to a level that most people could

942  
00:39:49,369 --> 00:39:52,849  
understand and then yeah they really

943  
00:39:50,960 --> 00:39:54,500  
simplified the concepts who was there an

944  
00:39:52,849 --> 00:39:55,849  
area was there a question that was asked

945  
00:39:54,500 --> 00:39:58,610  
you went yeah I want to know that answer

946  
00:39:55,849 --> 00:40:00,529  
too um here look at the questions on

947  
00:39:58,610 --> 00:40:02,360  
pharmaceutical pricing so treating

948  
00:40:00,530 --> 00:40:04,100  
cancer treatments and how we can bring

949  
00:40:02,360 --> 00:40:05,300  
down costs that was the same very

950  
00:40:04,099 --> 00:40:06,889  
relevant I thought it was interesting

951  
00:40:05,300 --> 00:40:09,530  
the way he was comparing it to the cost

952  
00:40:06,889 --> 00:40:11,449  
of HIV treatment in the early 90s yeah

953  
00:40:09,530 --> 00:40:13,160  
definitely definitely but it was

954  
00:40:11,449 --> 00:40:14,779  
mentioned by the other person ever when

955  
00:40:13,159 --> 00:40:16,250

you looked at the effectiveness of the

956

00:40:14,780 --> 00:40:17,570

cancer treatment I was working out about

957

00:40:16,250 --> 00:40:19,849

a million dollars a patient which I

958

00:40:17,570 --> 00:40:21,170

thought was very interesting figure yeah

959

00:40:19,849 --> 00:40:22,909

well I suppose that's where they were

960

00:40:21,170 --> 00:40:24,769

talking about tailoring treatments and

961

00:40:22,909 --> 00:40:26,420

so the importance of funding research

962

00:40:24,769 --> 00:40:29,210

and in the long term bringing down

963

00:40:26,420 --> 00:40:30,470

pharmaceutical prices any idea if you'd

964

00:40:29,210 --> 00:40:32,599

like to specialize when you're finished

965

00:40:30,469 --> 00:40:34,459

your training yeah definitely i'm

966

00:40:32,599 --> 00:40:35,809

hearing from john aitken the fertility

967

00:40:34,460 --> 00:40:37,550

specialist there's only I'm very

968

00:40:35,809 --> 00:40:38,840

interested in so yeah maybe one day

969

00:40:37,550 --> 00:40:40,430

would you be concerned about us living

970  
00:40:38,840 --> 00:40:42,590  
in a gattaca world one day where there's

971  
00:40:40,429 --> 00:40:44,480  
the people who have the the DNA that can

972  
00:40:42,590 --> 00:40:46,730  
be changed and the ones that like a scar

973  
00:40:44,480 --> 00:40:48,740  
yeah definitely I think there's a lot of

974  
00:40:46,730 --> 00:40:50,030  
science fiction talk that goes on as

975  
00:40:48,739 --> 00:40:52,129  
well you know a lot of people make the

976  
00:40:50,030 --> 00:40:53,480  
slippery slope argument but you know at

977  
00:40:52,130 --> 00:40:55,369  
the end of the day they were talking

978  
00:40:53,480 --> 00:40:57,380  
about how we do have regulation in place

979  
00:40:55,369 --> 00:40:58,759  
we have got really good systems so I

980  
00:40:57,380 --> 00:41:01,010  
don't really think of the go quite as

981  
00:40:58,760 --> 00:41:03,110  
Extreme as a science fiction and what is

982  
00:41:01,010 --> 00:41:05,540  
the next place to do the science and the

983  
00:41:03,110 --> 00:41:06,630  
pub at the shoe 200 people it's not way

984  
00:41:05,539 --> 00:41:08,730  
bigger yeah

985  
00:41:06,630 --> 00:41:10,079  
thank you very much and what were you

986  
00:41:08,730 --> 00:41:11,759  
into tonight might brought you along you

987  
00:41:10,079 --> 00:41:13,349  
were student as well I'm a doctor but

988  
00:41:11,759 --> 00:41:15,539  
I'm also starting a mass public health

989  
00:41:13,349 --> 00:41:16,740  
of them over so you actually have to

990  
00:41:15,539 --> 00:41:19,799  
have people sitting in front of you the

991  
00:41:16,739 --> 00:41:21,568  
sick yes I do okay I'm an actual work

992  
00:41:19,798 --> 00:41:23,369  
that everyday basis what did you get out

993  
00:41:21,568 --> 00:41:25,288  
of discussion tonight I thought it was

994  
00:41:23,369 --> 00:41:26,579  
very interesting in topical in terms of

995  
00:41:25,289 --> 00:41:28,470  
research and how much were actually

996  
00:41:26,579 --> 00:41:30,089  
funding the area and the opportunities

997  
00:41:28,469 --> 00:41:31,558  
that available and what needs to be done

998

00:41:30,088 --> 00:41:32,960  
to sort of involve the community of the

999  
00:41:31,559 --> 00:41:35,069  
government's more and sort of

1000  
00:41:32,960 --> 00:41:37,019  
appreciating and encouraging that sort

1001  
00:41:35,068 --> 00:41:38,518  
of research pursuit what did you think

1002  
00:41:37,018 --> 00:41:39,538  
was the most controversial question

1003  
00:41:38,518 --> 00:41:41,578  
there was a couple of political

1004  
00:41:39,539 --> 00:41:43,109  
questions asked and about fertility and

1005  
00:41:41,579 --> 00:41:44,609  
all that sort of thing yes definitely I

1006  
00:41:43,108 --> 00:41:46,139  
think there was a very topical question

1007  
00:41:44,608 --> 00:41:47,578  
raised about whether people should have

1008  
00:41:46,139 --> 00:41:49,379  
access to information that they haven't

1009  
00:41:47,579 --> 00:41:52,380  
necessarily asked for themselves in

1010  
00:41:49,380 --> 00:41:54,599  
terms of genetic testing it's kind of a

1011  
00:41:52,380 --> 00:41:56,160  
Pandora's box because if you're not sort

1012  
00:41:54,599 --> 00:41:57,900

of expecting that information how can

1013

00:41:56,159 --> 00:42:00,358

you expect someone to deal with it and

1014

00:41:57,900 --> 00:42:02,039

to want to have that information I think

1015

00:42:00,358 --> 00:42:03,480

in terms of research it's important to

1016

00:42:02,039 --> 00:42:05,460

have that information but then from a

1017

00:42:03,480 --> 00:42:07,170

patient perspective it might impair

1018

00:42:05,460 --> 00:42:08,220

their quality of life they find out so

1019

00:42:07,170 --> 00:42:10,139

that's always going to be a tricky

1020

00:42:08,219 --> 00:42:11,909

balance do you think doctors records

1021

00:42:10,139 --> 00:42:13,379

should be more transparent than they are

1022

00:42:11,909 --> 00:42:15,088

now I think there is a need for secrecy

