

1  
00:00:05,929 --> 00:00:13,699  
welcome to the skeptic zone the podcast

2  
00:00:09,089 --> 00:00:13,699  
from Australia for science and reason

3  
00:00:24,379 --> 00:00:32,299  
yes it's the skeptic zone episode number

4  
00:00:27,980 --> 00:00:36,030  
131 for the twenty second of april 2011

5  
00:00:32,299 --> 00:00:38,030  
Richard Saunders here with you visiting

6  
00:00:36,030 --> 00:00:41,910  
my good friend Jim wilcher on his a

7  
00:00:38,030 --> 00:00:43,890  
lovely farm at a place called calm Elmo

8  
00:00:41,909 --> 00:00:46,339  
right in the southern bit of New South

9  
00:00:43,890 --> 00:00:48,780  
Wales alongside the Murray River

10  
00:00:46,340 --> 00:00:51,000  
beautiful gorgeous to be down here for a

11  
00:00:48,780 --> 00:00:54,390  
few days to help Jim celebrate his

12  
00:00:51,000 --> 00:00:57,329  
birthday I'm sitting here just outside

13  
00:00:54,390 --> 00:00:59,698  
his farmhouse surrounded by beautiful

14  
00:00:57,329 --> 00:01:02,698  
lush green countryside you can hear the

15  
00:00:59,698 --> 00:01:06,629  
odd cockatoo and as cattle over there

16  
00:01:02,698 --> 00:01:09,929  
past the fence wonderful idol X button

17  
00:01:06,629 --> 00:01:14,669  
for a few days coming up on this week's

18  
00:01:09,930 --> 00:01:17,070  
skeptic zone I speak to David Tyler from

19  
00:01:14,670 --> 00:01:19,379  
the Launceston skeptics in Tasmania

20  
00:01:17,069 --> 00:01:22,559  
about their adventures visiting a

21  
00:01:19,379 --> 00:01:25,280  
mind-body wallet mind body spirit mind

22  
00:01:22,560 --> 00:01:27,868  
body soul festival in launceston as

23  
00:01:25,280 --> 00:01:29,969  
skeptic in other words they turned up

24  
00:01:27,868 --> 00:01:33,450  
there had their own table and we're

25  
00:01:29,969 --> 00:01:35,129  
giving up skeptical advice into the

26  
00:01:33,450 --> 00:01:38,310  
heart of darkness you might say that

27  
00:01:35,129 --> 00:01:41,250  
interview coming up soon following that

28  
00:01:38,310 --> 00:01:43,740  
we hear from Australian skeptics editor

29

00:01:41,250 --> 00:01:46,978  
and chief executive officer tim mendham

30  
00:01:43,739 --> 00:01:49,618  
a recent bit he recorded for ABC radio

31  
00:01:46,978 --> 00:01:54,390  
all about universities in Australia

32  
00:01:49,618 --> 00:01:58,170  
giving out well strange degrees in very

33  
00:01:54,390 --> 00:02:01,290  
strange courses woo University you might

34  
00:01:58,170 --> 00:02:04,228  
call it after that we have dr. Richie

35  
00:02:01,290 --> 00:02:06,899  
with dr. Richie reports talking about

36  
00:02:04,228 --> 00:02:09,389  
the use of science he sounding words in

37  
00:02:06,899 --> 00:02:11,789  
advertising would you like some quantum

38  
00:02:09,389 --> 00:02:13,089  
with that and to wrap up the show we

39  
00:02:11,789 --> 00:02:16,239  
have Maynard with his

40  
00:02:13,090 --> 00:02:18,189  
spooky action at a distance now main art

41  
00:02:16,239 --> 00:02:21,310  
is going to visit mike dawson who has a

42  
00:02:18,189 --> 00:02:27,219  
room a house in fact a whole house full

43  
00:02:21,310 --> 00:02:29,170

of dinosaurs yes dinosaurs hmm and the

44

00:02:27,219 --> 00:02:30,310

last little bit of the show is a brief

45

00:02:29,169 --> 00:02:33,039

interview of the good friend of ours

46

00:02:30,310 --> 00:02:38,080

david barwick who bought me yet another

47

00:02:33,039 --> 00:02:41,409

power balance band wristband holographic

48

00:02:38,080 --> 00:02:43,269

sort of thing now before we really get

49

00:02:41,409 --> 00:02:46,090

into the show a few little other points

50

00:02:43,269 --> 00:02:48,280

I've decided well I've been encouraged

51

00:02:46,090 --> 00:02:52,090

and asked and we received a donation to

52

00:02:48,280 --> 00:02:55,560

the skeptic zone to go vegan for two

53

00:02:52,090 --> 00:03:01,360

days I'm happy to do it why not what fun

54

00:02:55,560 --> 00:03:03,098

lovely pumpkin soup vegetables oh I can

55

00:03:01,360 --> 00:03:06,069

think of some great vegan food I can get

56

00:03:03,098 --> 00:03:08,798

stuck into just for two days not a

57

00:03:06,068 --> 00:03:12,039

problem and that's thanks to on Twitter

58  
00:03:08,799 --> 00:03:14,680  
flex a vegan but i don't think i'll be

59  
00:03:12,039 --> 00:03:17,138  
doing it forever a couple of days why

60  
00:03:14,680 --> 00:03:18,730  
not good fun and hey if you want to go

61  
00:03:17,139 --> 00:03:27,459  
vegan for a couple of days what's the

62  
00:03:18,729 --> 00:03:31,839  
harm in that thanks Jim Oh Jim happy

63  
00:03:27,459 --> 00:03:33,670  
birthday by the way Jim standing over

64  
00:03:31,840 --> 00:03:37,180  
there do you entry to his house with

65  
00:03:33,669 --> 00:03:40,598  
mini the dog mini the dog the cattle dog

66  
00:03:37,180 --> 00:03:43,209  
the intelligent cattle dog now I'd like

67  
00:03:40,598 --> 00:03:46,328  
to thank listener Seth Wolfson who sent

68  
00:03:43,209 --> 00:03:49,180  
me a copy of his book all about forensic

69  
00:03:46,329 --> 00:03:51,069  
sculpting this is the sort of things you

70  
00:03:49,180 --> 00:03:54,120  
see on TV where they get a scholar nice

71  
00:03:51,068 --> 00:03:56,348  
carefully put little little bits of

72  
00:03:54,120 --> 00:03:58,509  
modeling clay on it and build up the

73  
00:03:56,348 --> 00:04:01,179  
face again for the police to have a look

74  
00:03:58,509 --> 00:04:05,500  
at what a fascinating area of endeavor

75  
00:04:01,180 --> 00:04:09,069  
and you can check out CEFs work at WWF

76  
00:04:05,500 --> 00:04:10,750  
forensic sculpting com thanks Seth what

77  
00:04:09,068 --> 00:04:14,199  
an interesting book you've sent me and

78  
00:04:10,750 --> 00:04:16,660  
now we have a very important message the

79  
00:04:14,199 --> 00:04:18,189  
doctor rachey has asked me to her to

80  
00:04:16,660 --> 00:04:21,849  
bring to you before we get into the show

81  
00:04:18,189 --> 00:04:23,889  
on the twentieth of april 2011 a draft

82  
00:04:21,848 --> 00:04:27,069  
report was posted from the australian

83  
00:04:23,889 --> 00:04:30,490  
government saying that homeopathy is

84  
00:04:27,069 --> 00:04:32,079  
ethical and without efficacy according

85  
00:04:30,490 --> 00:04:34,509  
to the report their findings have come

86

00:04:32,079 --> 00:04:36,839  
about owing to recent claims that

87  
00:04:34,509 --> 00:04:39,939  
homeopathy is a substitute for

88  
00:04:36,839 --> 00:04:42,669  
vaccinations homeopathy itself is under

89  
00:04:39,939 --> 00:04:45,670  
fire having been implicated in two

90  
00:04:42,670 --> 00:04:47,500  
recent deaths in Australia also the

91  
00:04:45,670 --> 00:04:51,550  
finding of the UK Science and Technology

92  
00:04:47,500 --> 00:04:54,970  
Committee that no taxpayer money should

93  
00:04:51,550 --> 00:04:56,470  
be spent on this quackery now this is

94  
00:04:54,970 --> 00:04:59,230  
the first time the Australian Government

95  
00:04:56,470 --> 00:05:02,230  
has made such a strong statement about

96  
00:04:59,230 --> 00:05:04,780  
homeopathy and we at the skeptic zone

97  
00:05:02,230 --> 00:05:06,700  
welcome this development you can find

98  
00:05:04,779 --> 00:05:08,979  
out more about this story by visiting

99  
00:05:06,699 --> 00:05:12,370  
the skeptics owns blog which is dr. ray

100  
00:05:08,980 --> 00:05:14,290

cheese blog the skeptic book also with

101

00:05:12,370 --> 00:05:17,620

the newsletter that comes out with this

102

00:05:14,290 --> 00:05:21,569

episode if you subscribe ww skeptics on

103

00:05:17,620 --> 00:05:24,790

TV there's a link to the recent story

104

00:05:21,569 --> 00:05:27,250

that I appeared in on today tonight the

105

00:05:24,790 --> 00:05:29,680

TV show about homeopathy now I played

106

00:05:27,250 --> 00:05:32,220

the audio on last week's show well I've

107

00:05:29,680 --> 00:05:36,040

put the video online now for you to see

108

00:05:32,220 --> 00:05:38,530

all right as I sit back here and enjoy

109

00:05:36,040 --> 00:05:41,290

the drifting clouds over the hills and

110

00:05:38,529 --> 00:05:45,819

the screech of the cockatoos behind my

111

00:05:41,290 --> 00:05:50,460

shoulder wind and the birds I'll let you

112

00:05:45,819 --> 00:05:50,459

enjoy the skeptic zone

113

00:06:06,790 --> 00:06:14,030

and joining me now from launceston and

114

00:06:10,819 --> 00:06:16,339

beautiful has made me it's david tyler

115  
00:06:14,029 --> 00:06:18,559  
hi David hi Richard how are you I'm

116  
00:06:16,339 --> 00:06:21,679  
pretty well and I'm very interested to

117  
00:06:18,560 --> 00:06:25,370  
hear more about your adventures going to

118  
00:06:21,680 --> 00:06:27,620  
the body and soul festival as not a

119  
00:06:25,370 --> 00:06:29,480  
skeptic in disguise not just having a

120  
00:06:27,620 --> 00:06:32,899  
look around but actually being there and

121  
00:06:29,480 --> 00:06:35,689  
representing the skeptical movement how

122  
00:06:32,899 --> 00:06:37,699  
how was that how did that pan out well

123  
00:06:35,689 --> 00:06:39,709  
it panned out very well we were and

124  
00:06:37,699 --> 00:06:42,019  
quite frankly Richard we we didn't

125  
00:06:39,709 --> 00:06:44,359  
really think we'd pull this off it came

126  
00:06:42,019 --> 00:06:46,430  
from a discussion we had no matter one

127  
00:06:44,360 --> 00:06:48,139  
of our skeptics in the pub meetings and

128  
00:06:46,430 --> 00:06:51,350  
someone tell why don't we go along to it

129  
00:06:48,139 --> 00:06:53,300  
myself we we won't be allowed to go we

130  
00:06:51,350 --> 00:06:54,500  
thought well we we should ask and we

131  
00:06:53,300 --> 00:06:57,500  
went along and had a meeting with the

132  
00:06:54,500 --> 00:06:59,870  
organizers and and sure enough we got

133  
00:06:57,500 --> 00:07:02,000  
ourselves a booth in a way we went from

134  
00:06:59,870 --> 00:07:04,310  
there that must have been an interesting

135  
00:07:02,000 --> 00:07:08,079  
meeting what was the organizers reaction

136  
00:07:04,310 --> 00:07:10,550  
to your request we've gone along their

137  
00:07:08,079 --> 00:07:12,680  
pre-prepared with a with a little

138  
00:07:10,550 --> 00:07:14,720  
manifesto and a code of conduct if you

139  
00:07:12,680 --> 00:07:17,360  
like because we wanted to make sure that

140  
00:07:14,720 --> 00:07:19,880  
if we did go to this thing we were not

141  
00:07:17,360 --> 00:07:22,629  
in any sense a Trojan horse we wanted to

142  
00:07:19,879 --> 00:07:25,159  
go we wanted to go in good faith upfront

143

00:07:22,629 --> 00:07:27,680  
true to ourselves and not in any way

144  
00:07:25,160 --> 00:07:29,510  
hiding what we were about so we had this

145  
00:07:27,680 --> 00:07:32,120  
manifesto and and the lady who the

146  
00:07:29,509 --> 00:07:34,420  
organizing lady was was really rather

147  
00:07:32,120 --> 00:07:38,209  
good about it and she was quite

148  
00:07:34,420 --> 00:07:40,819  
surprising she took the view that it was

149  
00:07:38,209 --> 00:07:43,519  
okay to have an alternative viewpoint

150  
00:07:40,819 --> 00:07:45,620  
expressed there and if anybody any of

151  
00:07:43,519 --> 00:07:47,449  
the other stall holders were threatened

152  
00:07:45,620 --> 00:07:48,829  
by that well that was their problem so

153  
00:07:47,449 --> 00:07:51,139  
that was a that was a perfect approach

154  
00:07:48,829 --> 00:07:53,719  
from our point of view that that's good

155  
00:07:51,139 --> 00:07:55,729  
that said well quite an open minded if I

156  
00:07:53,720 --> 00:07:58,250  
couldn't use that term approach from the

157  
00:07:55,730 --> 00:07:59,569

organizers down there well it is it you

158

00:07:58,250 --> 00:08:01,459

know it's over the years it's occurred

159

00:07:59,569 --> 00:08:03,980

to us here up here in Sydney because

160

00:08:01,459 --> 00:08:06,829

there are two mind body spirit of

161

00:08:03,980 --> 00:08:09,830

mind-body wallet festivals a year here

162

00:08:06,829 --> 00:08:11,959

they go for about four days and it would

163

00:08:09,829 --> 00:08:14,539

be very we always think would be very

164

00:08:11,959 --> 00:08:17,180

difficult for us to have some

165

00:08:14,540 --> 00:08:19,879

they're over the the course of the whole

166

00:08:17,180 --> 00:08:22,069

festival but the one in Tasmania the one

167

00:08:19,879 --> 00:08:24,860

in locis and I gather didn't go for so

168

00:08:22,069 --> 00:08:26,360

long I wait for three days well that's

169

00:08:24,860 --> 00:08:28,730

that's a bit longer than I thought you

170

00:08:26,360 --> 00:08:31,759

yeah 3 3-day three full days and we had

171

00:08:28,730 --> 00:08:34,340

only had eight or nine members and and

172  
00:08:31,759 --> 00:08:36,340  
we drew up rosters we decided that we

173  
00:08:34,340 --> 00:08:38,440  
really ought to have at least two people

174  
00:08:36,340 --> 00:08:41,090  
present on the stall at any one time

175  
00:08:38,440 --> 00:08:42,950  
just just in case I quite frankly will

176  
00:08:41,090 --> 00:08:44,810  
we went through all these horror

177  
00:08:42,950 --> 00:08:46,490  
scenarios in our minds once we realized

178  
00:08:44,809 --> 00:08:49,099  