1023

00:42:13,380 --> 00:42:16,170

because you do right all sorts of things

1024

00:42:15,088 --> 00:42:18,268

when you're speculating about a

1025

00:42:16,170 --> 00:42:19,740

patient's illness I think that patient

1026

00:42:18,268 --> 00:42:21,389

records are already quite transparent

1027  
00:42:19,739 --> 00:42:22,828  
patients definitely have access to it

1028  
00:42:21,389 --> 00:42:25,199  
they're back to their information and

1029  
00:42:22,829 --> 00:42:26,910  
can ask for it in given time but I think

1030  
00:42:25,199 --> 00:42:27,929  
you pasted people like insurance company

1031  
00:42:26,909 --> 00:42:29,848  
should have access to it that would

1032  
00:42:27,929 --> 00:42:30,929  
definitely change the game I think it's

1033  
00:42:29,849 --> 00:42:32,789  
surance company shouldn't have more

1034  
00:42:30,929 --> 00:42:35,489  
access than a patient themselves ideally

1035  
00:42:32,789 --> 00:42:36,480  
ok but so they can regulate the pricing

1036  
00:42:35,489 --> 00:42:39,449  
and know what they're getting into with

1037  
00:42:36,480 --> 00:42:40,949  
the person I think that being sure it

1038  
00:42:39,449 --> 00:42:41,969  
last I mentioned before I fit the

1039  
00:42:40,949 --> 00:42:43,619  
insurance company Chenault Morgana

1040  
00:42:41,969 --> 00:42:45,719  
patients so

1041  
00:42:43,619 --> 00:42:46,980  
patience node information than their

1042  
00:42:45,719 --> 00:42:48,209  
more prepared for that sort of a

1043  
00:42:46,980 --> 00:42:50,280  
situation but to have an insurance

1044  
00:42:48,210 --> 00:42:52,679  
company know that before them would not

1045  
00:42:50,280 --> 00:42:53,940  
be ideal so these are big concepts to be

1046  
00:42:52,679 --> 00:42:55,230  
discussing on a wednesday night at the

1047  
00:42:53,940 --> 00:42:57,179  
Grand Hotel in Newcastle aren't they

1048  
00:42:55,230 --> 00:42:58,469  
isn't it great yes it's fantastic i

1049  
00:42:57,179 --> 00:43:00,409  
think more days eventually definitely a

1050  
00:42:58,469 --> 00:43:04,559  
care and it gets to get involved in

1051  
00:43:00,409 --> 00:43:06,299  
believing in what we're doing here well

1052  
00:43:04,559 --> 00:43:08,429  
we're just at the end of science in the

1053  
00:43:06,300 --> 00:43:09,780  
pub had more than a hundred people in a

1054  
00:43:08,429 --> 00:43:11,699  
room that's probably only designed to

1055

00:43:09,780 --> 00:43:13,980  
fit about 60 we had three eminent

1056  
00:43:11,699 --> 00:43:16,379  
sciences and um scientists i'm here with

1057  
00:43:13,980 --> 00:43:18,510  
one of the organizers now at that Franky

1058  
00:43:16,380 --> 00:43:19,890  
who are you what have we had happen here

1059  
00:43:18,510 --> 00:43:22,800  
and one of the ramifications this for

1060  
00:43:19,889 --> 00:43:24,599  
Newcastle more I say um me I'm actually

1061  
00:43:22,800 --> 00:43:26,490  
nobody but this has been a little bit

1062  
00:43:24,599 --> 00:43:28,440  
for some bodies and science somebody's

1063  
00:43:26,489 --> 00:43:30,329  
and it's been great we weren't sure how

1064  
00:43:28,440 --> 00:43:32,309  
many people we get along and who the

1065  
00:43:30,329 --> 00:43:34,799  
people would be and there was all kinds

1066  
00:43:32,309 --> 00:43:36,840  
of people here they were like medical

1067  
00:43:34,800 --> 00:43:38,850  
students but there was also just normal

1068  
00:43:36,840 --> 00:43:41,340  
like Newcastle people as well thank you

1069  
00:43:38,849 --> 00:43:43,349

for a room of scientists there was a lot

1070

00:43:41,340 --> 00:43:44,880

of good haircuts that's right yeah yeah

1071

00:43:43,349 --> 00:43:48,059

and they weren't there wasn't as many

1072

00:43:44,880 --> 00:43:49,920

grey beards as I expected in fact there

1073

00:43:48,059 --> 00:43:52,380

were a few of those Yogi's I saw some of

1074

00:43:49,920 --> 00:43:54,329

those too and I saw two neck beards

1075

00:43:52,380 --> 00:43:55,680

normally you'd get more than two neck

1076

00:43:54,329 --> 00:43:58,920

beards in a hundred scientists but

1077

00:43:55,679 --> 00:44:01,079

that's not bad um what other scientists

1078

00:43:58,920 --> 00:44:03,180

at the end there was saying that he

1079

00:44:01,079 --> 00:44:04,619

feels that that they had they should do

1080

00:44:03,179 --> 00:44:06,989

this kind of thing because he owes it to

1081

00:44:04,619 --> 00:44:08,849

us because we pay his salary basically

1082

00:44:06,989 --> 00:44:10,379

through attacks to find out what people

1083

00:44:08,849 --> 00:44:11,849

think about the research and he does

1084  
00:44:10,380 --> 00:44:13,950  
with it we think it's worth the effort

1085  
00:44:11,849 --> 00:44:16,469  
and a lot of people made their comments

1086  
00:44:13,949 --> 00:44:18,210  
and he was really happy to have a chance

1087  
00:44:16,469 --> 00:44:19,829  
to hear what people think about what

1088  
00:44:18,210 --> 00:44:22,679  
he's doing so I thought that was pretty

1089  
00:44:19,829 --> 00:44:24,449  
cool and for you helping out but what's

1090  
00:44:22,679 --> 00:44:26,369  
going on here tonight what makes the

1091  
00:44:24,449 --> 00:44:29,489  
moment we went wow this is just rocking

1092  
00:44:26,369 --> 00:44:31,619  
the house science-wise it's it's a safe

1093  
00:44:29,489 --> 00:44:32,819  
I worked in live music videos and

1094  
00:44:31,619 --> 00:44:34,500  
there's this moment

1095  
00:44:32,820 --> 00:44:35,670  
and you don't know whether people going

1096  
00:44:34,500 --> 00:44:37,469  
to come to your gig and then you look

1097  
00:44:35,670 --> 00:44:39,450  
around and they're all arriving at you

1098  
00:44:37,469 --> 00:44:40,980  
know at the start and that happened

1099  
00:44:39,449 --> 00:44:42,119  
tonight I looked around and their orders

1100  
00:44:40,980 --> 00:44:44,099  
coming in the door like it was a

1101  
00:44:42,119 --> 00:44:46,259  
perfectly normal thing to do on a

1102  
00:44:44,099 --> 00:44:47,819  
Wednesday night to rock up to a place to

1103  
00:44:46,260 --> 00:44:49,380  
listen to scientists blabbering on and

1104  
00:44:47,820 --> 00:44:51,330  
they're all coming in all excited and

1105  
00:44:49,380 --> 00:44:53,039  
ready for it and buying their beers like

1106  
00:44:51,329 --> 00:44:55,079  
like it was not yeah look I must mention

1107  
00:44:53,039 --> 00:44:56,489  
in Newcastle I'm a Wednesday night the

1108  
00:44:55,079 --> 00:44:58,590  
uni students that's the night they go

1109  
00:44:56,489 --> 00:45:00,509  
out drinking and normally by that

1110  
00:44:58,590 --> 00:45:02,309  
midnight everyone has really / that's

1111  
00:45:00,510 --> 00:45:03,990  
when most relationships start because

1112

00:45:02,309 --> 00:45:05,519  
people they don't try dating they just

1113  
00:45:03,989 --> 00:45:07,049  
get drunk and see how it goes that that

1114  
00:45:05,519 --> 00:45:08,130  
is kind of the culture here and it was

1115  
00:45:07,050 --> 00:45:09,810  
great to see people talking about

1116  
00:45:08,130 --> 00:45:11,519  
science early on a Wednesday evening

1117  
00:45:09,809 --> 00:45:12,750  
they will they're probably going going

1118  
00:45:11,519 --> 00:45:15,449  
home and sort of starting relationships

1119  
00:45:12,750 --> 00:45:16,739  
now that perhaps by next Wednesday we

1120  
00:45:15,449 --> 00:45:18,419  
could predict they end I don't know

1121  
00:45:16,739 --> 00:45:20,279  
scientifically predict that they could

1122  
00:45:18,420 --> 00:45:21,960  
end my next winter now is any chances

1123  
00:45:20,280 --> 00:45:23,280  
being more regular in Newcastle have you

1124  
00:45:21,960 --> 00:45:25,710  
got us an inside running on whether this

1125  
00:45:23,280 --> 00:45:27,030  
could happen again the everyone I've

1126  
00:45:25,710 --> 00:45:29,039

spoken to since is finish tonight

1127

00:45:27,030 --> 00:45:30,450

scientists and the various Panthers have

1128

00:45:29,039 --> 00:45:31,769

all said we want to do more of this

1129

00:45:30,449 --> 00:45:33,509

there should be more of this this should

1130

00:45:31,769 --> 00:45:35,429

happen yet every month and so there's a

1131

00:45:33,510 --> 00:45:37,710

lot of enthusiasm so we'll see what we

1132

00:45:35,429 --> 00:45:39,480

can do about doing doing this more

1133

00:45:37,710 --> 00:45:41,280

actually ABC support has been great

1134

00:45:39,480 --> 00:45:43,710

that's that's a really really good thing

1135

00:45:41,280 --> 00:45:46,460

Jill was Jill was a Sarge of Emerson

1136

00:45:43,710 --> 00:45:46,460

she's a genius

1137

00:46:00,530 --> 00:46:07,080

ning xia short industry skeptic zone

1138

00:46:03,480 --> 00:46:11,490

watch elisa o'meara one juice kept I

1139

00:46:07,079 --> 00:46:14,759

talk on da CA n sceptile shaker crucial

1140

00:46:11,489 --> 00:46:17,159

a podcast llamo o mamita with hardened

1141  
00:46:14,760 --> 00:46:20,490  
sinner hearty pocket and Helios

1142  
00:46:17,159 --> 00:46:24,000  
intertwined solution in mulund rajesh

1143  
00:46:20,489 --> 00:46:26,669  
attention chatty Lana cncl link Li Dao

1144  
00:46:24,000 --> 00:46:29,219  
itunes the chihuahua jan sad sigh

1145  
00:46:26,670 --> 00:46:34,130  
escaped toi photo chiffon well one of

1146  
00:46:29,219 --> 00:46:34,129  
the ones skeptic how does the end

1147  
00:46:34,150 --> 00:46:39,818  
thus kept I'd science podcast by brian

1148  
00:46:37,420 --> 00:46:42,309  
dunning is now available for Chinese

1149  
00:46:39,818 --> 00:46:45,880  
audience please tell your Chinese

1150  
00:46:42,309 --> 00:46:48,730  
friends to visit skipped item the CN a

1151  
00:46:45,880 --> 00:46:54,960  
fine skip toyed and the Chinese itunes

1152  
00:46:48,730 --> 00:46:54,960  
door i'm lisa from skeptic on the CN

1153  
00:47:12,630 --> 00:47:17,260  
joining me on the line from the

1154  
00:47:14,769 --> 00:47:19,929  
beautiful city of Adelaide the wine

1155  
00:47:17,260 --> 00:47:22,900  
capital of Australia is a man who enjoys

1156  
00:47:19,929 --> 00:47:25,088  
a dropper to dr. Paul Willis you know

1157  
00:47:22,900 --> 00:47:26,680  
mate how are you I'm doing really well

1158  
00:47:25,088 --> 00:47:29,409  
pull it's good to catch up with you

1159  
00:47:26,679 --> 00:47:31,358  
again I'm sorry you left Sydney sometime

1160  
00:47:29,409 --> 00:47:33,250  
back now of course but I think you're

1161  
00:47:31,358 --> 00:47:35,588  
having a pretty good time in Adelaide oh

1162  
00:47:33,250 --> 00:47:37,358  
look i grew up in Sydney I do love

1163  
00:47:35,588 --> 00:47:39,099  
Sydney book i can tell you living in

1164  
00:47:37,358 --> 00:47:42,098  
adelaide sydney is a terrific place to

1165  
00:47:39,099 --> 00:47:44,019  
be from Adelaide Adelaide is a beautiful

1166  
00:47:42,099 --> 00:47:46,510  
town and I'm certainly enjoying my time

1167  
00:47:44,019 --> 00:47:50,289  
here not only because it's a wonderful

1168  
00:47:46,510 --> 00:47:51,490  
city to live in but also because the job

1169

00:47:50,289 --> 00:47:54,400  
that I've got here at the royal

1170  
00:47:51,489 --> 00:47:57,368  
institution is just well it's as if they

1171  
00:47:54,400 --> 00:47:59,019  
invented it for me and you know I've

1172  
00:47:57,369 --> 00:48:03,280  
just had the opportunity to do

1173  
00:47:59,019 --> 00:48:06,099  
interesting new fun stuff and um well

1174  
00:48:03,280 --> 00:48:07,599  
you know it's not every day in your

1175  
00:48:06,099 --> 00:48:09,670  
professional life you given a clean

1176  
00:48:07,599 --> 00:48:11,800  
sheet of paper and so go ahead draw

1177  
00:48:09,670 --> 00:48:13,720  
whatever you like in that safe we're

1178  
00:48:11,800 --> 00:48:15,940  
having a lot of fun that sounds terrific

1179  
00:48:13,719 --> 00:48:18,419  
and I know that you're very active

1180  
00:48:15,940 --> 00:48:20,619  
online because I see your tweets

1181  
00:48:18,420 --> 00:48:21,818  
constantly you're constantly tweeting

1182  
00:48:20,619 --> 00:48:23,890  
about what's happening at the Royal

1183  
00:48:21,818 --> 00:48:26,289

Institute how's that all going with the

1184

00:48:23,889 --> 00:48:28,568