this was going to happen yeah you know

179  
00:08:46,490 --> 00:08:52,700  
what what if what if someone confronts

180  
00:08:49,100 --> 00:08:55,519  
us and gets angry and what if someone

181  
00:08:52,700 --> 00:08:57,590  
comes up and says I look you know can

182  
00:08:55,519 --> 00:08:59,689  
you tell us about stall number 37 is

183  
00:08:57,590 --> 00:09:01,910  
that a scam we had to think we had to

184  
00:08:59,690 --> 00:09:04,460  
think all those things through and and

185  
00:09:01,909 --> 00:09:06,980  
and have approaches that were we thought

186  
00:09:04,460 --> 00:09:10,430  
were reasonable but still were true to

187  
00:09:06,980 --> 00:09:12,769  
our own values so we had a two bit and

188  
00:09:10,429 --> 00:09:13,819  
we had a ball it was it was really good

189  
00:09:12,769 --> 00:09:16,789  
and we met some really interesting

190  
00:09:13,820 --> 00:09:18,830  
people in fact believe it or not there

191  
00:09:16,789 --> 00:09:21,379  
are there are a couple of people who

192  
00:09:18,830 --> 00:09:24,980  
actually came to the festival to talk to

193  
00:09:21,379 --> 00:09:26,629  
us really to talk to the skeptic so that

194  
00:09:24,980 --> 00:09:28,220  
was a that was a bit unusual but we got

195  
00:09:26,629 --> 00:09:29,720  
to know some of the other stall holders

196  
00:09:28,220 --> 00:09:31,610  
and and there was some interesting

197  
00:09:29,720 --> 00:09:34,190  
characters they really always are there

198  
00:09:31,610 --> 00:09:36,800  
that that's very true did lead the

199  
00:09:34,190 --> 00:09:38,480  
situation arise where someone was

200

00:09:36,799 --> 00:09:40,699  
indignant that you were there or

201  
00:09:38,480 --> 00:09:43,580  
remember the public said to you what

202  
00:09:40,700 --> 00:09:46,520  
about those stand 37 what do you think

203  
00:09:43,580 --> 00:09:49,700  
of those people not not overtly in fact

204  
00:09:46,519 --> 00:09:51,319  
we were quite surprised we we we got

205  
00:09:49,700 --> 00:09:54,170  
some people who just sort of walked past

206  
00:09:51,320 --> 00:09:56,330  
look down their noses and at us but the

207  
00:09:54,169 --> 00:09:59,299  
thing we feared more than anything was

208  
00:09:56,330 --> 00:10:01,550  
not hostility but indifference and and

209  
00:09:59,299 --> 00:10:02,629  
we didn't really get any hostility but

210  
00:10:01,549 --> 00:10:04,129  
lots of people who wanted to have

211  
00:10:02,629 --> 00:10:06,200  
spirited arguments with us and that was

212  
00:10:04,129 --> 00:10:09,919  
that was fine spirited discussions yeah

213  
00:10:06,200 --> 00:10:12,500  
but there was no no one abused us and I

214  
00:10:09,919 --> 00:10:14,240

suspect that the ones who were weren't

215

00:10:12,500 --> 00:10:17,750

that pleased about our presence probably

216

00:10:14,240 --> 00:10:20,060

just stayed away but we we had to decide

217

00:10:17,750 --> 00:10:21,950

also Richard what we wanted to achieve

218

00:10:20,059 --> 00:10:23,689

from this it's not just a case of

219

00:10:21,950 --> 00:10:25,820

turning up yet you have to have a plan

220

00:10:23,690 --> 00:10:27,620

so we thought okay what do we want to

221

00:10:25,820 --> 00:10:29,870

achieve and we decided that

222

00:10:27,620 --> 00:10:31,759

really it was about encouraging people

223

00:10:29,870 --> 00:10:33,110

to think a little bit before

224

00:10:31,759 --> 00:10:35,559

particularly before they spend their

225

00:10:33,110 --> 00:10:38,720

money on things so to that end we

226

00:10:35,559 --> 00:10:41,959

produced a series of little cards that

227

00:10:38,720 --> 00:10:43,250

we call think thinkers guide to there

228

00:10:41,960 --> 00:10:45,080

was the thing I think the thinker's

229  
00:10:43,250 --> 00:10:47,870  
guide to reflexology to homeopathy

230  
00:10:45,080 --> 00:10:49,670  
psychic reading and so on so we produced

231  
00:10:47,870 --> 00:10:51,830  
a bunch of those and we thought that's

232  
00:10:49,669 --> 00:10:53,419  
simple little things that someone might

233  
00:10:51,830 --> 00:10:56,240  
read you could read it in 30 seconds

234  
00:10:53,419 --> 00:10:57,740  
yeah rather it could be the people in

235  
00:10:56,240 --> 00:11:00,889  
that sort of market are not going to

236  
00:10:57,740 --> 00:11:02,450  
want to read five or six pages of stuff

237  
00:11:00,889 --> 00:11:03,860  
about homeopathy they want a little

238  
00:11:02,450 --> 00:11:05,390  
bite-sized thing and then and then they

239  
00:11:03,860 --> 00:11:07,730  
can look for more stuff if they want to

240  
00:11:05,389 --> 00:11:09,049  
yes absolutely I think that's the best

241  
00:11:07,730 --> 00:11:10,759  
approach because if you're going to

242  
00:11:09,049 --> 00:11:11,870  
engage somebody's interest the last

243  
00:11:10,759 --> 00:11:13,490  
thing you want to do is give them a

244  
00:11:11,870 --> 00:11:16,909  
little booklet which they can't possibly

245  
00:11:13,490 --> 00:11:18,289  
absorb or read or understand in a short

246  
00:11:16,909 --> 00:11:22,219  
time if they just sort of casually

247  
00:11:18,289 --> 00:11:23,659  
walking past now I am I found these

248  
00:11:22,220 --> 00:11:25,399  
things to be so interesting over the

249  
00:11:23,659 --> 00:11:27,049  
years and I've always encouraged my

250  
00:11:25,399 --> 00:11:29,629  
listeners and skeptics I've met and

251  
00:11:27,049 --> 00:11:31,519  
other people to go along at least to go

252  
00:11:29,629 --> 00:11:33,740  
along to one of these mind body spirit

253  
00:11:31,519 --> 00:11:36,740  
mind body wallet type body and soul

254  
00:11:33,740 --> 00:11:39,709  
festivals because I always think it's a

255  
00:11:36,740 --> 00:11:42,528  
valuable learning opportunity for your

256  
00:11:39,708 --> 00:11:45,139  
average skeptic to understand what's

257

00:11:42,528 --> 00:11:46,610  
going on out there and in well I don't

258  
00:11:45,139 --> 00:11:49,789  
know if you'd call it the real world but

259  
00:11:46,610 --> 00:11:52,490  
that's that area have you been to one of

260  
00:11:49,789 --> 00:11:54,289  
these things before yourself oh yes I

261  
00:11:52,490 --> 00:11:56,629  
had Richard and but but I had to say

262  
00:11:54,289 --> 00:11:59,059  
looking at it from the inside as it were

263  
00:11:56,629 --> 00:12:01,278  
gave an entirely different perspective

264  
00:11:59,059 --> 00:12:03,439  
and and when you're sitting there for

265  
00:12:01,278 --> 00:12:05,778  
hours on end watching things and talking

266  
00:12:03,440 --> 00:12:07,540  
to people you really do get it see it

267  
00:12:05,778 --> 00:12:10,129  
from a different viewpoint and

268  
00:12:07,539 --> 00:12:11,838  
particularly we we had some interest

269  
00:12:10,129 --> 00:12:14,179  
from some of the other stall holders who

270  
00:12:11,839 --> 00:12:16,610  
would come and talk to us and it was

271  
00:12:14,179 --> 00:12:19,609

almost as if it was almost as if we were

272

00:12:16,610 --> 00:12:22,610

kind of accepted as part of the the

273

00:12:19,610 --> 00:12:24,919

carnival and and and we were kind of

274

00:12:22,610 --> 00:12:28,970

suddenly we were insiders instead of

275

00:12:24,919 --> 00:12:30,199

being outsiders and and in fact a couple

276

00:12:28,970 --> 00:12:32,180

of the couple of people actually

277

00:12:30,200 --> 00:12:33,290

confided in us there was a there was a

278

00:12:32,179 --> 00:12:36,559

tarot reader

279

00:12:33,289 --> 00:12:38,929

a lady who who told us that all appear

280

00:12:36,559 --> 00:12:41,479

there's no there's no magic in this this

281

00:12:38,929 --> 00:12:42,859

is I'm just a counselor no the cards

282

00:12:41,480 --> 00:12:46,909

don't mean anything that I help people

283

00:12:42,860 --> 00:12:49,459

and I talked which of course is is fine

284

00:12:46,909 --> 00:12:52,009

if people aren't having serious problems

285

00:12:49,458 --> 00:12:54,169

where a trained counselor could perhaps

286  
00:12:52,009 --> 00:12:57,230  
do something more worthwhile for them

287  
00:12:54,169 --> 00:13:00,708  
and there was a there was a guy one of

288  
00:12:57,230 --> 00:13:02,750  
the other psychic readers who who took a

289  
00:13:00,708 --> 00:13:06,049  
bit of a shine to us and I'll call him

290  
00:13:02,750 --> 00:13:08,120  
Marvin yeah and and Marvin Marvin spoke

291  
00:13:06,049 --> 00:13:10,399  
to us at length of several times during

292  
00:13:08,120 --> 00:13:12,740  
that over the three days and he told

293  
00:13:10,399 --> 00:13:15,169  
some it was a real sort of a carny fella

294  
00:13:12,740 --> 00:13:17,959  
you couldn't help like it though is that

295  
00:13:15,169 --> 00:13:19,549  
sort of a guy and he was he would tell

296  
00:13:17,958 --> 00:13:21,799  
us you know anecdotes about his

297  
00:13:19,549 --> 00:13:23,448  
experiences and happened one in

298  
00:13:21,799 --> 00:13:26,809  
particular which if you've got time for

299  
00:13:23,448 --> 00:13:29,299  
me to relate and he spoke about about

300  
00:13:26,809 --> 00:13:31,909  
the time when he he was doing a reading

301  
00:13:29,299 --> 00:13:33,948  
for a quite an elderly lady and he

302  
00:13:31,909 --> 00:13:35,990  
didn't really have any ID said I had no

303  
00:13:33,948 --> 00:13:38,028  
idea what to say to her and but I hadn't

304  
00:13:35,990 --> 00:13:39,440  
to have noticed outside that the

305  
00:13:38,028 --> 00:13:43,039  
building in the industry there was an

306  
00:13:39,440 --> 00:13:45,050  
old Austin car parked and so for no

307  
00:13:43,039 --> 00:13:46,939  
other reason than that he said to her

308  
00:13:45,049 --> 00:13:50,059  
you know what what's just that what's

309  
00:13:46,940 --> 00:13:52,430  
happened to Austin and the lady who were

310  
00:13:50,059 --> 00:13:53,869  
reacted with great surprise and it

311  
00:13:52,429 --> 00:13:57,409  
turned out that and she and then she

312  
00:13:53,870 --> 00:13:59,448  
said I'll we buried him yesterday no it

313  
00:13:57,409 --> 00:14:02,719  
turned out that she had misheard him and

314

00:13:59,448 --> 00:14:05,838  
and it was Oscar Oh her husband Oscar

315  
00:14:02,720 --> 00:14:07,910  
not not Austin and of course it was just

316  
00:14:05,839 --> 00:14:09,709  
one of those lucky hit oh wow that that

317  
00:14:07,909 --> 00:14:13,068  
these people have from time determined

318  
00:14:09,708 --> 00:14:14,539  
yeah so those sort of things and I'm

319  
00:14:13,068 --> 00:14:16,039  
sure they wouldn't have confided in us

320  
00:14:14,539 --> 00:14:17,990  
like that if we'd have just been

321  
00:14:16,039 --> 00:14:20,149  
skeptics going up to you know have it to

322  
00:14:17,990 --> 00:14:22,399  
have a chat with them so we kind of

323  
00:14:20,149 --> 00:14:25,389  
accepted on the inside of it it reminds

324  
00:14:22,399 --> 00:14:27,500  
me of a funny situation where I'm Oh

325  
00:14:25,389 --> 00:14:31,278  
number of years ago I was at one of

326  
00:14:27,500 --> 00:14:33,799  
these things here in Sydney and I struck

327  
00:14:31,278 --> 00:14:37,399  
up a conversation with a woman who

328  
00:14:33,799 --> 00:14:40,068

claimed to have witchcraft powers and

329

00:14:37,399 --> 00:14:42,679

ice I thought I took her side night and

330

00:14:40,068 --> 00:14:44,479

I said in a low voice where you know you

331

00:14:42,679 --> 00:14:46,229

gotta you go to admit there's a lot of

332

00:14:44,480 --> 00:14:47,879

crazy people here

333

00:14:46,230 --> 00:14:50,009

to see what her reaction was and she

334

00:14:47,879 --> 00:14:51,600

looked at me and she said yeah they're

335

00:14:50,009 --> 00:14:53,309

yeah there are a lot of really crazy

336

00:14:51,600 --> 00:14:56,639

people here so I thought that was quite

337

00:14:53,309 --> 00:14:59,189

funny to give that to get someone like

338

00:14:56,639 --> 00:15:01,980

that confiding in me at that time and

339

00:14:59,190 --> 00:15:03,780

that person who will cook all I why

340

00:15:01,980 --> 00:15:06,210

don't know glendor for a lack of a

341

00:15:03,779 --> 00:15:09,240

better word initially said that she

342

00:15:06,210 --> 00:15:11,850

would gladly take the skeptics \$100,000

343  
00:15:09,240 --> 00:15:14,159  
challenge because she could do her claim

344  
00:15:11,850 --> 00:15:17,070  
anywhere and eventually she backed down

345  
00:15:14,159 --> 00:15:19,139  
so but there you go did you have Marvin

346  
00:15:17,070 --> 00:15:21,270  
Marvin wants to come and have us test

347  
00:15:19,139 --> 00:15:23,370  
him uh-huh and I we haven't really

348  
00:15:21,269 --> 00:15:25,620  
advanced that yet we'll have to work out

349  
00:15:23,370 --> 00:15:27,360  
some way of doing that but he sees he

350  
00:15:25,620 --> 00:15:28,919  
seems to be fixated on the idea that he

351  
00:15:27,360 --> 00:15:31,320  
can tell whether someone has moved into

352  
00:15:28,919 --> 00:15:33,500  
a new house or bought a new house or LOL

353  
00:15:31,320 --> 00:15:36,510  
seems to be that seems to be his stick

354  
00:15:33,500 --> 00:15:38,549  
I'm not sure why maybe he's had a bit of

355  
00:15:36,509 --> 00:15:40,139  
success along the line it would hardly

356  
00:15:38,549 --> 00:15:41,669  
surprise me if he had a bit of his

357  
00:15:40,139 --> 00:15:44,009  
success along those lines there is a

358  
00:15:41,669 --> 00:15:45,419  
classic the moving last the new house

359  
00:15:44,009 --> 00:15:47,429  
you're thinking about it you just have

360  
00:15:45,419 --> 00:15:49,740  
you did a year ago you will next year

361  
00:15:47,429 --> 00:15:51,479  
haven't moved house I bet you will that

362  
00:15:49,740 --> 00:15:54,090  
sort of thing yeah you can't you can't

363  
00:15:51,480 --> 00:15:56,610  
lose can you protect me but one of the

364  
00:15:54,090 --> 00:15:58,230  
best things that happened and and and it

365  
00:15:56,610 --> 00:16:01,169  
was you know it's only a fairly small

366  
00:15:58,230 --> 00:16:04,740  
thing but but big in its way a young

367  
00:16:01,169 --> 00:16:06,449  
mother came to our stall and was having

368  
00:16:04,740 --> 00:16:09,750  
a chat with us and she read a couple of

369  
00:16:06,450 --> 00:16:11,930  
them thinkers guide to cards and before

370  
00:16:09,750 --> 00:16:15,570  
she'd come to our stall she had bought a

371

00:16:11,929 --> 00:16:18,719  
homeopathic a whooping cough legs

372  
00:16:15,570 --> 00:16:21,000  
envision Wow hmm that would she intended

373  
00:16:18,720 --> 00:16:24,690  
to give to her child or children well

374  
00:16:21,000 --> 00:16:26,730  
and having read some of their material

375  
00:16:24,690 --> 00:16:29,310  
and having a chat with us she actually

376  
00:16:26,730 --> 00:16:31,950  
went back and got her money back that's

377  
00:16:29,309 --> 00:16:34,319  
quite a win yeah I thought that was I

378  
00:16:31,950 --> 00:16:36,480  
think that was really really good that

379  
00:16:34,320 --> 00:16:39,840  
is quite a winner it's a win for the

380  
00:16:36,480 --> 00:16:42,420  
child certainly hmm and there were quite

381  
00:16:39,840 --> 00:16:44,070  
a few there were sort of other skeptics

382  
00:16:42,419 --> 00:16:46,439  
although not in the formal sense as we

383  
00:16:44,070 --> 00:16:48,270  
might understand them there are some of

384  
00:16:46,440 --> 00:16:50,430  
the husbands who are sort of Brooklyn

385  
00:16:48,269 --> 00:16:52,509

but there was what we're glad to see us

386

00:16:50,429 --> 00:16:54,609  
and glad to have a chat with us

387

00:16:52,509 --> 00:16:57,850  
if you have a much of an opportunity

388

00:16:54,610 --> 00:17:01,289  
when you were there to leave the stall

389

00:16:57,850 --> 00:17:04,059  
and wander around to see ordered the fun

390

00:17:01,289 --> 00:17:05,680  
yes we did we did have time to do that

391

00:17:04,059 --> 00:17:07,838  
and and I spoke with the number of

392

00:17:05,680 --> 00:17:11,230  
people and I spoke with a very

393

00:17:07,838 --> 00:17:14,639  
interesting lady who was glad to tell us

394

00:17:11,230 --> 00:17:18,220  
that she was 73 or inner 70s and she was

395

00:17:14,640 --> 00:17:20,230  
into reflexology and and I have

396

00:17:18,220 --> 00:17:24,190  
absolutely no doubt Richard of her

397

00:17:20,230 --> 00:17:26,920  
sincerity she totally believed in what

398

00:17:24,190 --> 00:17:30,100  
she was doing but a short discussion

399

00:17:26,920 --> 00:17:32,320  
with her you became obvious that she

400  
00:17:30,099 --> 00:17:35,679  
didn't really have much of a clue about

401  
00:17:32,319 --> 00:17:37,450  
science or even Anatomy but she she had

402  
00:17:35,680 --> 00:17:39,940  
lots of people who said the doctors

403  
00:17:37,450 --> 00:17:42,190  
couldn't cure me but you did and and she

404  
00:17:39,940 --> 00:17:45,130  
was very she was very sincere well I

405  
00:17:42,190 --> 00:17:48,430  
mean this again reflects my own

406  
00:17:45,130 --> 00:17:50,680  
experience their lack of general or

407  
00:17:48,430 --> 00:17:52,690  
basic scientific knowledge of these

408  
00:17:50,680 --> 00:17:53,950  
people well no i don't to be to blanket

409  
00:17:52,690 --> 00:17:57,220  
about it but many of these people

410  
00:17:53,950 --> 00:17:59,259  
certainly which makes having a

411  
00:17:57,220 --> 00:18:01,329  
conversation with them or a constructive

412  
00:17:59,259 --> 00:18:04,180  
argument with them very limiting because

413  
00:18:01,329 --> 00:18:05,679  
often you can't get to really to first

414  
00:18:04,180 --> 00:18:08,350  
base because you're not speaking the

415  
00:18:05,680 --> 00:18:12,009  
same language as it were that's right

416  
00:18:08,349 --> 00:18:14,740  
and and you they'll often cite pseudo

417  
00:18:12,009 --> 00:18:16,299  
scientific proof and then in the next

418  
00:18:14,740 --> 00:18:18,819  
breath say well you know science doesn't

419  
00:18:16,299 --> 00:18:21,129  
know what it's talking about so you know

420  
00:18:18,819 --> 00:18:24,839  
you get that sort of thing our stall was

421  
00:18:21,130 --> 00:18:27,670  
not very far from an applied kinesiology

422  
00:18:24,839 --> 00:18:29,679  
outfit oh yeah which had about three or

423  
00:18:27,670 --> 00:18:32,950  
four massage tables and they were doing

424  
00:18:29,680 --> 00:18:36,730  
their thing and you know watching that

425  
00:18:32,950 --> 00:18:39,519  
for hours on end you really yeah you

426  
00:18:36,730 --> 00:18:43,029  
just struck by how absurd the whole

427  
00:18:39,519 --> 00:18:46,539  
thing is and it looks like nothing more

428

00:18:43,029 --> 00:18:49,089  
than you know vanishing evil spirits

429  
00:18:46,539 --> 00:18:52,930  
with hand waving it's just astonishing

430  
00:18:49,089 --> 00:18:56,189  
when you actually get to see it for for

431  
00:18:52,930 --> 00:18:58,930  
some length of time oh it is yes it's I

432  
00:18:56,190 --> 00:19:00,400  
must agree it struck me the first time I

433  
00:18:58,930 --> 00:19:03,700  
saw that and somebody was standing

434  
00:19:00,400 --> 00:19:05,600  
behind someone and almost doing a sort

435  
00:19:03,700 --> 00:19:07,580  
of a strange hula dance but

436  
00:19:05,599 --> 00:19:10,029  
waving their hands at the same time and

437  
00:19:07,579 --> 00:19:13,480  
then wringing their hands as if to

438  
00:19:10,029 --> 00:19:16,668  
vanish the or vanquish the evil energies

439  
00:19:13,480 --> 00:19:18,650  
and I can't I can't imagine what it must

440  
00:19:16,669 --> 00:19:20,929  
be like to see that hour after her

441  
00:19:18,650 --> 00:19:22,700  
that's right and and I didn't realize

442  
00:19:20,929 --> 00:19:24,320

that they did the foot movements you

443

00:19:22,700 --> 00:19:26,450

mentioned a sort of a little dance they

444

00:19:24,319 --> 00:19:27,829

do these ones were doing yeah these were

445

00:19:26,450 --> 00:19:29,870

doing a you know they'd stand there with

446

00:19:27,829 --> 00:19:31,038

a feat sort of a normal width apart and

447

00:19:29,869 --> 00:19:33,079

then they'd bring their feet together

448

00:19:31,038 --> 00:19:35,779

and then back out again so that was

449

00:19:33,079 --> 00:19:38,210

obviously part of this ritual that this

450

00:19:35,779 --> 00:19:40,460

particular crowd was were undertaking

451

00:19:38,210 --> 00:19:42,860

but they were treating little children

452

00:19:40,460 --> 00:19:45,798

who over there was one baby there at one

453

00:19:42,859 --> 00:19:48,740

stage and you know you just you just

454

00:19:45,798 --> 00:19:51,139

wonder wow yeah that money it is it's

455

00:19:48,740 --> 00:19:53,690

difficult I agree it is difficult and

456

00:19:51,140 --> 00:19:55,640

but again it's no reason for skeptics

457  
00:19:53,690 --> 00:19:58,480  
not to go these things because you know

458  
00:19:55,640 --> 00:20:01,460  
people on our side of the the argument

459  
00:19:58,480 --> 00:20:03,620  
really do need to see what is going on

460  
00:20:01,460 --> 00:20:06,350  
out there and why people are going to

461  
00:20:03,619 --> 00:20:09,759  
these stands and parting with good money

462  
00:20:06,349 --> 00:20:13,928  
for unproven and sometimes dangerous

463  
00:20:09,759 --> 00:20:16,429  
claims now do you think is this

464  
00:20:13,929 --> 00:20:18,470  
experience put you off or encourage you

465  
00:20:16,429 --> 00:20:20,780  
to do it again next year I would love to

466  
00:20:18,470 --> 00:20:25,610  
do it again and in fact we were offered

467  
00:20:20,779 --> 00:20:27,109  
a chance to to do a present a little

468  
00:20:25,609 --> 00:20:29,149  
like a seminar if you like they had

469  
00:20:27,109 --> 00:20:31,369  
these rolling seminar type things

470  
00:20:29,150 --> 00:20:32,900  
happening on the stage but frankly we

471  
00:20:31,369 --> 00:20:34,819  
weren't just weren't equipped to do that

472  
00:20:32,900 --> 00:20:36,890  
at this dash because we're a bit like

473  
00:20:34,819 --> 00:20:39,379  
the the dog that chases the currents

474  
00:20:36,890 --> 00:20:41,630  
catches it in you know now what are we

475  
00:20:39,380 --> 00:20:43,669  
going to do so we had to quickly we had

476  
00:20:41,630 --> 00:20:45,679  
no logos we had no banners we're nothing

477  
00:20:43,669 --> 00:20:47,870  
we had no yeah of course there's no rule

478  
00:20:45,679 --> 00:20:51,200  
knowing you'll ask you know how did you

479  
00:20:47,869 --> 00:20:54,500  
do it because it's a fairly new ground

480  
00:20:51,200 --> 00:20:56,298  
as far as I'm aware so we had to we had

481  
00:20:54,500 --> 00:20:58,849  
to scramble to get those sort of basic

482  
00:20:56,298 --> 00:21:01,369  
things done but but next year if we were

483  
00:20:58,849 --> 00:21:03,949  
invited back and I hope we will be and

484  
00:21:01,369 --> 00:21:05,658  
we'd like to to do something well we

485

00:21:03,950 --> 00:21:08,779  
might actually set up things like some

486  
00:21:05,659 --> 00:21:10,909  
heroine free cold readings yeah we might

487  
00:21:08,779 --> 00:21:12,109  
even have someone like as ass kept on

488  
00:21:10,909 --> 00:21:13,820  
tour or something where you grab the

489  
00:21:12,109 --> 00:21:16,369  
handles and it gives you a reading of

490  
00:21:13,819 --> 00:21:17,689  
your credulity perhaps I don't know we

491  
00:21:16,369 --> 00:21:19,369  
will think of something you might

492  
00:21:17,690 --> 00:21:21,200  
consider doing

493  
00:21:19,369 --> 00:21:23,869  
one of my favorites which is the applied

494  
00:21:21,200 --> 00:21:26,450  
kinesiology balanced body balance tricks

495  
00:21:23,869 --> 00:21:28,879  
yes in fact that's that's very much on

496  
00:21:26,450 --> 00:21:30,680  
the cards with that that's a good one to

497  
00:21:28,880 --> 00:21:33,110  
do and it's that's one that can be done

498  
00:21:30,680 --> 00:21:34,730  
in that sort of format fairly in a

499  
00:21:33,109 --> 00:21:37,279

fairly straightforward manner certainly

500

00:21:34,730 --> 00:21:38,690

absolutely and you could give away one

501

00:21:37,279 --> 00:21:41,450

of our favorite things which is the

502

00:21:38,690 --> 00:21:45,140

placebo banned from skeptic bros calm

503

00:21:41,450 --> 00:21:46,610

yes yes indeed we will do that there are

504

00:21:45,140 --> 00:21:48,620

a number of things we can do to really

505

00:21:46,609 --> 00:21:50,990

when we we learned a lot from from this

506

00:21:48,619 --> 00:21:53,178

first experience so we can hopefully

507

00:21:50,990 --> 00:21:55,039

enhance it next year so that's coming up

508

00:21:53,179 --> 00:21:57,170

in mid-march next year or there's more

509

00:21:55,039 --> 00:21:58,849

is it more frequent down there I I think

510

00:21:57,170 --> 00:22:00,800

it's only once a year i'm pretty sure

511

00:21:58,849 --> 00:22:02,569

it's once a year and i assume it'll be

512

00:22:00,799 --> 00:22:04,369

about the same time of year next year so

513

00:22:02,569 --> 00:22:06,230

well we'll have to get get in touch with

514  
00:22:04,369 --> 00:22:08,389  
the organizer and say look we'd love to

515  
00:22:06,230 --> 00:22:10,579  
come back again and and do it again

516  
00:22:08,390 --> 00:22:12,140  
bigger and better perhaps we did have

517  
00:22:10,579 --> 00:22:15,649  
you know we handed out a lot of cards

518  
00:22:12,140 --> 00:22:17,540  
that we we had a meeting that followed

519  
00:22:15,650 --> 00:22:19,940  
that we had some interesting new people

520  
00:22:17,539 --> 00:22:22,579  
turn up including some ghost hunters oh

521  
00:22:19,940 --> 00:22:24,320  
really oh yeah i'm a i'm a told us all

522  
00:22:22,579 --> 00:22:27,019  
about their they've got there you know

523  
00:22:24,319 --> 00:22:29,509  
machines that read the electromagnetic

524  
00:22:27,019 --> 00:22:31,069  
radiation and they had cameras and voice

525  
00:22:29,509 --> 00:22:33,230  
recorders and all of that sort of thing

526  
00:22:31,069 --> 00:22:35,480  
and there are a couple of ladies there

527  
00:22:33,230 --> 00:22:37,610  
was one lady and i think they came along

528  
00:22:35,480 --> 00:22:40,308  
really just to give us a bit of a give

529  
00:22:37,609 --> 00:22:41,808  
us a bit of curry because they were one

530  
00:22:40,308 --> 00:22:44,539  
of them in particular was talking about

531  
00:22:41,808 --> 00:22:47,210  