online stuff well the thing is is that

1185

00:48:26,289 --> 00:48:30,369

we've realized that in this day and age

1186

00:48:28,568 --> 00:48:33,130

if you've got a limited budget and

1187

00:48:30,369 --> 00:48:35,289

you're a national organization the

1188

00:48:33,130 --> 00:48:39,400

easiest way to service the nation is

1189

00:48:35,289 --> 00:48:42,068

online and so we are pretty much focused

1190

00:48:39,400 --> 00:48:45,220

now on producing online material that

1191

00:48:42,068 --> 00:48:48,159

people can engage with so if we hold an

1192

00:48:45,219 --> 00:48:50,199

event in our auditorium we live stream

1193

00:48:48,159 --> 00:48:52,629

it and we get people not just across the

1194

00:48:50,199 --> 00:48:55,419

country but around the world following

1195

00:48:52,630 --> 00:48:56,800

in real time those presentations and

1196

00:48:55,420 --> 00:48:59,588

they're actually able to interact

1197

00:48:56,800 --> 00:49:00,970

through Twitter and and through the chat

1198  
00:48:59,588 --> 00:49:03,670  
rooms so that they can actually ask

1199  
00:49:00,969 --> 00:49:07,149  
questions you know last year let me give

1200  
00:49:03,670 --> 00:49:10,389  
you an example last year we had a live

1201  
00:49:07,150 --> 00:49:12,910  
chat via video link to Antarctica

1202  
00:49:10,389 --> 00:49:16,328  
Morton vase and that conversation

1203  
00:49:12,909 --> 00:49:20,078  
between me and Adelaide and and the guys

1204  
00:49:16,329 --> 00:49:22,000  
in Morton base we relied that live to

1205  
00:49:20,079 --> 00:49:24,220  
the Internet in high definition it was

1206  
00:49:22,000 --> 00:49:27,250  
picked up across the country it was also

1207  
00:49:24,219 --> 00:49:29,679  
picked up in France Canada England and

1208  
00:49:27,250 --> 00:49:32,469  
the United States and we had people in

1209  
00:49:29,679 --> 00:49:35,348  
those countries tweeting questions back

1210  
00:49:32,469 --> 00:49:38,379  
to me to ask of Antarctica so we were

1211  
00:49:35,349 --> 00:49:42,849  
able to hold a live for continent-wide

1212  
00:49:38,380 --> 00:49:44,858  
event from this facility so you know

1213  
00:49:42,849 --> 00:49:47,619  
that's one way that we're able to

1214  
00:49:44,858 --> 00:49:49,509  
exploit the online environment to meet

1215  
00:49:47,619 --> 00:49:52,568  
our mission of taking science for the

1216  
00:49:49,510 --> 00:49:54,549  
people it's wonderful Paula know and I

1217  
00:49:52,568 --> 00:49:57,960  
think of myself every now and then I

1218  
00:49:54,548 --> 00:50:00,548  
like living in the future it's quite fun

1219  
00:49:57,960 --> 00:50:02,769  
well you know but also the opportunities

1220  
00:50:00,548 --> 00:50:05,259  
that we had to put out vodka laughs you

1221  
00:50:02,768 --> 00:50:07,929  
know we've got all the recording

1222  
00:50:05,260 --> 00:50:10,900  
equipment here we've got it essentially

1223  
00:50:07,929 --> 00:50:13,419  
a five camera high-definition robotics

1224  
00:50:10,900 --> 00:50:15,940  
to do so we can pull together things

1225  
00:50:13,420 --> 00:50:18,220  
like vodka is really easily and and the

1226

00:50:15,940 --> 00:50:20,858  
vodcast that we're currently putting out

1227  
00:50:18,219 --> 00:50:24,669  
a week in science is going gangbusters

1228  
00:50:20,858 --> 00:50:27,670  
it's really taking off and you know

1229  
00:50:24,670 --> 00:50:29,710  
again an easy way to be able to to get

1230  
00:50:27,670 --> 00:50:31,450  
the messages of science out not just

1231  
00:50:29,710 --> 00:50:33,449  
it's not just picked up across Australia

1232  
00:50:31,449 --> 00:50:36,399  
it's picked up around the world now and

1233  
00:50:33,449 --> 00:50:39,868  
you know this is the future and and the

1234  
00:50:36,400 --> 00:50:42,309  
the the thing that impresses me about

1235  
00:50:39,869 --> 00:50:44,470  
moving over to the Royal Institution

1236  
00:50:42,309 --> 00:50:46,809  
looking at new ways of doing things is

1237  
00:50:44,469 --> 00:50:48,489  
that the future of the media the

1238  
00:50:46,809 --> 00:50:51,220  
difference that a lot of people haven't

1239  
00:50:48,489 --> 00:50:53,828  
picked up is the old media the

1240  
00:50:51,219 --> 00:50:57,278

television stations and newspapers the

1241

00:50:53,829 --> 00:50:59,710

radio the old forms of media the basis

1242

00:50:57,278 --> 00:51:01,719

of their economies was money it was

1243

00:50:59,710 --> 00:51:03,460

about bums on seats and getting the

1244

00:51:01,719 --> 00:51:05,939

advertising revenue in it was a

1245

00:51:03,460 --> 00:51:09,818

money-based venture it was a business

1246

00:51:05,940 --> 00:51:13,509

whereas when we go online it chat

1247

00:51:09,818 --> 00:51:15,969

transfers from being money so ideas

1248

00:51:13,509 --> 00:51:18,789

being the basis of the that economy and

1249

00:51:15,969 --> 00:51:22,000

so whoever puts out the most interesting

1250

00:51:18,789 --> 00:51:23,869

ideas and the most accessible ideas they

1251

00:51:22,000 --> 00:51:26,298

are the ones who are going to take the

1252

00:51:23,869 --> 00:51:28,849

lead in that marketplace so you know

1253

00:51:26,298 --> 00:51:31,150

being able to to be a traitor in the

1254

00:51:28,849 --> 00:51:33,829

market of ideas I find that absolutely

1255  
00:51:31,150 --> 00:51:35,960  
invigorating what a fabulous that's a

1256  
00:51:33,829 --> 00:51:39,470  
fabulous way a fabulous outlook I think

1257  
00:51:35,960 --> 00:51:42,019  
to to take advantage of what is thought

1258  
00:51:39,469 --> 00:51:44,268  
to all of us it's still new I mean to

1259  
00:51:42,018 --> 00:51:45,979  
younger kids growing up now it's it's

1260  
00:51:44,268 --> 00:51:48,828  
what they've always known but for us old

1261  
00:51:45,980 --> 00:51:51,139  
fossils so to speak who we remember when

1262  
00:51:48,829 --> 00:51:53,930  
all this was coming about oh don't run

1263  
00:51:51,139 --> 00:51:55,548  
yourself down too far Richard you know

1264  
00:51:53,929 --> 00:51:58,639  
they me I mean look at what you're doing

1265  
00:51:55,548 --> 00:52:01,608  
with this podcast you know this is this

1266  
00:51:58,639 --> 00:52:04,879  
is you being able to take control of the

1267  
00:52:01,608 --> 00:52:07,098  
media and put your messages out directly

1268  
00:52:04,880 --> 00:52:08,960  
to your audience that's true you know

1269  
00:52:07,099 --> 00:52:11,509  
and you've only got to go back 10 years

1270  
00:52:08,960 --> 00:52:13,159  
that was impossible if you wanted to

1271  
00:52:11,509 --> 00:52:16,789  
talk to an audience you had to go

1272  
00:52:13,159 --> 00:52:18,618  
through a media corporation you had to

1273  
00:52:16,789 --> 00:52:21,259  
go through a television station or a

1274  
00:52:18,619 --> 00:52:23,539  
radio station or a newspaper that the

1275  
00:52:21,259 --> 00:52:25,849  
message ceased to be yours it was

1276  
00:52:23,539 --> 00:52:29,059  
filtered through what they wanted to do

1277  
00:52:25,849 --> 00:52:32,480  
in order to not get your ideas across

1278  
00:52:29,059 --> 00:52:35,749  
but in order to make money yeah and so

1279  
00:52:32,480 --> 00:52:37,969  
you know you and I are on the crest of a

1280  
00:52:35,748 --> 00:52:41,899  
wave here and this is the wave of the

1281  
00:52:37,969 --> 00:52:44,899  
future for the media it's all about good

1282  
00:52:41,900 --> 00:52:47,329  
ideas and so you know strength to your

1283

00:52:44,900 --> 00:52:50,180  
podcast strength to our vodcast it's all

1284  
00:52:47,329 --> 00:52:52,220  
about taking those ideas directly to the

1285  
00:52:50,179 --> 00:52:54,588  
people who are interested in those ideas

1286  
00:52:52,219 --> 00:52:56,268  
but talking about the old fashioned

1287  
00:52:54,588 --> 00:52:58,130  
media for a moment we can think that

1288  
00:52:56,268 --> 00:53:00,318  
ancient technology called television

1289  
00:52:58,130 --> 00:53:03,079  
here I was sitting at home the other day

1290  
00:53:00,318 --> 00:53:05,150  
quite comfortable on my couch channel

1291  
00:53:03,079 --> 00:53:09,470  
surfing and what do I see you're beaming

1292  
00:53:05,150 --> 00:53:10,999  
face come up thank you very much many

1293  
00:53:09,469 --> 00:53:14,808  
people have commented how similar you

1294  
00:53:10,998 --> 00:53:16,608  
and I are yeah that's true now there are

1295  
00:53:14,809 --> 00:53:19,369  
you I knew you were coming up now you

1296  
00:53:16,608 --> 00:53:22,608  
were on the ABC or on a nationwide

1297  
00:53:19,369 --> 00:53:25,579

program news24 yeah that's right there

1298

00:53:22,608 --> 00:53:26,929

the 24-hour news network talking about

1299

00:53:25,579 --> 00:53:29,480

something which I find intensely

1300

00:53:26,929 --> 00:53:32,719

interesting and I always have dinosaurs

1301

00:53:29,480 --> 00:53:35,929

but specifically the extinction event

1302

00:53:32,719 --> 00:53:41,809

and new research yeah

1303

00:53:35,929 --> 00:53:43,339

um wasn't I fabulous oh I could I

1304

00:53:41,809 --> 00:53:45,139

recorded it so I could watch it again

1305

00:53:43,340 --> 00:53:49,070

and again as I keep having to say fig

1306

00:53:45,139 --> 00:53:50,869

jam look the thing with what that story

1307

00:53:49,070 --> 00:53:53,240

was all about is it's a great piece of

1308

00:53:50,869 --> 00:53:58,400

research essentially you know we've

1309

00:53:53,239 --> 00:54:00,409

known for the last 30 years that around

1310

00:53:58,400 --> 00:54:02,200

the time the dinosaurs disappeared the

1311

00:54:00,409 --> 00:54:05,750

earth was whacked by a large meteorite

1312  
00:54:02,199 --> 00:54:07,909  
now the main school of thought said the

1313  
00:54:05,750 --> 00:54:10,130  
meteorite did it the meteorite was the

1314  
00:54:07,909 --> 00:54:11,359  
reason why the dinosaurs and virtually

1315  
00:54:10,130 --> 00:54:13,849  
everything else on the planet went

1316  
00:54:11,360 --> 00:54:15,590  
extinct but there was a dissenting group

1317  
00:54:13,849 --> 00:54:17,989  
and they had some evidence to back them

1318  
00:54:15,590 --> 00:54:20,210  
up themselves up that said the trouble

1319  
00:54:17,989 --> 00:54:23,259  
with that scenario is the meteorite

1320  
00:54:20,210 --> 00:54:26,840  
appears to have hit about 300,000 years

1321  
00:54:23,260 --> 00:54:29,690  
before the dinosaurs disappear and so

1322  
00:54:26,840 --> 00:54:31,400  
therefore you know the link between the

1323  
00:54:29,690 --> 00:54:34,789  
meteorite impact and the dinosaurs

1324  
00:54:31,400 --> 00:54:36,889  
disappearing is a little less clear than

1325  
00:54:34,789 --> 00:54:40,219  
than the other camp would have you

1326  
00:54:36,889 --> 00:54:42,079  
believe it again yeah it is quite a gap

1327  
00:54:40,219 --> 00:54:45,019  
and a large part of that was because

1328  
00:54:42,079 --> 00:54:48,230  
well the the crater that they've found

1329  
00:54:45,019 --> 00:54:50,780  
which they believe is the crater of the

1330  
00:54:48,230 --> 00:54:53,150  
impact the Chicxulub crater on the

1331  
00:54:50,780 --> 00:54:55,820  
Yucatan Peninsula it's under about a

1332  
00:54:53,150 --> 00:54:58,309  
kilometer of rock and so you can only

1333  
00:54:55,820 --> 00:55:00,470  
study it by drilling down through it all

1334  
00:54:58,309 --> 00:55:02,929  
by doing seismic work and looking at the

1335  
00:55:00,469 --> 00:55:05,689  
reflected waves that couldn't bounce

1336  
00:55:02,929 --> 00:55:09,500  
back off of it and when you drill down

1337  
00:55:05,690 --> 00:55:13,070  
it you can actually find stuff inside

1338  
00:55:09,500 --> 00:55:16,610  
the crater which is older than the age

1339  
00:55:13,070 --> 00:55:20,840  
of the dinosaurs went extinct by about

1340

00:55:16,610 --> 00:55:25,070  
300,000 years right right now what it

1341  
00:55:20,840 --> 00:55:27,110  
appears now is that that older stuff in

1342  
00:55:25,070 --> 00:55:30,260  
the bottom of the crater is stuff that

1343  
00:55:27,110 --> 00:55:33,590  
slump down after the crater formed so

1344  
00:55:30,260 --> 00:55:35,600  
you had the edge of the crater and then