the magic of crystals mmm and we were

532  
00:22:44,539 --> 00:22:49,819  
saying okay tell us about that and we

533  
00:22:47,210 --> 00:22:51,860  
kind of in a gentle way suggested that

534  
00:22:49,819 --> 00:22:53,779  
perhaps crystals weren't all that magic

535  
00:22:51,859 --> 00:22:56,299  
though some of them are very lovely and

536  
00:22:53,779 --> 00:22:57,980  
then she said something like oh yeah

537  
00:22:56,299 --> 00:23:02,869  
well if they're not magic what about

538  
00:22:57,980 --> 00:23:05,960  
quartz watches she did and that kind of

539  
00:23:02,869 --> 00:23:07,759  
took us back because as one of our

540  
00:23:05,960 --> 00:23:09,769  
members said afterwards of all the

541  
00:23:07,759 --> 00:23:11,450  
things she could have could have

542

00:23:09,769 --> 00:23:14,629  
presented as one of the mysteries of the

543  
00:23:11,450 --> 00:23:17,000  
world I could be wrong but I don't know

544  
00:23:14,630 --> 00:23:19,280  
that science is that baffled by how

545  
00:23:17,000 --> 00:23:20,869  
quartz watches would you know as you

546  
00:23:19,279 --> 00:23:22,460  
could have talked about dark energy and

547  
00:23:20,869 --> 00:23:24,739  
how do you know that's not spirits and

548  
00:23:22,460 --> 00:23:27,920  
things but no it was quartz watches that

549  
00:23:24,740 --> 00:23:30,500  
were the big mystery so interesting

550  
00:23:27,920 --> 00:23:31,810  
there you go she hasn't been back I know

551  
00:23:30,500 --> 00:23:36,200  
dear

552  
00:23:31,809 --> 00:23:39,710  
now I'm delighted that there is good

553  
00:23:36,200 --> 00:23:42,440  
solid activism done in launceston and

554  
00:23:39,710 --> 00:23:45,850  
the beautiful state of Tasmania do you

555  
00:23:42,440 --> 00:23:48,259  
have a handy website people can visit

556  
00:23:45,849 --> 00:23:51,009

well we do if you just google long

557

00:23:48,259 --> 00:23:53,960

launceston skeptics you'll find us and

558

00:23:51,009 --> 00:23:57,259

yeah anyone who's down here and likes to

559

00:23:53,960 --> 00:23:59,299

join us in the Royal Oak hotel first and

560

00:23:57,259 --> 00:24:01,279

third Thursday evenings at five-thirty

561

00:23:59,299 --> 00:24:03,759

they're welcome to come along and say

562

00:24:01,279 --> 00:24:06,920

hello first and third said twice a month

563

00:24:03,759 --> 00:24:09,289

twice am at loss wow let's we have one

564

00:24:06,920 --> 00:24:10,370

formal we have one sort of a structured

565

00:24:09,289 --> 00:24:13,190

meeting where we might have someone

566

00:24:10,369 --> 00:24:15,319

speaking on something and one the next

567

00:24:13,190 --> 00:24:16,850

one's just a you know skeptics in the

568

00:24:15,319 --> 00:24:19,069

pub when we all just shoot the breeze

569

00:24:16,849 --> 00:24:21,529

it's fantastic so everybody down in that

570

00:24:19,069 --> 00:24:23,929

neck of the woods or if you care to have

571  
00:24:21,529 --> 00:24:26,869  
a look Google launceston skeptics

572  
00:24:23,930 --> 00:24:28,610  
Tasmania and that take it from there

573  
00:24:26,869 --> 00:24:30,109  
well David thank you so much for

574  
00:24:28,609 --> 00:24:33,379  
chatting to me and our audience about

575  
00:24:30,109 --> 00:24:36,049  
your adventures I do take my head off to

576  
00:24:33,380 --> 00:24:38,300  
you going into the Lions Den but having

577  
00:24:36,049 --> 00:24:40,629  
a good time thanks for your interest

578  
00:24:38,299 --> 00:24:40,629  
rich

579  
00:24:48,009 --> 00:24:53,359  
hello and allah needle on solo scoffs of

580  
00:24:51,259 --> 00:24:55,730  
deployment been to an at low so now to

581  
00:24:53,359 --> 00:25:00,829  
skeptics on for weeds and stop and katie

582  
00:24:55,730 --> 00:25:05,650  
schneider moving from RC Connor we

583  
00:25:00,829 --> 00:25:05,649  
nearly been skeptics own funds TV

584  
00:25:15,819 --> 00:25:19,939  
Australian skeptics has been around for

585  
00:25:18,109 --> 00:25:22,219  
more than 30 years and over that time

586  
00:25:19,940 --> 00:25:24,160  
we've investigated many different forms

587  
00:25:22,220 --> 00:25:26,390  
of pseudoscience and the paranormal

588  
00:25:24,160 --> 00:25:28,490  
everything from flying sources and

589  
00:25:26,390 --> 00:25:30,620  
astrologers to the more serious and

590  
00:25:28,490 --> 00:25:33,410  
sometimes life-threatening subjects like

591  
00:25:30,619 --> 00:25:35,539  
cults and pseudo medicine many of these

592  
00:25:33,410 --> 00:25:38,540  
investigations have involved shall we

593  
00:25:35,539 --> 00:25:40,069  
say eccentric individuals let's be frank

594  
00:25:38,539 --> 00:25:42,129  
there are a lot of very strange people

595  
00:25:40,069 --> 00:25:44,119  
out there with equally strange beliefs

596  
00:25:42,130 --> 00:25:47,090  
that these sorts of beliefs aren't

597  
00:25:44,119 --> 00:25:49,129  
restricted to eccentrics we found that

598  
00:25:47,089 --> 00:25:51,589  
such beliefs are shared by many in

599

00:25:49,130 --> 00:25:54,230  
supposedly responsible and reputable

600  
00:25:51,589 --> 00:25:56,419  
organizations I've met one federal

601  
00:25:54,230 --> 00:25:58,460  
politician and government minister who

602  
00:25:56,420 --> 00:25:59,750  
believed in ghosts and of course there

603  
00:25:58,460 --> 00:26:02,240  
have been some in Parliament and I do

604  
00:25:59,750 --> 00:26:05,240  
mean more than one who believe in young

605  
00:26:02,240 --> 00:26:07,250  
Earth Creationism throughout our

606  
00:26:05,240 --> 00:26:09,319  
existence we have adhered religiously if

607  
00:26:07,250 --> 00:26:11,839  
I can use that word to the scientific

608  
00:26:09,319 --> 00:26:14,178  
method we believe that evidence on both

609  
00:26:11,839 --> 00:26:17,569  
sides of the coin should be provable and

610  
00:26:14,179 --> 00:26:20,480  
repeatable pseudoscience by definition

611  
00:26:17,569 --> 00:26:22,009  
is not so you can imagine how

612  
00:26:20,480 --> 00:26:24,470  
disappointed we been to see some

613  
00:26:22,009 --> 00:26:26,000

Australian universities teaching highly

614

00:26:24,470 --> 00:26:28,339  
dubious subjects particularly in

615

00:26:26,000 --> 00:26:30,769  
medicine without any evidence to support

616

00:26:28,339 --> 00:26:32,779  
them I'm not talking about discussing

617

00:26:30,769 --> 00:26:35,779  
such subjects in history or philosophy

618

00:26:32,779 --> 00:26:39,019  
courses that would be justifiable if

619

00:26:35,779 --> 00:26:40,849  
taught in an academic sense i'm also not

620

00:26:39,019 --> 00:26:42,980  
talking about researching the science if

621

00:26:40,849 --> 00:26:45,079  
any behind these subjects that's

622

00:26:42,980 --> 00:26:47,900  
something we would encourage as it fits

623

00:26:45,079 --> 00:26:49,308  
in with our basic premise what I am

624

00:26:47,900 --> 00:26:51,860  
talking about is teaching them as

625

00:26:49,308 --> 00:26:53,359  
legitimate areas of training with the

626

00:26:51,859 --> 00:26:55,240  
result that students come out the other

627

00:26:53,359 --> 00:26:57,219  
end as practitioners

628  
00:26:55,240 --> 00:26:59,829  
the topics that concern Australian

629  
00:26:57,220 --> 00:27:02,170  
skeptics include chiropractic homeopathy

630  
00:26:59,829 --> 00:27:04,928  
and acupuncture for treatments beyond

631  
00:27:02,170 --> 00:27:06,789  
analgesic effects which regularly appear

632  
00:27:04,929 --> 00:27:08,860  
in University calendars at one time or

633  
00:27:06,789 --> 00:27:11,069  
another they have also been cases of

634  
00:27:08,859 --> 00:27:12,689  
individual academics or even faculties

635  
00:27:11,069 --> 00:27:16,359  
promoting young Earth Creationism

636  
00:27:12,690 --> 00:27:18,789  
psychic powers spiritualism or as tarot

637  
00:27:16,359 --> 00:27:20,769  
cards astrology it's a procedure which

638  
00:27:18,789 --> 00:27:22,990  
have appeared either informal university

639  
00:27:20,769 --> 00:27:26,440  
courses or in special education services

640  
00:27:22,990 --> 00:27:28,058  
provided on university campuses we ask

641  
00:27:26,440 --> 00:27:29,620  
the university's umbrella group the

642  
00:27:28,058 --> 00:27:31,119  
former Australian Vice Chancellors

643  
00:27:29,619 --> 00:27:33,639  
committee and now called universities

644  
00:27:31,119 --> 00:27:35,859  
Australia if it had an official position

645  
00:27:33,640 --> 00:27:38,380  
on the bona fide ease of courses offered

646  
00:27:35,859 --> 00:27:40,299  
at Australian tertiary institutions the

647  
00:27:38,380 --> 00:27:43,030  
answer was no it was up to the

648  
00:27:40,299 --> 00:27:45,159  
individual institutions they said that

649  
00:27:43,029 --> 00:27:47,829  
if any courses were of concern we should

650  
00:27:45,160 --> 00:27:51,370  
contact the institution in question so

651  
00:27:47,829 --> 00:27:53,079  
we did Australian skeptics approached 11

652  
00:27:51,369 --> 00:27:55,089  
universities and one Institute of

653  
00:27:53,079 --> 00:27:57,129  
Technology and asked about their

654  
00:27:55,089 --> 00:27:59,589  
specific diploma degree in postgraduate

655  
00:27:57,130 --> 00:28:00,550  
courses that they are offering we

656

00:27:59,589 --> 00:28:02,639  
mentioned some of the more outlandish

657  
00:28:00,549 --> 00:28:06,099  
claims that have been made for these

658  
00:28:02,640 --> 00:28:08,800  
Sciences like chiropractic confusing

659  
00:28:06,099 --> 00:28:10,959  
difficulties and asthma that acupuncture

660  
00:28:08,799 --> 00:28:13,089  
can treat aids and palsy that

661  
00:28:10,960 --> 00:28:15,940  
naturopathy is rooted in mysticism and

662  
00:28:13,089 --> 00:28:17,799  
spirituality that component courses in

663  
00:28:15,940 --> 00:28:20,190  
kinesiology and aromatherapy were

664  
00:28:17,799 --> 00:28:22,960  
offered and especially that homeopathy

665  
00:28:20,190 --> 00:28:25,840  
which featured in many courses has no

666  
00:28:22,960 --> 00:28:27,880  
basis in science at all beyond a placebo

667  
00:28:25,839 --> 00:28:29,949  
effect we said we were especially

668  
00:28:27,880 --> 00:28:31,809  
concerned that these subjects were being

669  
00:28:29,950 --> 00:28:33,970  
offered under the imprimatur of the

670  
00:28:31,808 --> 00:28:36,519

university a place of higher learning

671

00:28:33,970 --> 00:28:38,170

and that there was no resigning from the

672

00:28:36,519 --> 00:28:40,960

fact that anyone looking at such a

673

00:28:38,170 --> 00:28:43,990

situation would naturally presume these

674

00:28:40,960 --> 00:28:46,900

subjects had been proven to be true when

675

00:28:43,990 --> 00:28:49,058

the truth is far from that naturally we

676

00:28:46,900 --> 00:28:51,160

expected all the universities to rise to

677

00:28:49,058 --> 00:28:52,690

the challenge and come back to us with

678

00:28:51,160 --> 00:28:56,259

other passionate defenses are the

679

00:28:52,690 --> 00:28:57,880

subjects or wishful thinking amia körper

680

00:28:56,259 --> 00:29:01,990

and will remove it from our course list

681

00:28:57,880 --> 00:29:03,669

forth with no such luck we heard back

682

00:29:01,990 --> 00:29:07,329

from four institutions are a mighty

683

00:29:03,669 --> 00:29:09,100

MODOK UTS and Charleston Sydney Union

684

00:29:07,329 --> 00:29:10,960

edith cowan university both

685  
00:29:09,099 --> 00:29:13,480  
promise to get back to us but neither

686  
00:29:10,960 --> 00:29:15,490  
did Macquarie uni got back to us only

687  
00:29:13,480 --> 00:29:17,829  
recently two months after we'd approach

688  
00:29:15,490 --> 00:29:19,690  
them only the Dean of the Faculty of

689  
00:29:17,829 --> 00:29:21,428  
science at Charles Stuart responded at

690  
00:29:19,690 --> 00:29:24,070  
length and engaged in further

691  
00:29:21,429 --> 00:29:25,480  
correspondence we thank him for that the

692  
00:29:24,069 --> 00:29:28,000  
rest of the responses were largely

693  
00:29:25,480 --> 00:29:30,009  
perfunctory basically saying we know

694  
00:29:28,000 --> 00:29:32,798  
what we're doing and that the courses

695  
00:29:30,009 --> 00:29:35,169  
meet the current standards for instance

696  
00:29:32,798 --> 00:29:38,470  
Murdoch university's chiropractic

697  
00:29:35,169 --> 00:29:40,830  
program meets the demanding standards of

698  
00:29:38,470 --> 00:29:43,960  
the Council on chiropractic education

699  
00:29:40,829 --> 00:29:46,149  
Murdoch uni cited the chiropractic board

700  
00:29:43,960 --> 00:29:49,390  
of Australia at a new national body

701  
00:29:46,150 --> 00:29:51,009  
overseeing professional regulation the

702  
00:29:49,390 --> 00:29:52,900  
University of Newcastle which didn't

703  
00:29:51,009 --> 00:29:55,569  
bother to get back to us has published a

704  
00:29:52,900 --> 00:29:57,730  
statement on website quote these

705  
00:29:55,569 --> 00:30:00,548  
therapies have been selected because of

706  
00:29:57,730 --> 00:30:03,400  
burgeoning community interest and usage

707  
00:30:00,548 --> 00:30:06,970  
of these complementary therapies I think

708  
00:30:03,400 --> 00:30:08,320  
that means market forces one response in

709  
00:30:06,970 --> 00:30:10,720  