1345  
00:55:33,590 --> 00:55:37,039  
some older stuff from the edge of the

1346  
00:55:35,599 --> 00:55:40,130  
crater slumps down to the bottom and

1347  
00:55:37,039 --> 00:55:43,070  
appears to be on top of the impact

1348  
00:55:40,130 --> 00:55:45,200  
itself and that artificially makes it

1349  
00:55:43,070 --> 00:55:48,140  
look like the crater is 300,000 years

1350  
00:55:45,199 --> 00:55:49,139  
older than it really is so what what

1351  
00:55:48,139 --> 00:55:51,449  
there's recent

1352  
00:55:49,139 --> 00:55:53,608  
daddy did was it went back and it looked

1353  
00:55:51,449 --> 00:55:55,949  
through all of the data it went through

1354  
00:55:53,608 --> 00:55:59,038

all the dating of the crater itself as

1355

00:55:55,949 --> 00:56:00,989  
well as looking at the rates of

1356

00:55:59,039 --> 00:56:02,760  
extinction amongst the dinosaurs and

1357

00:56:00,989 --> 00:56:05,788  
loads of other groups of organisms and

1358

00:56:02,760 --> 00:56:08,549  
said no look that 300,000 year gap

1359

00:56:05,789 --> 00:56:11,640  
doesn't exist if anything there's a gap

1360

00:56:08,548 --> 00:56:15,509  
of maybe 30,000 years which in

1361

00:56:11,639 --> 00:56:19,588  
geological terms is an instant so you

1362

00:56:15,510 --> 00:56:21,799  
know essentially it's not overturned our

1363

00:56:19,588 --> 00:56:24,538  
understanding it's refined our

1364

00:56:21,798 --> 00:56:26,969  
understanding of what happened the

1365

00:56:24,539 --> 00:56:28,528  
dinosaurs do seem to have been suffering

1366

00:56:26,969 --> 00:56:30,629  
some groups of dinosaurs more than

1367

00:56:28,528 --> 00:56:32,849  
others do seem to have been suffering

1368

00:56:30,630 --> 00:56:35,430  
for a few million years prior to that

1369  
00:56:32,849 --> 00:56:37,380  
impact but that impact was the coup de

1370  
00:56:35,429 --> 00:56:41,098  
Gras that was what wiped then and

1371  
00:56:37,380 --> 00:56:44,760  
something like 70 odd percent of species

1372  
00:56:41,099 --> 00:56:46,650  
on the planet out yes and as we know it

1373  
00:56:44,760 --> 00:56:49,109  
happens periodically through Earth's

1374  
00:56:46,650 --> 00:56:51,539  
history hmmm and of course the the thing

1375  
00:56:49,108 --> 00:56:53,969  
in the back of our mind is well one day

1376  
00:56:51,539 --> 00:56:56,400  
is our friend dr. Phil Plait says it's

1377  
00:56:53,969 --> 00:56:59,338  
not a question of if it'll happen again

1378  
00:56:56,400 --> 00:57:02,759  
it's a question of when well you know if

1379  
00:56:59,338 --> 00:57:05,038  
it was a betting proposition odd I'd

1380  
00:57:02,759 --> 00:57:07,759  
prefer to be betting on drugs and sport

1381  
00:57:05,039 --> 00:57:10,680  
you know there's much greater certainty

1382  
00:57:07,759 --> 00:57:15,088  
that it's going to happen within our

1383  
00:57:10,679 --> 00:57:18,528  
lifetimes the idea of a meteorite here I

1384  
00:57:15,088 --> 00:57:21,980  
mean this tomorrow morning I believe

1385  
00:57:18,528 --> 00:57:30,509  
we're going to have a fly part of

1386  
00:57:21,980 --> 00:57:32,880  
asteroid 2012 da14 and that's going to

1387  
00:57:30,509 --> 00:57:35,099  
pass within something like twenty six

1388  
00:57:32,880 --> 00:57:39,539  
thousand kilometres of the earth now

1389  
00:57:35,099 --> 00:57:41,910  
that's only 15 metres across if it hit

1390  
00:57:39,539 --> 00:57:44,460  
the earth look if it was a king hit on a

1391  
00:57:41,909 --> 00:57:47,129  
major city yeah it would cause a bit of

1392  
00:57:44,460 --> 00:57:48,838  
problems it would create it you you'll

1393  
00:57:47,130 --> 00:57:52,710  
be saying goodbye to a few thousand

1394  
00:57:48,838 --> 00:57:55,078  
people but that's not the sort of impact

1395  
00:57:52,710 --> 00:57:58,528  
that we're talking about where the wiped

1396  
00:57:55,079 --> 00:58:00,630  
out the dinosaurs the meteorite that

1397

00:57:58,528 --> 00:58:03,269  
will hit the earth then back at the

1398  
00:58:00,630 --> 00:58:05,160  
end of the Cretaceous wasn't 15 meters

1399  
00:58:03,269 --> 00:58:08,219  
across it was something like ten

1400  
00:58:05,159 --> 00:58:09,960  
kilometres across and when you've got

1401  
00:58:08,219 --> 00:58:11,869  
something that big you're talking about

1402  
00:58:09,960 --> 00:58:15,090  
something much bigger than Mount Everest

1403  
00:58:11,869 --> 00:58:17,190  
when that slams into the earth traveling

1404  
00:58:15,090 --> 00:58:19,920  
at an average speed of about fifty

1405  
00:58:17,190 --> 00:58:22,260  
thousand kilometres an hour the energy

1406  
00:58:19,920 --> 00:58:24,840  
released is absolutely enormous you're

1407  
00:58:22,260 --> 00:58:27,000  
talking about the equivalent of a hora

1408  
00:58:24,840 --> 00:58:29,910  
from a bomb for every man woman and

1409  
00:58:27,000 --> 00:58:33,329  
child on the planet today with a billion

1410  
00:58:29,909 --> 00:58:35,519  
spare you release that you release that

1411  
00:58:33,329 --> 00:58:37,409

much energy you're going to cause a lot

1412

00:58:35,519 --> 00:58:39,269

of trouble you're going to vaporize you

1413

00:58:37,409 --> 00:58:41,250

know virtually everything within 2,000

1414

00:58:39,269 --> 00:58:42,750

kilometers of the impact site you're

1415

00:58:41,250 --> 00:58:46,050

going to incinerate everything within

1416

00:58:42,750 --> 00:58:49,829

five thousand kilometers the soot and

1417

00:58:46,050 --> 00:58:52,289

dust that those fires we with into the

1418

00:58:49,829 --> 00:58:54,029

impact zone are going to spread because

1419

00:58:52,289 --> 00:58:56,009

material is going to be blown back out

1420

00:58:54,030 --> 00:58:58,710

into the app into above the atmosphere

1421

00:58:56,010 --> 00:59:00,060

and come down as burning masses all

1422

00:58:58,710 --> 00:59:01,920

around the world so you're going to set

1423

00:59:00,059 --> 00:59:04,019

off fires right the way around the

1424

00:59:01,920 --> 00:59:06,300

planet you're going to set off so much

1425

00:59:04,019 --> 00:59:07,860