defense of running such courses

710  
00:30:08,319 --> 00:30:13,599  
suggested that the students were sincere

711  
00:30:10,720 --> 00:30:16,870  
in their beliefs creationists are

712  
00:30:13,599 --> 00:30:19,240  
sincere in their beliefs UFO proponents

713

00:30:16,869 --> 00:30:22,239  
are sincere in their beliefs or

714  
00:30:19,240 --> 00:30:25,210  
eccentric individuals in this world are

715  
00:30:22,240 --> 00:30:27,250  
sincere in their beliefs anyway despite

716  
00:30:25,210 --> 00:30:29,950  
the protestations of those who bothered

717  
00:30:27,250 --> 00:30:32,349  
to reply it is still evident that under

718  
00:30:29,950 --> 00:30:34,360  
the imprimatur of universities and their

719  
00:30:32,349 --> 00:30:37,298  
reputation for academic probity and

720  
00:30:34,359 --> 00:30:39,339  
accuracy the public students are no

721  
00:30:37,298 --> 00:30:41,319  
doubt many academics would regard these

722  
00:30:39,339 --> 00:30:44,288  
areas of activity as having been

723  
00:30:41,319 --> 00:30:46,240  
endorsed by such institutions no matter

724  
00:30:44,288 --> 00:30:48,460  
how much the subject is encased in

725  
00:30:46,240 --> 00:30:50,798  
references to research and evidence the

726  
00:30:48,460 --> 00:30:53,679  
view is that these areas have been given

727  
00:30:50,798 --> 00:30:55,779

the seal of approval and in many

728

00:30:53,679 --> 00:30:57,519  
instances that is exactly what has

729

00:30:55,779 --> 00:30:59,859  
happened the fact that several

730

00:30:57,519 --> 00:31:01,808  
universities have set up clinics in

731

00:30:59,859 --> 00:31:04,240  
acupuncture chiropractic Chinese

732

00:31:01,808 --> 00:31:06,058  
medicine and naturopathy to treat

733

00:31:04,240 --> 00:31:08,288  
students staff and the public is

734

00:31:06,058 --> 00:31:10,899  
indication enough that this is not a

735

00:31:08,288 --> 00:31:13,599  
moot point but a statement that yes they

736

00:31:10,900 --> 00:31:16,809  
are proven despite the fact that they

737

00:31:13,599 --> 00:31:19,209  
are not do geology courses text dowsing

738

00:31:16,808 --> 00:31:22,119  
the paleontology courses teach

739

00:31:19,210 --> 00:31:22,979  
creationism to astronomy causes teets

740

00:31:22,119 --> 00:31:26,018  
astrology

741

00:31:22,979 --> 00:31:28,929  
so why teach homeopathy in medical

742  
00:31:26,019 --> 00:31:31,058  
courses universities need to seriously

743  
00:31:28,929 --> 00:31:32,950  
justify the inclusion of such course

744  
00:31:31,058 --> 00:31:35,469  
it's not on the basis of deference to

745  
00:31:32,950 --> 00:31:37,690  
some internal industry standards bodies

746  
00:31:35,469 --> 00:31:39,298  
but by applying a little critical

747  
00:31:37,690 --> 00:31:41,798  
thinking for themselves and really

748  
00:31:39,298 --> 00:31:44,679  
seeing if any of these practices are

749  
00:31:41,798 --> 00:31:46,690  
evidence-based just like they do with

750  
00:31:44,679 --> 00:31:49,809  
anomalous claims in physics or chemistry

751  
00:31:46,690 --> 00:31:51,759  
or archaeology or any other science if

752  
00:31:49,808 --> 00:31:53,319  
something seems out of the ordinary and

753  
00:31:51,759 --> 00:31:55,239  
a lot of the claims made by

754  
00:31:53,319 --> 00:31:57,548  
practitioners are out of the ordinary

755  
00:31:55,239 --> 00:31:59,558  
then universities must investigate

756  
00:31:57,548 --> 00:32:02,108  
before they offer their stamp of

757  
00:31:59,558 --> 00:32:03,700  
approval by and large we feel the

758  
00:32:02,108 --> 00:32:06,329  
response to our inquiries has been

759  
00:32:03,700 --> 00:32:08,679  
pathetic and worrying to say the least

760  
00:32:06,329 --> 00:32:10,918  
finally it's interesting to note that a

761  
00:32:08,679 --> 00:32:13,450  
case has been put to have RMIT's

762  
00:32:10,919 --> 00:32:16,359  
chiropractic pediatric clinic closed

763  
00:32:13,450 --> 00:32:18,548  
because it is quote teaching

764  
00:32:16,358 --> 00:32:21,009  
inappropriate and potentially dangerous

765  
00:32:18,548 --> 00:32:24,700  
techniques that target pregnant women

766  
00:32:21,009 --> 00:32:27,338  
babies infants and children Loretta

767  
00:32:24,700 --> 00:32:29,558  
Marin who has investigated many dubious

768  
00:32:27,338 --> 00:32:32,579  
medical treatments has done a major

769  
00:32:29,558 --> 00:32:35,048  
report criticizing chiropractics claims

770

00:32:32,579 --> 00:32:37,449  
statements from many leading scientists

771  
00:32:35,048 --> 00:32:40,558  
and experts both local and overseas back

772  
00:32:37,450 --> 00:32:43,538  
her up she wants the clinic closed until

773  
00:32:40,558 --> 00:32:45,969  
such time as evidence can be produced

774  
00:32:43,538 --> 00:32:48,999  
that these treatments support the claims

775  
00:32:45,969 --> 00:32:53,099  
made by the course lecturers produce the

776  
00:32:48,999 --> 00:32:53,098  
evidence we wish them live

777  
00:32:57,839 --> 00:33:03,038  
did you know Jeff wag participated in an

778  
00:33:00,759 --> 00:33:04,659  
alien psychic challenge did you know

779  
00:33:03,038 --> 00:33:07,210  
that George Rob is an interstellar

780  
00:33:04,659 --> 00:33:08,919  
singing sensation for these and other

781  
00:33:07,210 --> 00:33:11,110  
stories you won't hear on the skeptic

782  
00:33:08,919 --> 00:33:15,250  
zone go to the bolingbrook babbler

783  
00:33:11,109 --> 00:33:17,079  
that's ww bolingbrook babbler calm if

784  
00:33:15,250 --> 00:33:19,839

you have any doubts just remember this

785

00:33:17,079 --> 00:33:21,759

the SGU couldn't debunk any of our

786

00:33:19,839 --> 00:33:24,189

stories even when we offer them five

787

00:33:21,759 --> 00:33:28,889

dollars so read the bolingbrook babbler

788

00:33:24,190 --> 00:33:37,230

for the unbelievable truth that's ww bol

789

00:33:28,888 --> 00:33:37,229

ing BR oh ok bab bler calm

790

00:33:39,059 --> 00:33:48,069

now it's time for dr. Rachel reports

791

00:33:42,430 --> 00:33:51,310

with dr. Rachel Dunlop hello listeners

792

00:33:48,069 --> 00:33:53,319

and welcome to dr. ecchi reports an easy

793

00:33:51,309 --> 00:33:55,329

way to make products and high-tech and

794

00:33:53,319 --> 00:33:58,089

scientific is to associate them with

795

00:33:55,329 --> 00:34:00,189

words that sound science ii i call this

796

00:33:58,089 --> 00:34:01,839

name out of a hat science because the

797

00:34:00,190 --> 00:34:03,940

results make about as much sense as

798

00:34:01,839 --> 00:34:06,730

randomly pulling scientific terms out of

799  
00:34:03,940 --> 00:34:08,769  
a hat and sprinkling them on a page one

800  
00:34:06,730 --> 00:34:10,690  
industry particularly guilty of such

801  
00:34:08,769 --> 00:34:13,780  
crimes against science is the cosmedix

802  
00:34:10,690 --> 00:34:16,480  
caper indeed choice magazine made an

803  
00:34:13,780 --> 00:34:19,530  
example of l'oreal elvive for exactly

804  
00:34:16,480 --> 00:34:21,880  
this behavior at the 2009 shonky Awards

805  
00:34:19,530 --> 00:34:24,519  
the consumer watchdog was quick to

806  
00:34:21,880 --> 00:34:26,889  
remind us however that loriella by no

807  
00:34:24,519 --> 00:34:29,469  
means alone in blinding us with dodgy

808  
00:34:26,889 --> 00:34:31,870  
science they noted terms such as

809  
00:34:29,469 --> 00:34:34,148  
clinically proven Domo clinical trials

810  
00:34:31,869 --> 00:34:36,668  
and in vitro testing are littered

811  
00:34:34,148 --> 00:34:38,679  
throughout cosmetics advertising and to

812  
00:34:36,668 --> 00:34:41,079  
highlight their disdain choice made a

813  
00:34:38,679 --> 00:34:44,110  
hilarious parody video for a product

814  
00:34:41,079 --> 00:34:45,878  
they called Pro fecal be if you watch

815  
00:34:44,110 --> 00:34:48,070  
the video online and you can find the

816  
00:34:45,878 --> 00:34:50,440  
links in my blog post watch it to the

817  
00:34:48,070 --> 00:34:52,379  
very end where choice really tells us

818  
00:34:50,440 --> 00:34:54,820  
what they think of cosmetics companies

819  
00:34:52,378 --> 00:34:56,980  
but the hijacking of scientific

820  
00:34:54,820 --> 00:35:00,100  
terminology and technology is certainly

821  
00:34:56,980 --> 00:35:01,929  
not confined to cosmetics products every

822  
00:35:00,099 --> 00:35:04,329  
second product advertised on television

823  
00:35:01,929 --> 00:35:07,089  
these days seems to claim to be

824  
00:35:04,329 --> 00:35:09,699  
scientifically tested or validated often

825  
00:35:07,090 --> 00:35:11,500  
in a clinical trial the results in such

826  
00:35:09,699 --> 00:35:14,019  
fine print that you can hardly read them

827

00:35:11,500 --> 00:35:15,579  
and marketing people know that dusting

828  
00:35:14,019 --> 00:35:18,579  
your product with a light sprinkling of

829  
00:35:15,579 --> 00:35:22,090  
quantum or clinically tested can be a

830  
00:35:18,579 --> 00:35:24,190  
lucrative exercise and hey if it sounds

831  
00:35:22,090 --> 00:35:26,680  
science ii and it looks technical then

832  
00:35:24,190 --> 00:35:29,769  
it must work right who needs that pesky

833  
00:35:26,679 --> 00:35:31,719  
scientific evidence so hair testing is a

834  
00:35:29,769 --> 00:35:33,940  
very good example of this it's actually

835  
00:35:31,719 --> 00:35:36,159  
a legitimate scientific technique and

836  
00:35:33,940 --> 00:35:38,349  
it's used in drug testing in sport and

837  
00:35:36,159 --> 00:35:40,869  
also for the detection of heavy metals

838  
00:35:38,349 --> 00:35:43,179  
in poisoning the concept is

839  
00:35:40,869 --> 00:35:45,339  
straightforward blood supply from around

840  
00:35:43,179 --> 00:35:47,379  
the hair follicle provides nutrients and

841  
00:35:45,340 --> 00:35:49,960

other extraneous material to the hair

842

00:35:47,380 --> 00:35:52,180  
including any ingested drugs and

843

00:35:49,960 --> 00:35:53,440  
medications and heavy metals and then

844

00:35:52,179 --> 00:35:56,529  
these are absorbed into the hair shaft

845

00:35:53,440 --> 00:35:58,358  
and carried along with growth now

846

00:35:56,530 --> 00:36:00,490  
through a complex process of enzyme or

847

00:35:58,358 --> 00:36:02,558  
acid digestion to break the chemical

848

00:36:00,489 --> 00:36:04,358  
bonds between the hair and various

849

00:36:02,559 --> 00:36:07,329  
high-end detection techniques such as

850

00:36:04,358 --> 00:36:08,500  
mass spectrometry and hplc the

851

00:36:07,329 --> 00:36:10,960  
substances of interest can be

852

00:36:08,500 --> 00:36:13,059  
sensitively measured but as you might

853

00:36:10,960 --> 00:36:14,710  
expect hair testing in alternative

854

00:36:13,059 --> 00:36:17,019  
medicine it doesn't bother with all the

855

00:36:14,710 --> 00:36:19,119  
fiddly science steps described above and

856  
00:36:17,019 --> 00:36:22,269  
by the way I've only described just a

857  
00:36:19,119 --> 00:36:23,980  
few rather you just need a machine with

858  
00:36:22,269 --> 00:36:27,099  
some flickering dials some flashing

859  
00:36:23,980 --> 00:36:29,170  
lights and a sprinkling of quantum now

860  
00:36:27,099 --> 00:36:31,240  
as it happens I first came across one of

861  
00:36:29,170 --> 00:36:33,789  
these machines at a well-being festival

862  
00:36:31,239 --> 00:36:35,529  
where it was promoted as quite the

863  
00:36:33,789 --> 00:36:38,980  
affordable way to find out what is

864  
00:36:35,530 --> 00:36:41,380  
making you sick for 195 dollars which is

865  
00:36:38,980 --> 00:36:42,969  
apparently affordable a small lock of

866  
00:36:41,380 --> 00:36:45,550  
hair was placed in an empty beaker

867  
00:36:42,969 --> 00:36:47,199  
lights flashed dials flickered and a

868  
00:36:45,550 --> 00:36:50,289  
list of food allergies appeared on a

869  
00:36:47,199 --> 00:36:52,358  
printer now apparently if I avoided

870  
00:36:50,289 --> 00:36:54,670  
these foods I could cure a wide range of

871  
00:36:52,358 --> 00:36:56,789  
ills including such things as eczema

872  
00:36:54,670 --> 00:36:58,690  
asthma irritable bowel syndrome

873  
00:36:56,789 --> 00:37:00,909  
headaches premenstrual tension

874  
00:36:58,690 --> 00:37:04,630  
flatulence fatigue and the list goes on

875  
00:37:00,909 --> 00:37:06,489  
and when it came to sensitivity this

876  
00:37:04,630 --> 00:37:08,559  
machine must have been using an awful

877  
00:37:06,489 --> 00:37:10,808  
lot of quantum because according to the

878  
00:37:08,559 --> 00:37:12,790  
pamphlet I was given it could tell if I

879  
00:37:10,809 --> 00:37:15,460  
was allergic to coca-cola or the diet

880  
00:37:12,789 --> 00:37:17,588  
variety and even differentiate between

881  
00:37:15,460 --> 00:37:20,199  
allergies across different brands of

882  
00:37:17,588 --> 00:37:22,599  
chocolate so being slightly skeptical

883  
00:37:20,199 --> 00:37:24,939  
about these claims my colleague decided

884

00:37:22,599 --> 00:37:27,430  
to put the technology to the test by

885  
00:37:24,940 --> 00:37:29,889  
sending via mail order two pieces of

886  
00:37:27,429 --> 00:37:32,649  
hair from the same person but identified

887  
00:37:29,889 --> 00:37:35,048  
as from different people the results

888  
00:37:32,650 --> 00:37:36,970  
came back as predicted the profiles of

889  
00:37:35,048 --> 00:37:39,460  
the two peoples allergies were totally

890  
00:37:36,969 --> 00:37:42,039  
different except for one interesting

891  
00:37:39,460 --> 00:37:45,250  
thing apparently both persons were

892  
00:37:42,039 --> 00:37:47,858  
allergic to carrots so obviously this is

893  
00:37:45,250 --> 00:37:49,929  
not a rigorous scientific test but such

894  
00:37:47,858 --> 00:37:52,150  
divergent preliminary results did not

895  
00:37:49,929 --> 00:37:54,848  
instill me with confidence about the

896  
00:37:52,150 --> 00:37:58,568  
accuracy of this machine or indeed that

897  
00:37:54,849 --> 00:38:00,160  
my 195 dollars was well spent perhaps a

898  
00:37:58,568 --> 00:38:02,380

better name for this quantum machine

899

00:38:00,159 --> 00:38:04,690

would be a random allergy generating

900

00:38:02,380 --> 00:38:06,019

machine now I don't pretend to

901

00:38:04,690 --> 00:38:07,789

understand quantum mech

902

00:38:06,019 --> 00:38:09,349

Phoenix and according to physicist

903

00:38:07,789 --> 00:38:12,079

Richard Feynman who has been credited

904

00:38:09,349 --> 00:38:14,089

with saying quote it is safe to say that

905

00:38:12,079 --> 00:38:17,239

no one understands quantum mechanics

906

00:38:14,090 --> 00:38:18,740

apparently I'm not alone now beyond

907

00:38:17,239 --> 00:38:20,119

understanding that the discipline deals

908

00:38:18,739 --> 00:38:22,639

with the world of atoms and subatomic

909

00:38:20,119 --> 00:38:24,949

particles I'm as clueless as the next

910

00:38:22,639 --> 00:38:27,739

bloke but I do know one thing I know

911

00:38:24,949 --> 00:38:30,289

what's not quantum mechanics it seems

912

00:38:27,739 --> 00:38:32,629

the people with 195 dollars a pop magic

913  
00:38:30,289 --> 00:38:34,219  
hair testing quantum machine might need

914  
00:38:32,630 --> 00:38:36,710  
to step up for their Nobel Prize in

915  
00:38:34,219 --> 00:38:39,980  
Physics or they're just trying to blind

916  
00:38:36,710 --> 00:38:41,809  
us with science you decide this week's

917  
00:38:39,980 --> 00:38:43,670  
dr. Richie reports has also been

918  
00:38:41,809 --> 00:38:46,250  
published as a blog as part of the

919  
00:38:43,670 --> 00:38:49,820  
Fairfax newspapers blogs called national

920  
00:38:46,250 --> 00:38:51,860  
times you can find it through the age wa

921  
00:38:49,820 --> 00:38:53,930  
today the Brisbane Times and The Sydney

922  
00:38:51,860 --> 00:38:56,269  
Morning Herald if you search for the

923  
00:38:53,929 --> 00:38:58,730  
National times and skeptic science I'm a

924  
00:38:56,269 --> 00:39:00,650  
guest blogger for this week and if you

925  
00:38:58,730 --> 00:39:02,900  
have some time please head over so you

926  
00:39:00,650 --> 00:39:04,840  
can increase my page heads and also if

927  
00:39:02,900 --> 00:39:07,700  
you feel like it leave me a comment and

928  
00:39:04,840 --> 00:39:10,329  
until next time this has been dr. Richie

929  
00:39:07,699 --> 00:39:10,329  
reports

930  
00:39:10,739 --> 00:39:16,358  
dr. Rachel Dunlop is one of Australia's

931  
00:39:13,570 --> 00:39:17,760  
foremost media commentators in matters

932  
00:39:16,358 --> 00:39:20,319  
concerning so-called alternative

933  
00:39:17,760 --> 00:39:24,100  
medicine she has appeared on national

934  
00:39:20,320 --> 00:39:26,410  
radio and national television dr. H E is

935  
00:39:24,099 --> 00:39:30,368  
available for interviews and you can

936  
00:39:26,409 --> 00:39:33,569  
contact her at Rachel at skeptic zone

937  
00:39:30,369 --> 00:39:33,570  
dot TV

938  
00:39:37,108 --> 00:39:44,469  
hi I'm a skeptic and I'm before uh yeah

939  
00:39:42,460 --> 00:39:47,440  
I'm pretty sure you're not you shut up

940  
00:39:44,469 --> 00:39:50,409  
y'all I'm Bigfoot I'm running wild all

941

00:39:47,440 --> 00:39:54,700  
over the US of A well you're not very

942  
00:39:50,409 --> 00:39:58,029  
well documented says you I live trax

943  
00:39:54,699 --> 00:39:59,949  
possum innards all over the place well

944  
00:39:58,030 --> 00:40:03,339  
my name is Blake Smith and along with my

945  
00:39:59,949 --> 00:40:05,858  
co-hosts Benjamin Radford and dr. Karen

946  
00:40:03,338 --> 00:40:07,599  
stoles no we take a skeptical look at

947  
00:40:05,858 --> 00:40:10,929  
the evidence for all kinds of monsters

948  
00:40:07,599 --> 00:40:14,200  
on our show monster talk other monsters

949  
00:40:10,929 --> 00:40:16,659  
like who well our show is pretty new but

950  
00:40:14,199 --> 00:40:19,838  
we plan to take a look at Lake Monsters

951  
00:40:16,659 --> 00:40:23,009  
sea monsters Mothman the chupacabra the

952  
00:40:19,838 --> 00:40:26,529  
Yeti or Aang pendek ghosts ghouls

953  
00:40:23,010 --> 00:40:28,150  
goblins zombies demons and we might even

954  
00:40:26,530 --> 00:40:30,580  
check out the monster that lurks under

955  
00:40:28,150 --> 00:40:33,608

your bed or in your closet hey you

956

00:40:30,579 --> 00:40:35,529

didn't say my name in that list honestly

957

00:40:33,608 --> 00:40:37,329

we've already done two episodes on

958

00:40:35,530 --> 00:40:40,119

Bigfoot but the top it does keep coming

959

00:40:37,329 --> 00:40:44,588

up hey I know where there's a big ol

960

00:40:40,119 --> 00:40:48,338

monster where be my pants don't go there

961

00:40:44,588 --> 00:40:49,929

instead good at monster talk org or

962

00:40:48,338 --> 00:40:52,389

lookout monster talk on your favorite

963

00:40:49,929 --> 00:41:02,259

podcast aggregator you mean our tunes

964

00:40:52,389 --> 00:41:03,710

shut up Bigfoot here's my not spooky

965

00:41:02,260 --> 00:41:06,820

action

966

00:41:03,710 --> 00:41:06,820

at the distance

967

00:41:07,400 --> 00:41:12,059

well we got something for you today I

968

00:41:10,108 --> 00:41:13,799

tell you we've got mike dawson here i'm

969

00:41:12,059 --> 00:41:15,690

in a room that i'll just let you

970  
00:41:13,800 --> 00:41:17,430  
describe it Mike i mean i've seen so

971  
00:41:15,690 --> 00:41:20,190  
i've been in some unusual rooms and this

972  
00:41:17,429 --> 00:41:22,649  
is a one of the most unusual what is

973  
00:41:20,190 --> 00:41:23,929  
this room full of i supposed to be a

974  
00:41:22,650 --> 00:41:27,200  
dining room but it's absolutely full of

975  
00:41:23,929 --> 00:41:31,618  
castle museum quality dinosaur bits

976  
00:41:27,199 --> 00:41:32,939  
mainly skulls and skulls from all sorts

977  
00:41:31,619 --> 00:41:34,440  
of period okay I'm just going to pick

978  
00:41:32,940 --> 00:41:37,950  
one at random I'll just tap it so

979  
00:41:34,440 --> 00:41:40,289  
listening in here and that's a tea that

980  
00:41:37,949 --> 00:41:42,539  
was flicking then what is that describe

981  
00:41:40,289 --> 00:41:44,460  
the size and what animal it was that's a

982  
00:41:42,539 --> 00:41:46,440  
fighter saw which was a version of a

983  
00:41:44,460 --> 00:41:48,539  
crocodile I wasn't a crocodile's but

984  
00:41:46,440 --> 00:41:51,510  
similar to a crocodile from the that

985  
00:41:48,539 --> 00:41:54,000  
would be Triassic period so that's 250

986  
00:41:51,510 --> 00:41:57,450  
million year old from America that one

987  
00:41:54,000 --> 00:42:00,000  
and these are casts of diggings that

988  
00:41:57,449 --> 00:42:02,000  
just to explain how you got it well I

989  
00:42:00,000 --> 00:42:05,760  
got that from the museum they run

990  
00:42:02,000 --> 00:42:07,260  
normally excavated on a dig site and

991  
00:42:05,760 --> 00:42:08,609  
then they're reconstructed put together

992  
00:42:07,260 --> 00:42:10,290  
and then do a cast of them which is

993  
00:42:08,608 --> 00:42:12,630  
normally what you see the museum it's

994  
00:42:10,289 --> 00:42:14,608  
not the original snom near cast and I

995  
00:42:12,630 --> 00:42:18,809  
swap with museums for other castes I've

996  
00:42:14,608 --> 00:42:21,389  
got or buy them all yeah accumulate them

997  
00:42:18,809 --> 00:42:25,130  
in a little way I can and that's a cast

998

00:42:21,389 --> 00:42:27,719  
of a of a foetus or so how many people

999  
00:42:25,130 --> 00:42:30,059  
do you run into on the internet and

1000  
00:42:27,719 --> 00:42:33,149  
around the place anywhere that are

1001  
00:42:30,059 --> 00:42:35,909  
really into paleontology bone casts it's

1002  
00:42:33,150 --> 00:42:37,410  
quite a few really quite a few and what

1003  
00:42:35,909 --> 00:42:39,088  
with all the collectors we talk to

1004  
00:42:37,409 --> 00:42:41,838  
there's a fascination and intense

1005  
00:42:39,088 --> 00:42:44,429  
interest what fascinates you about

1006  
00:42:41,838 --> 00:42:46,650  
dinosaur skulls just a little kid that

1007  
00:42:44,429 --> 00:42:48,210  
never grew up I was writing to domicile

1008  
00:42:46,650 --> 00:42:50,130  
I was little then I discovered women

1009  
00:42:48,210 --> 00:42:52,108  
then thought there's no future in that

1010  
00:42:50,130 --> 00:42:53,550  
and I've gone back to my first love now

1011  
00:42:52,108 --> 00:42:55,949  
do you remember what the first time you

1012  
00:42:53,550 --> 00:42:57,750

saw a dinosaur on the television or or

1013

00:42:55,949 --> 00:43:00,989

in print you remember what it was we

1014

00:42:57,750 --> 00:43:03,358

went hey that's cool lipton tea had

1015

00:43:00,989 --> 00:43:06,149

collectors cards and there was a silver

1016

00:43:03,358 --> 00:43:07,858

Triceratops and I thought how long's

1017

00:43:06,150 --> 00:43:09,300

this been going on I've gotta know more

1018

00:43:07,858 --> 00:43:12,449

about a silver try sir I could have

1019

00:43:09,300 --> 00:43:14,039

incited I call the try syrup pots and I

1020

00:43:12,449 --> 00:43:15,659

just got hooked I then I discovered

1021

00:43:14,039 --> 00:43:18,980

t-rex oh that was it good night nurse

1022

00:43:15,659 --> 00:43:20,299

now we've got a t-rex skull

1023

00:43:18,980 --> 00:43:22,070

you're on our right is that correct

1024

00:43:20,300 --> 00:43:23,720

that's right yep now what would be the

1025

00:43:22,070 --> 00:43:25,970

age of that and we're about where that

1026

00:43:23,719 --> 00:43:28,250

had come from that's the one that barn

1027  
00:43:25,969 --> 00:43:31,879  
and brown found in 1907 that's North

1028  
00:43:28,250 --> 00:43:33,920  
America in Montana and it's not a big

1029  
00:43:31,880 --> 00:43:37,250  
one that there's two types is graceful

1030  
00:43:33,920 --> 00:43:39,230  
and robust that's a grace all version so

1031  
00:43:37,250 --> 00:43:42,019  
that is possibly a mile the miles are

1032  
00:43:39,230 --> 00:43:43,039  
smaller than the females so that's from

1033  
00:43:42,019 --> 00:43:47,358  
the American Museum of Natural History

1034  
00:43:43,039 --> 00:43:49,099  
that one and it's um look what's its

1035  
00:43:47,358 --> 00:43:52,159  
size I'm described all i got this is

1036  
00:43:49,099 --> 00:43:54,079  
what sounds like when you tap it so it's

1037  
00:43:52,159 --> 00:43:55,489  
a fairly sizable solid thing what is

1038  
00:43:54,079 --> 00:43:58,009  
this what's the size and dimensions of

1039  
00:43:55,489 --> 00:44:00,979  
that the skulls about five foot long the

1040  
00:43:58,010 --> 00:44:04,960  
animal I should talk in mythic the

1041  
00:44:00,980 --> 00:44:08,240  
animal was 14 meters long was up to

1042  
00:44:04,960 --> 00:44:10,210  
seven to eight ton the reason most

1043  
00:44:08,239 --> 00:44:12,439  
recent one never knows about school sue

1044  
00:44:10,210 --> 00:44:15,320  
it was thirty percent bigger than this

1045  
00:44:12,440 --> 00:44:17,210  
one Wow so it's a man it just dominates

1046  
00:44:15,320 --> 00:44:20,000  
the room you've got here there are so

1047  
00:44:17,210 --> 00:44:21,440  
many things and in the case just to make

1048  
00:44:20,000 --> 00:44:24,199  
it just that little bit extra creep in

1049  
00:44:21,440 --> 00:44:26,000  
case the dinosaur jaws weren't scary

1050  
00:44:24,199 --> 00:44:28,879  
enough for you we've got a selection of

1051  
00:44:26,000 --> 00:44:30,260  
hominids skulls now so yeah so they're

1052  
00:44:28,880 --> 00:44:31,910  
not the actual skull that was around at

1053  
00:44:30,260 --> 00:44:33,200  
the time they've been all you want

1054  
00:44:31,909 --> 00:44:34,969  
material is it just a resin what are

1055

00:44:33,199 --> 00:44:36,559  
they use for them most of the trees and

1056  
00:44:34,969 --> 00:44:38,239  
summits plaster I've copied some in

1057  
00:44:36,559 --> 00:44:40,130  
plaster in fact I've done some in risen

1058  
00:44:38,239 --> 00:44:43,250  
to the majority of the stuff in there's

1059  
00:44:40,130 --> 00:44:45,019  
risen it's a heart of wearing plaster

1060  
00:44:43,250 --> 00:44:46,849  
you know you drop it it smashes with the

1061  
00:44:45,019 --> 00:44:49,730  
resin that doesn't it's easier to handle

1062  
00:44:46,849 --> 00:44:52,670  
I'm slider to it's an interesting

1063  
00:44:49,730 --> 00:44:54,440  
obsession and I'm just wondering to me

1064  
00:44:52,670 --> 00:44:56,900  
looking at them from an outside not a

1065  
00:44:54,440 --> 00:44:58,940  