ash into the atmosphere that you're

1426  
00:59:06,300 --> 00:59:10,860  
going to block out sunlight to the

1427  
00:59:07,860 --> 00:59:13,079  
planet probably four months possibly

1428  
00:59:10,860 --> 00:59:15,900  
four years if you cut out sunlight

1429  
00:59:13,079 --> 00:59:17,909  
plants can't grow if plants can't grow

1430  
00:59:15,900 --> 00:59:19,789  
plant eaters die if plant-eaters dying

1431  
00:59:17,909 --> 00:59:24,179  
media's die the whole food chain

1432  
00:59:19,789 --> 00:59:26,730  
collapses so you know well you might

1433  
00:59:24,179 --> 00:59:28,259  
have some cause for concern for tomorrow

1434  
00:59:26,730 --> 00:59:31,139  
morning when this little thing and

1435  
00:59:28,260 --> 00:59:32,820  
buzzes past believe me unless you're

1436  
00:59:31,139 --> 00:59:34,619  
right underneath it and it's not going

1437  
00:59:32,820 --> 00:59:36,690  
to hit the earth anyway even if you were

1438  
00:59:34,619 --> 00:59:38,670  
right underneath it chances are it would

1439  
00:59:36,690 --> 00:59:41,159  
be nothing like what the dinosaurs had

1440  
00:59:38,670 --> 00:59:43,470  
to put up with well I'm quite surprised

1441  
00:59:41,159 --> 00:59:45,690  
the way you talk about the size of the

1442  
00:59:43,469 --> 00:59:49,730  
thing and the energy released at the

1443  
00:59:45,690 --> 00:59:52,619  
time and the damage that some dinosaurs

1444  
00:59:49,730 --> 00:59:55,769  
managed to hang on after such an

1445  
00:59:52,619 --> 00:59:58,849  
incredible event what look at this is

1446  
00:59:55,769 --> 01:00:02,039  
that the the the real problem of

1447  
00:59:58,849 --> 01:00:04,860  
explaining a mass extinction is not so

1448  
01:00:02,039 --> 01:00:06,690  
much how you wipe everything out but how

1449  
01:00:04,860 --> 01:00:09,420  
the things that get through survive

1450  
01:00:06,690 --> 01:00:13,050  
that's the real that's the trickiest

1451  
01:00:09,420 --> 01:00:15,659  
part it's easy to wipe everything out

1452  
01:00:13,050 --> 01:00:18,090  
you know no problem but how do you

1453  
01:00:15,659 --> 01:00:21,629  
actually have a scenario where a few

1454

01:00:18,090 --> 01:00:23,880  
things survive because yes one group of

1455  
01:00:21,630 --> 01:00:26,160  
dinosaurs survived the birds you also

1456  
01:00:23,880 --> 01:00:28,110  
had the mammals survived you had lizards

1457  
01:00:26,159 --> 01:00:31,289  
he had snakes you had turtles you had

1458  
01:00:28,110 --> 01:00:33,450  
crocodiles you had frogs you had a

1459  
01:00:31,289 --> 01:00:35,460  
number of different types of fish and

1460  
01:00:33,449 --> 01:00:39,480  
corals and all sorts of invertebrates

1461  
01:00:35,460 --> 01:00:43,470  
how do I get through when everything

1462  
01:00:39,480 --> 01:00:45,990  
else disappears and the part of the

1463  
01:00:43,469 --> 01:00:47,909  
answer is there's three things that

1464  
01:00:45,989 --> 01:00:50,849  
particularly vertebrates have in common

1465  
01:00:47,909 --> 01:00:53,489  
that survived that extinction one is

1466  
01:00:50,849 --> 01:00:55,619  
they were all small nothing over 25

1467  
01:00:53,489 --> 01:01:00,289  
kilograms in mass as an adult got

1468  
01:00:55,619 --> 01:01:02,609

through Wow secondly they all heard were

1469

01:01:00,289 --> 01:01:04,529

generalist feeders in other words they

1470

01:01:02,610 --> 01:01:06,120

weren't tied to a particular food source

1471

01:01:04,530 --> 01:01:09,510

i geti anything that was going around

1472

01:01:06,119 --> 01:01:12,359

and thirdly most of them had some

1473

01:01:09,510 --> 01:01:14,640

capacity to go into torpor when things

1474

01:01:12,360 --> 01:01:16,890

go bad so they could hibernate they

1475

01:01:14,639 --> 01:01:20,699

could go shut their systems down and

1476

01:01:16,889 --> 01:01:24,539

then wake up when things got better so

1477

01:01:20,699 --> 01:01:26,519

those three factors together allow just

1478

01:01:24,539 --> 01:01:30,659

enough of those particular groups to get

1479

01:01:26,519 --> 01:01:33,449

through whereas you know as a seven-ton

1480

01:01:30,659 --> 01:01:35,399

triceratops has got nowhere to hide it

1481

01:01:33,449 --> 01:01:38,879

needs a constant supply of food which

1482

01:01:35,400 --> 01:01:42,450

disappears you know it's a goner it's no

1483  
01:01:38,880 --> 01:01:45,180  
hope so yeah it's a fascinating

1484  
01:01:42,449 --> 01:01:47,819  
speculations how you survive an event

1485  
01:01:45,179 --> 01:01:51,210  
like that I'll by the way just reflect

1486  
01:01:47,820 --> 01:01:53,430  
on that 25 kilograms in mass and humans

1487  
01:01:51,210 --> 01:01:55,170  
are pretty much above that can eat

1488  
01:01:53,429 --> 01:01:57,690  
anything yeah we can eat anything you

1489  
01:01:55,170 --> 01:02:00,780  
know we could glue in Solomon's going to

1490  
01:01:57,690 --> 01:02:02,970  
tour patent that no not so you had two

1491  
01:02:00,780 --> 01:02:06,240  
strikes out of three I don't think would

1492  
01:02:02,969 --> 01:02:08,339  
survive an impact like that I would we

1493  
01:02:06,239 --> 01:02:10,079  
wanted that's another question who we

1494  
01:02:08,340 --> 01:02:11,700  
wanted maybe we could let the dinosaur's

1495  
01:02:10,079 --> 01:02:14,190  
cave go ahead but look on the bright

1496  
01:02:11,699 --> 01:02:15,929  
side no Justin Bieber well that there is

1497  
01:02:14,190 --> 01:02:17,519  
a good side to everything every cloud

1498  
01:02:15,929 --> 01:02:19,440  
has a silver lining I won't tell my

1499  
01:02:17,519 --> 01:02:22,139  
niece is that they're mad on Justin

1500  
01:02:19,440 --> 01:02:23,800  
Bieber folks this is the sort of things

1501  
01:02:22,139 --> 01:02:25,480  
that is an everyday occurrence

1502  
01:02:23,800 --> 01:02:26,860  
said the Royal Institute not impacts

1503  
01:02:25,480 --> 01:02:29,409  
hitting it or anything like that but

1504  
01:02:26,860 --> 01:02:31,960  
talking about it exploring it discussing

1505  
01:02:29,409 --> 01:02:33,219  
it investigating it and something dr.