collector great collection of skulls but

1066  
00:44:56,900 --> 00:45:01,039  
i'm just wondering which would be your

1067  
00:44:58,940 --> 00:45:02,900  
favorite and why like I like the one on

1068  
00:45:01,039 --> 00:45:05,900  
the bottom right there because it's got

1069  
00:45:02,900 --> 00:45:08,539

that spooky cavity look in the orbit of

1070

00:45:05,900 --> 00:45:10,400

the eyes but what's your favorite from

1071

00:45:08,539 --> 00:45:11,570

the selection here at and why because to

1072

00:45:10,400 --> 00:45:13,820

the outsider they look fairly similar

1073

00:45:11,570 --> 00:45:16,400

Leah what makes one stand out for you

1074

00:45:13,820 --> 00:45:17,869

I'd say at this collection here possibly

1075

00:45:16,400 --> 00:45:20,420

the black skull the second on the left

1076

00:45:17,869 --> 00:45:23,900

there hmm that looks very primitive but

1077

00:45:20,420 --> 00:45:25,970

got the the classic low forward that's

1078

00:45:23,900 --> 00:45:30,410

not far removed from that very old

1079

00:45:25,969 --> 00:45:32,230

that's Australopithecus the one next to

1080

00:45:30,409 --> 00:45:34,000

the little tongue child

1081

00:45:32,230 --> 00:45:37,570

the skulls are Road Iranian and you can

1082

00:45:34,000 --> 00:45:40,000

see the shape of the brain where clay is

1083

00:45:37,570 --> 00:45:41,920

filled the braincase and hardened and

1084  
00:45:40,000 --> 00:45:43,480  
then the bone is rotted away and it's

1085  
00:45:41,920 --> 00:45:45,849  
left the impression of the brain I like

1086  
00:45:43,480 --> 00:45:47,740  
that one and the thing to remember for

1087  
00:45:45,849 --> 00:45:49,420  
you to make a cast of all these that's

1088  
00:45:47,739 --> 00:45:52,689  
means that all these creatures have had

1089  
00:45:49,420 --> 00:45:54,820  
to die in the correct circumstances to

1090  
00:45:52,690 --> 00:45:56,079  
cause a fossil which would be it's

1091  
00:45:54,820 --> 00:45:58,450  
pretty rare it's pretty rare for an

1092  
00:45:56,079 --> 00:46:00,690  
animal the fossil fossilized conditions

1093  
00:45:58,449 --> 00:46:02,799  
got to be right that's got to be

1094  
00:46:00,690 --> 00:46:04,690  
preferably not scavenged by other

1095  
00:46:02,800 --> 00:46:07,840  
animals and then covered fairly quickly

1096  
00:46:04,690 --> 00:46:09,820  
with the flood water normally your sand

1097  
00:46:07,840 --> 00:46:12,608  
and then the collisions got to be right

1098  
00:46:09,820 --> 00:46:14,740  
for minerals to seep into the bones that

1099  
00:46:12,608 --> 00:46:17,500  
the actual bone is still there but the

1100  
00:46:14,739 --> 00:46:20,289  
little gaps in between the bone are

1101  
00:46:17,500 --> 00:46:22,510  
filled with minerals flooded in both by

1102  
00:46:20,289 --> 00:46:24,279  
floodwater so you got that's why they're

1103  
00:46:22,510 --> 00:46:25,720  
so heavy you got the minerals filling

1104  
00:46:24,280 --> 00:46:28,780  
the little gaps in the bone but the

1105  
00:46:25,719 --> 00:46:31,779  
actual bunch to learn and I thought the

1106  
00:46:28,780 --> 00:46:33,490  
t-rex the theme I thought the mail t-rex

1107  
00:46:31,780 --> 00:46:35,859  
skull was a big thing but then we go

1108  
00:46:33,489 --> 00:46:39,309  
into your dining room and get under the

1109  
00:46:35,858 --> 00:46:40,840  
house what is this here I look you

1110  
00:46:39,309 --> 00:46:43,840  
thought the noise the other one made was

1111  
00:46:40,840 --> 00:46:45,760  
big listen to this that's the biggie

1112

00:46:43,840 --> 00:46:47,430  
what what am i staring into the barrel

1113  
00:46:45,760 --> 00:46:51,010  
of and there's even a tongue in this one

1114  
00:46:47,429 --> 00:46:52,569  
this is a reconstruction of t-rex the

1115  
00:46:51,010 --> 00:46:54,369  
head of a t-rex that's that would have

1116  
00:46:52,570 --> 00:46:56,170  
looked in life as anyone successfully

1117  
00:46:54,369 --> 00:46:58,119  
worked out what they might have sounded

1118  
00:46:56,170 --> 00:47:01,300  
like by recreating their their bones

1119  
00:46:58,119 --> 00:47:02,890  
throat structure not really every movie

1120  
00:47:01,300 --> 00:47:04,539  
you see with the dinosaur with a t-rex

1121  
00:47:02,889 --> 00:47:05,650  
in it they were roaring I don't think

1122  
00:47:04,539 --> 00:47:07,179  
the would have roared like that because

1123  
00:47:05,650 --> 00:47:09,400  
to scare the prior way when you're all

1124  
00:47:07,179 --> 00:47:12,399  
alone zone get around roaring when

1125  
00:47:09,400 --> 00:47:14,889  
they're hunting it so they would have

1126  
00:47:12,400 --> 00:47:16,599

roared I guess but I can't sir nothing

1127

00:47:14,889 --> 00:47:20,230

that's what they sounded like yeah and

1128

00:47:16,599 --> 00:47:22,539

this is just amazing how long have you

1129

00:47:20,230 --> 00:47:24,760

been a clicker you mentioned as a kid

1130

00:47:22,539 --> 00:47:26,800

but this this is something that takes a

1131

00:47:24,760 --> 00:47:30,310

lot of time this is something that takes

1132

00:47:26,800 --> 00:47:32,109

almost obsessive compulsive it's a sort

1133

00:47:30,309 --> 00:47:34,779

of thing to be able to do because you is

1134

00:47:32,108 --> 00:47:36,309

it when you're making the resin skulls

1135

00:47:34,780 --> 00:47:38,109

there in your studio do you just get in

1136

00:47:36,309 --> 00:47:40,599

the zone and notice that out six hours

1137

00:47:38,108 --> 00:47:42,880

of God very much I've been playing

1138

00:47:40,599 --> 00:47:44,230

around for about 20 years but you get

1139

00:47:42,880 --> 00:47:45,430

obsessed with it

1140

00:47:44,230 --> 00:47:47,079

originally the other day somebody

1141  
00:47:45,429 --> 00:47:48,579  
pointed out that if you have a

1142  
00:47:47,079 --> 00:47:50,799  
collection and parts of the collection

1143  
00:47:48,579 --> 00:47:52,869  
are in the bedroom you're obsessive what

1144  
00:47:50,800 --> 00:47:54,880  
parts would you put in the bedrooms it

1145  
00:47:52,869 --> 00:47:57,070  
bits that you've got to get to or they

1146  
00:47:54,880 --> 00:47:58,720  
your favorite bits I mean is that how it

1147  
00:47:57,070 --> 00:47:59,590  
works if the bits are in the bedrooms

1148  
00:47:58,719 --> 00:48:01,329  
that mean that's something you got to

1149  
00:47:59,590 --> 00:48:03,490  
work on or was that one you can't let

1150  
00:48:01,329 --> 00:48:05,019  
Ali aside that's just convenience where

1151  
00:48:03,489 --> 00:48:06,579  
you're storing I've got stuff stored in

1152  
00:48:05,019 --> 00:48:09,429  
every room it's just where there's a

1153  
00:48:06,579 --> 00:48:11,230  
hole you can put something in and what

1154  
00:48:09,429 --> 00:48:14,169  
does the process like to work on them

1155  
00:48:11,230 --> 00:48:17,460  
with the resin um it's it's part

1156  
00:48:14,170 --> 00:48:19,630  
sculptor part archaeologist part

1157  
00:48:17,460 --> 00:48:22,929  
palaeontologists it's you know part

1158  
00:48:19,630 --> 00:48:25,720  
psychiatrist you wanna come with palia

1159  
00:48:22,929 --> 00:48:27,190  
take Belliard technology a big I

1160  
00:48:25,719 --> 00:48:29,889  
wouldn't be classed as a paleontologist

1161  
00:48:27,190 --> 00:48:31,179  
of the classes of paleo technician where

1162  
00:48:29,889 --> 00:48:34,089  
you're reconstructing missing bits

1163  
00:48:31,179 --> 00:48:36,129  
filling in bits that are missing and a

1164  
00:48:34,090 --> 00:48:37,780  
little bit of sculpturing you did more

1165  
00:48:36,130 --> 00:48:39,820  
sculpturing with the plaster than you do

1166  
00:48:37,780 --> 00:48:41,650  
with the resin you can't sculpt

1167  
00:48:39,820 --> 00:48:43,539  
reversion all that much so reasons

1168  
00:48:41,650 --> 00:48:45,608  
mainly is for a straight copy once

1169

00:48:43,539 --> 00:48:48,279  
you've got a mold but with plasti do i

1170  
00:48:45,608 --> 00:48:49,659  
do better scope to work well laying on a

1171  
00:48:48,280 --> 00:48:52,960  
minute what we got over here this is

1172  
00:48:49,659 --> 00:48:56,799  
like it looks like the bottom half of a

1173  
00:48:52,960 --> 00:49:00,550  
giant denuded kangaroo complete with hip

1174  
00:48:56,800 --> 00:49:01,810  
joints this is the better to tap it for

1175  
00:49:00,550 --> 00:49:06,070  
the audience they can't tap it and won't

1176  
00:49:01,809 --> 00:49:08,469  
collapse so again fairly solid water

1177  
00:49:06,070 --> 00:49:11,769  
beauty this is the hips and the legs the

1178  
00:49:08,469 --> 00:49:14,589  
basic skeleton of a albertosaurus or

1179  
00:49:11,769 --> 00:49:16,420  
Gorga sauce it was ancestor to t-rex if

1180  
00:49:14,590 --> 00:49:19,510  
you imagine t-rex was a line this was

1181  
00:49:16,420 --> 00:49:22,289  
the leopard and this is just the base of

1182  
00:49:19,510 --> 00:49:25,119  
the skeleton the rest of the skeleton of

1183  
00:49:22,289 --> 00:49:27,250

he's in this room ok now we're I'm

1184

00:49:25,119 --> 00:49:31,240

walking through the frame that's how big

1185

00:49:27,250 --> 00:49:34,809

it is and here we have a room jam-packed

1186

00:49:31,239 --> 00:49:37,239

with again more dinosaur skulls

1187

00:49:34,809 --> 00:49:40,480

including well smaller than the other

1188

00:49:37,239 --> 00:49:42,779

one but that dinosaur is half laughing

1189

00:49:40,480 --> 00:49:45,190

half mocking me Mike what's a story

1190

00:49:42,780 --> 00:49:49,000

that's a Brachiosaurus and they do not

1191

00:49:45,190 --> 00:49:50,380

do mock you because there's nothing in

1192

00:49:49,000 --> 00:49:53,219

the head as you can see that's a skull

1193

00:49:50,380 --> 00:49:56,079

of a Brachiosaurus a car sat in plaster

1194

00:49:53,219 --> 00:49:57,789

that's the skull of the Gorgas source

1195

00:49:56,079 --> 00:50:02,139

that's in the hallway and

1196

00:49:57,789 --> 00:50:04,360

his vertebrae sections there are the the

1197

00:50:02,139 --> 00:50:07,059

rest of it and there's leg bones and

1198  
00:50:04,360 --> 00:50:09,099  
stuff somewhere else armbands these are

1199  
00:50:07,059 --> 00:50:11,679  
the whole skeletons here wow those boxes

1200  
00:50:09,099 --> 00:50:15,099  
are full of specimens up there the room

1201  
00:50:11,679 --> 00:50:17,319  
is very busy in the bone department no I

1202  
00:50:15,099 --> 00:50:19,329  
was thinking with this earlier this

1203  
00:50:17,320 --> 00:50:23,140  
would be great to share with the public

1204  
00:50:19,329 --> 00:50:25,119  
in some way somewhere it had in the

1205  
00:50:23,139 --> 00:50:27,579  
office from anywhere to to put some of

1206  
00:50:25,119 --> 00:50:31,059  
this on show even in temporary basis I

1207  
00:50:27,579 --> 00:50:32,860  
had a couple of things planned and both

1208  
00:50:31,059 --> 00:50:34,509  
one fell through so I'm in a situation

1209  
00:50:32,860 --> 00:50:36,090  
where I'm looking for someone to host

1210  
00:50:34,510 --> 00:50:38,560  
this and I'll share the gate with them

1211  
00:50:36,090 --> 00:50:40,000  
it is a good collection and every kid on

1212  
00:50:38,559 --> 00:50:41,199  
the Box going to want to see it but I've

1213  
00:50:40,000 --> 00:50:44,369  
got to get somewhere where we can

1214  
00:50:41,199 --> 00:50:47,349  
exhibit it so if anyone's interested

1215  
00:50:44,369 --> 00:50:49,659  
contact me and we'll talk yeah my mic

1216  
00:50:47,349 --> 00:50:51,519  
Dawson's got a whole stack of very

1217  
00:50:49,659 --> 00:50:53,710  
interesting dinosaur bones that are

1218  
00:50:51,519 --> 00:50:56,320  
large and will look great if you've got

1219  
00:50:53,710 --> 00:50:57,820  
a museum or an exhibition space there

1220  
00:50:56,320 --> 00:51:00,250  
will be good for them I'm getting

1221  
00:50:57,820 --> 00:51:02,200  
contact us with us here we'll put you in

1222  
00:51:00,250 --> 00:51:04,989  
contact with Mike and maybe you can cut

1223  
00:51:02,199 --> 00:51:07,539  
a deal because like I mean it's filling

1224  
00:51:04,989 --> 00:51:10,269  
his house and it looks great I mean

1225  
00:51:07,539 --> 00:51:12,159  
thing is when you do get kids over here

1226

00:51:10,269 --> 00:51:13,780  
today the kids have a habit of pulling

1227  
00:51:12,159 --> 00:51:15,460  
things off and breaking them even if it

1228  
00:51:13,780 --> 00:51:18,220  
had a bit of a tooth pulled off by an

1229  
00:51:15,460 --> 00:51:20,019  
aggressive kid they have the habit of

1230  
00:51:18,219 --> 00:51:22,000  
sticking the heading in for most teeth

1231  
00:51:20,019 --> 00:51:23,829  
they're gonna hurt themselves that's

1232  
00:51:22,000 --> 00:51:25,630  
what worries me yeah even though the jaw

1233  
00:51:23,829 --> 00:51:27,039  
doesn't move the kid could put his head

1234  
00:51:25,630 --> 00:51:28,360  
in there and do it so yeah so you have

1235  
00:51:27,039 --> 00:51:30,070  
to put a bit of a barrier around this

1236  
00:51:28,360 --> 00:51:31,539  
one there but it's funny yeah even

1237  
00:51:30,070 --> 00:51:34,809  
though they're they're not dead they can

1238  
00:51:31,539 --> 00:51:36,550  
still hurt you even though they're long

1239  
00:51:34,809 --> 00:51:38,619  
dead they can still you do some damage