1506  
01:02:31,960 --> 01:02:35,500  
Paul Willis has been doing for many

1507  
01:02:33,219 --> 01:02:38,319  
years not only on television but now

1508  
01:02:35,500 --> 01:02:40,210  
down at the Royal Institute Paul how can

1509  
01:02:38,320 --> 01:02:46,390  
people hook up with you check out our

1510  
01:02:40,210 --> 01:02:48,369  
website rias us that's RI org dot au and

1511

01:02:46,389 --> 01:02:51,759  
there's all sorts of things you can do

1512  
01:02:48,369 --> 01:02:55,210  
there particularly subscribe to our

1513  
01:02:51,760 --> 01:03:00,160  
podcast every week on a Friday we put

1514  
01:02:55,210 --> 01:03:03,369  
out a 34 minutes summary of the the best

1515  
01:03:00,159 --> 01:03:06,250  
news in science for the week and you

1516  
01:03:03,369 --> 01:03:08,319  
know you can watch it on your iPhone so

1517  
01:03:06,250 --> 01:03:10,360  
on on your way home from work on a

1518  
01:03:08,320 --> 01:03:12,760  
Friday night you can catch up with the

1519  
01:03:10,360 --> 01:03:14,620  
best and brightest of science news just

1520  
01:03:12,760 --> 01:03:16,050  
by watching our vodcast there's all

1521  
01:03:14,619 --> 01:03:18,730  
sorts of other ways you can participate

1522  
01:03:16,050 --> 01:03:21,130  
get involved with the live streams of

1523  
01:03:18,730 --> 01:03:22,480  
our events so that you can actually you

1524  
01:03:21,130 --> 01:03:24,579  
know doesn't matter where you are in the

1525  
01:03:22,480 --> 01:03:26,500

country you can still be part of the

1526

01:03:24,579 --> 01:03:29,289

audience here in adelaide all sorts of

1527

01:03:26,500 --> 01:03:31,090

fun ways go to the website or indeed

1528

01:03:29,289 --> 01:03:35,710

anywhere in the world indeed most

1529

01:03:31,090 --> 01:03:37,120

definitely in Antarctica even though i'm

1530

01:03:35,710 --> 01:03:38,710

very jealous you've been there are a

1531

01:03:37,119 --> 01:03:43,230

number of times over one day i'll get

1532

01:03:38,710 --> 01:03:46,179

down yeah it's cold I so I understand

1533

01:03:43,230 --> 01:03:49,929

another another little gym oh and always

1534

01:03:46,179 --> 01:03:51,849

good for the inside information all

1535

01:03:49,929 --> 01:03:54,369

power to you dr. Paul Willis I hope one

1536

01:03:51,849 --> 01:03:56,799

day soon I can come down and we'll maybe

1537

01:03:54,369 --> 01:03:58,509

even get a personal tour you'll be most

1538

01:03:56,800 --> 01:04:01,480

welcome for a personal tour because I do

1539

01:03:58,510 --> 01:04:05,140

believe you owe me a beer at least one

1540  
01:04:01,480 --> 01:04:07,349  
dr. pol was haha thanks very much Cheers

1541  
01:04:05,139 --> 01:04:07,349  
mine

1542  
01:04:13,199 --> 01:04:17,859  
hey guys this is jay from the skeptics

1543  
01:04:16,030 --> 01:04:20,650  
guide to the universe er well hold on

1544  
01:04:17,860 --> 01:04:22,420  
whoa everybody knows I'm the only reason

1545  
01:04:20,650 --> 01:04:23,590  
to listen to the Freak Show right I mean

1546  
01:04:22,420 --> 01:04:30,340  
if it was up to me the show would start

1547  
01:04:23,590 --> 01:04:32,260  
with this yeah boy well Rebecca would

1548  
01:04:30,340 --> 01:04:33,970  
hate that probably but I mean I'd rock

1549  
01:04:32,260 --> 01:04:34,990  
that listen to our show and you can

1550  
01:04:33,969 --> 01:04:36,669  
learn about cool stuff like a

1551  
01:04:34,989 --> 01:04:38,439  
technological singularity which is

1552  
01:04:36,670 --> 01:04:39,940  
someday when technology progresses so

1553  
01:04:38,440 --> 01:04:41,320  
fast that it would make the Industrial

1554  
01:04:39,940 --> 01:04:44,349  
Revolution look like a kid science

1555  
01:04:41,320 --> 01:04:48,480  
project anyway come check us out at WWDC

1556  
01:04:44,349 --> 01:04:48,480  
epic sea org get your son

1557  
01:05:02,050 --> 01:05:06,620  
thank you for listening to the skeptic

1558  
01:05:04,699 --> 01:05:08,539  
zone and another thank you to those

1559  
01:05:06,619 --> 01:05:12,500  
people who contribute financially to the

1560  
01:05:08,539 --> 01:05:14,840  
skeptic zone even a dollar a week it's

1561  
01:05:12,500 --> 01:05:16,369  
fantastic so enough of people are

1562  
01:05:14,840 --> 01:05:18,079  
chipping a dollar a week it helps me

1563  
01:05:16,369 --> 01:05:20,299  
keep the show going and in fact just in

1564  
01:05:18,079 --> 01:05:23,239  
the last week I was able to buy another

1565  
01:05:20,300 --> 01:05:24,860  
one of our reporters travis roy travis

1566  
01:05:23,239 --> 01:05:27,199  
roy in new hampshire in the united

1567  
01:05:24,860 --> 01:05:29,510  
states i was able to buy him a lovely

1568

01:05:27,199 --> 01:05:31,429  
little hand recorder so he can do some

1569  
01:05:29,510 --> 01:05:34,190  
more reports for the skeptic zone and

1570  
01:05:31,429 --> 01:05:37,549  
that's all due to the generosity of

1571  
01:05:34,190 --> 01:05:42,380  
listeners just like you for more details

1572  
01:05:37,550 --> 01:05:44,660  
visit WWF techzone TV but for now this

1573  
01:05:42,380 --> 01:05:51,050  
is Richard Saunders signing off from

1574  
01:05:44,659 --> 01:05:55,269  
Sydney Australia you've been listening

1575  
01:05:51,050 --> 01:05:59,960  
to the skeptic zone visit her website at

1576  
01:05:55,269 --> 01:06:03,789  
www skeptics on TV for comments contacts

1577  
01:05:59,960 --> 01:06:03,789  
and extra video reports

1578  
01:06:11,809 --> 01:06:17,269  
have you all lost the plot call as a

1579  
01:06:14,849 --> 01:06:17,269  
block