1240  
00:51:36,550 --> 00:51:39,730

very much so imagine what they would

1241  
00:51:38,619 --> 00:51:42,519  
have been like when they were hunting

1242  
00:51:39,730 --> 00:51:44,199  
you yeah well now it would have been fun

1243  
00:51:42,519 --> 00:51:46,360  
this seemed would have chased you down

1244  
00:51:44,199 --> 00:51:48,039  
at forty kaiser now you would not run

1245  
00:51:46,360 --> 00:51:49,420  
away from them well it's good things

1246  
00:51:48,039 --> 00:51:51,940  
that humans didn't share the planet with

1247  
00:51:49,420 --> 00:51:53,829  
him at the time i don't know i would

1248  
00:51:51,940 --> 00:51:55,030  
like to beam back there yeah look I mean

1249  
00:51:53,829 --> 00:51:58,329  
a lot of people would like to know what

1250  
00:51:55,030 --> 00:51:59,769  
their life but now do you think you

1251  
00:51:58,329 --> 00:52:01,179  
could have got away from them by hiding

1252  
00:51:59,769 --> 00:52:03,009  
on doing something tricky that our big

1253  
00:52:01,179 --> 00:52:05,069  
brain could do or you reckon once that

1254  
00:52:03,010 --> 00:52:08,250  
they'd found you there was no way out I

1255  
00:52:05,070 --> 00:52:10,870  
saw Jurassic Park they can open doors

1256  
00:52:08,250 --> 00:52:11,588  
yeah well don't believe everything

1257  
00:52:10,869 --> 00:52:13,088  
you're seeing

1258  
00:52:11,588 --> 00:52:14,440  
I see fact they also said in Jurassic

1259  
00:52:13,088 --> 00:52:16,268  
Park if you stood still they couldn't

1260  
00:52:14,440 --> 00:52:18,729  
see you these things had the eyes of an

1261  
00:52:16,268 --> 00:52:21,038  
eagle they had excellent vision they

1262  
00:52:18,728 --> 00:52:22,960  
their nose though the two bottles in the

1263  
00:52:21,039 --> 00:52:25,089  
nose curl though wrapped around so they

1264  
00:52:22,960 --> 00:52:26,978  
had extra surface area in the nasal

1265  
00:52:25,088 --> 00:52:29,920  
cavity that they'll smell you that they

1266  
00:52:26,978 --> 00:52:32,468  
led their wife by their nose they're

1267  
00:52:29,920 --> 00:52:35,710  
excellent sense of smell great vision

1268  
00:52:32,469 --> 00:52:37,869  
they there were very amazing animals

1269  
00:52:35,710 --> 00:52:40,298  
these T Rexes and now you wouldn't get

1270  
00:52:37,869 --> 00:52:42,039  
away from them and after all it took a

1271  
00:52:40,298 --> 00:52:44,440  
massive asteroid strike to get rid of

1272  
00:52:42,039 --> 00:52:46,749  
them didn't it very much so yeah the KT

1273  
00:52:44,440 --> 00:52:49,568  
event yeah but figure that's what white

1274  
00:52:46,748 --> 00:52:51,429  
did a gap all the big stuff and but

1275  
00:52:49,568 --> 00:52:53,318  
after the KT event we've got something

1276  
00:52:51,429 --> 00:52:55,088  
that's from our very own continent here

1277  
00:52:53,318 --> 00:52:57,400  
please describe what this one is to me

1278  
00:52:55,088 --> 00:52:58,778  
it looks like well what's what's it a

1279  
00:52:57,400 --> 00:53:00,729  
distant relative of that we have now

1280  
00:52:58,778 --> 00:53:02,199  
well it's so do you have to do the

1281  
00:53:00,728 --> 00:53:05,108  
tapping thing that's how we get things

1282  
00:53:02,199 --> 00:53:09,518  
in honor so it's a bit smaller but

1283

00:53:05,108 --> 00:53:11,380  
that's that's a ancestor to the monitor

1284  
00:53:09,518 --> 00:53:13,808  
lizards or goannas that's called mega

1285  
00:53:11,380 --> 00:53:16,028  
lainnya Prisca lived in Australia up

1286  
00:53:13,809 --> 00:53:18,278  
till about six thousand years ago very

1287  
00:53:16,028 --> 00:53:21,940  
recent it was an ambush hunt it's like a

1288  
00:53:18,278 --> 00:53:23,710  
big Komodo dragon I was an ambush killer

1289  
00:53:21,940 --> 00:53:25,809  
would just lay near a waterfall aboard a

1290  
00:53:23,710 --> 00:53:27,699  
whole wait for Diprotodon or something

1291  
00:53:25,809 --> 00:53:30,579  
to come up to have a drink and just grab

1292  
00:53:27,699 --> 00:53:31,989  
them and lacerate the legs and there

1293  
00:53:30,579 --> 00:53:33,969  
wouldn't get far cause of dietary shock

1294  
00:53:31,989 --> 00:53:35,499  
and loss of blood and that's what I

1295  
00:53:33,969 --> 00:53:38,108  
alligators get up to these days too

1296  
00:53:35,498 --> 00:53:39,968  
pretty much yeah yeah it's like a like a

1297  
00:53:38,108 --> 00:53:44,788

komodo dragon would have lived a similar

1298

00:53:39,969 --> 00:53:47,079

life it was up to seven meters long and

1299

00:53:44,789 --> 00:53:49,269

you've said there's so much on your

1300

00:53:47,079 --> 00:53:51,369

to-do list what is the very next thing

1301

00:53:49,268 --> 00:53:53,528

is there something either jet to be a be

1302

00:53:51,369 --> 00:53:55,869

process I'm working on this crusher top

1303

00:53:53,528 --> 00:53:57,130

scholar here we're just going out into

1304

00:53:55,869 --> 00:53:58,119

the kitchen it gives your now we're

1305

00:53:57,130 --> 00:54:00,088

going through the kitchen into the

1306

00:53:58,119 --> 00:54:03,460

backyard folks to have a look at it

1307

00:54:00,088 --> 00:54:05,828

looks like something yet look even I

1308

00:54:03,460 --> 00:54:08,199

know that's a triceratops which again if

1309

00:54:05,829 --> 00:54:09,729

it's Triceratops Triceratops this is my

1310

00:54:08,199 --> 00:54:11,439

knife rule Triceratops oh it's got my

1311

00:54:09,728 --> 00:54:13,598

thrill on I'm gonna have to construct a

1312  
00:54:11,440 --> 00:54:15,400  
frill that put this on display but the

1313  
00:54:13,599 --> 00:54:20,048  
the skulls are good not to do in league

1314  
00:54:15,400 --> 00:54:22,930  
with on build up a thrill for the skull

1315  
00:54:20,048 --> 00:54:24,710  
now as a triceratops a meat eater or was

1316  
00:54:22,929 --> 00:54:28,009  
it vegetarian now is a

1317  
00:54:24,710 --> 00:54:29,539  
tarian it was a herbivore a herbivore so

1318  
00:54:28,010 --> 00:54:31,730  
it doesn't get the big teeth like that

1319  
00:54:29,539 --> 00:54:33,440  
say unfortunately doesn't get big scary

1320  
00:54:31,730 --> 00:54:35,510  
teeth doesn't get the beats Curtis we've

1321  
00:54:33,440 --> 00:54:39,200  
got the big scary horns yeah it's like a

1322  
00:54:35,510 --> 00:54:40,970  
big rhinoceros that's amazing well

1323  
00:54:39,199 --> 00:54:42,649  
thanks for sharing this collection with

1324  
00:54:40,969 --> 00:54:44,269  
us and your obsession to because I mean

1325  
00:54:42,650 --> 00:54:46,010  
it's great to see people and have a

1326  
00:54:44,269 --> 00:54:48,170  
passion for something that you just

1327  
00:54:46,010 --> 00:54:50,780  
never encountered before and I hoped

1328  
00:54:48,170 --> 00:54:52,220  
like some hope someone does pick up the

1329  
00:54:50,780 --> 00:54:54,650  
chance to exhibit this somewhere because

1330  
00:54:52,219 --> 00:54:56,088  
it's great I mean and you haven't enough

1331  
00:54:54,650 --> 00:54:58,309  
room in your house full of stuff mark

1332  
00:54:56,088 --> 00:55:01,690  
rapidly running out of room leavin the

1333  
00:54:58,309 --> 00:55:01,690  
livin the sheds full

1334  
00:55:09,719 --> 00:55:11,779  
you

1335  
00:55:13,679 --> 00:55:19,338  
this is Eugenie Scott National Center

1336  
00:55:16,500 --> 00:55:24,750  
for Science Education you can find us at

1337  
00:55:19,338 --> 00:55:26,670  
ww NCSE com come see us if you want to

1338  
00:55:24,750 --> 00:55:28,920  
know anything about the creationism and

1339  
00:55:26,670 --> 00:55:31,920  
evolution conflict in the United States

1340

00:55:28,920 --> 00:55:33,690  
or more's the pity internationally these

1341  
00:55:31,920 --> 00:55:36,960  
days we are a clearinghouse for

1342  
00:55:33,690 --> 00:55:39,630  
information on this vexing but certainly

1343  
00:55:36,960 --> 00:55:42,050  
very interesting problem come and find

1344  
00:55:39,630 --> 00:55:42,050  
out more about

1345  
00:55:50,710 --> 00:55:54,710  
well we don't see much of them anymore

1346  
00:55:53,150 --> 00:55:57,130  
but they're still about it's the old

1347  
00:55:54,710 --> 00:56:00,110  
power balance wristbands and all their

1348  
00:55:57,130 --> 00:56:02,210  
invitations and ilk but a good friend of

1349  
00:56:00,110 --> 00:56:05,320  
the skipped exam David barwick hide /

1350  
00:56:02,210 --> 00:56:07,519  
Allah has brought this to my attention

1351  
00:56:05,320 --> 00:56:11,210  
which I have right in front of me it's

1352  
00:56:07,519 --> 00:56:13,699  
called a mystic band it looks almost

1353  
00:56:11,210 --> 00:56:16,309  
identical to a power balance band except

1354  
00:56:13,699 --> 00:56:18,319

the hologram is a yin and yang sign

1355

00:56:16,309 --> 00:56:20,840

which is a very nice-looking hologram I

1356

00:56:18,320 --> 00:56:22,610

must say and you pick this up and it

1357

00:56:20,840 --> 00:56:25,640

says it right on the packet there for

1358

00:56:22,610 --> 00:56:28,370

only three dollars yes that's that's

1359

00:56:25,639 --> 00:56:30,619

that's I'm staggered I'm staggered that

1360

00:56:28,369 --> 00:56:32,299

somebody would bother importing and

1361

00:56:30,619 --> 00:56:33,980

selling them so cheaply boos from the

1362

00:56:32,300 --> 00:56:35,870

reject shop and you'll just show up and

1363

00:56:33,980 --> 00:56:36,920

down happen to spot it yes and I thought

1364

00:56:35,869 --> 00:56:39,500

you might be interested in it I

1365

00:56:36,920 --> 00:56:41,119

absolutely am but the interesting thing

1366

00:56:39,500 --> 00:56:42,349

about this packaging David I must say

1367

00:56:41,119 --> 00:56:46,279

apart from the fact that it's pretty

1368

00:56:42,349 --> 00:56:48,799

boring packaging um it makes no claims

1369  
00:56:46,280 --> 00:56:50,960  
absolutely no prob preposterous claims

1370  
00:56:48,800 --> 00:56:54,019  
nothing in fact it says mystic band

1371  
00:56:50,960 --> 00:56:55,789  
three dollars the reject shop imported

1372  
00:56:54,019 --> 00:56:58,670  
by so-and-so and so-and-so made in China

1373  
00:56:55,789 --> 00:57:02,329  
that's it no no strength claim no

1374  
00:56:58,670 --> 00:57:05,150  
balance claim an honest the sea lo band

1375  
00:57:02,329 --> 00:57:08,829  
can you believe it you know I didn't so

1376  
00:57:05,150 --> 00:57:11,119  
I told you about it and you've been

1377  
00:57:08,829 --> 00:57:12,529  
discussing with me just earlier that day

1378  
00:57:11,119 --> 00:57:15,500  
you've noticed some people you know

1379  
00:57:12,530 --> 00:57:17,030  
wearing the so-called real thing and be

1380  
00:57:15,500 --> 00:57:19,400  
trying to persuade them maybe that's not

1381  
00:57:17,030 --> 00:57:21,080  
that the best thing to have on project

1382  
00:57:19,400 --> 00:57:23,360  
managers a red worker should know better

1383  
00:57:21,079 --> 00:57:24,829  
should know better well that's a good

1384  
00:57:23,360 --> 00:57:27,530  
point because a lot of people were

1385  
00:57:24,829 --> 00:57:29,059  
hoodwinked by it and you can't find them

1386  
00:57:27,530 --> 00:57:30,410  
around anymore because the government

1387  
00:57:29,059 --> 00:57:32,808  
took action

1388  
00:57:30,409 --> 00:57:34,699  
but I'm pleased to see that somewhere

1389  
00:57:32,809 --> 00:57:38,900  
like the reject shop is selling them

1390  
00:57:34,699 --> 00:57:41,000  
it's such a small price hopefully people

1391  
00:57:38,900 --> 00:57:43,700  
will buy this one without any claims of

1392  
00:57:41,000 --> 00:57:45,139  
miracles and undercut the people out

1393  
00:57:43,699 --> 00:57:47,538  
there who are selling them for sixty or

1394  
00:57:45,139 --> 00:57:49,250  
seventy dollars a pop but I'm glad that

1395  
00:57:47,539 --> 00:57:51,079  
you're out there we'll go to our eyes

1396  
00:57:49,250 --> 00:57:52,909  
and ears out everywhere on the skeptics

1397

00:57:51,079 --> 00:57:55,000  
I'm so thank you very much that's all

1398  
00:57:52,909 --> 00:57:55,000  
right

1399  
00:58:12,250 --> 00:58:17,059  
thank you for listening to the skeptic

1400  
00:58:14,719 --> 00:58:19,250  
zone well i'm still here sitting outside

1401  
00:58:17,059 --> 00:58:22,250  
Jim will Cher's house in the beautiful

1402  
00:58:19,250 --> 00:58:25,730  
countryside of southern New South Wales

1403  
00:58:22,250 --> 00:58:27,230  
just near the Murray River cockatoos is

1404  
00:58:25,730 --> 00:58:29,358  
still screeching in the background the

1405  
00:58:27,230 --> 00:58:33,920  
birds are singing and there's some

1406  
00:58:29,358 --> 00:58:38,389  
chickens behind me in a chicken run it's

1407  
00:58:33,920 --> 00:58:40,460  
all very pleasant and I note that inside

1408  
00:58:38,389 --> 00:58:43,639  
the house jim has started a nice fire so

1409  
00:58:40,460 --> 00:58:46,429  
I might go in sit back have a nice cup

1410  
00:58:43,639 --> 00:58:49,129  
of coffee until next time this is

1411  
00:58:46,429 --> 00:58:51,710

Richard Saunders signing off from

1412

00:58:49,130 --> 00:58:59,720

beautiful towel Malmo alongside the

1413

00:58:51,710 --> 00:59:03,050

Murray River in Australia you've been

1414

00:58:59,719 --> 00:59:07,549

listening to the skeptic zone visit our

1415

00:59:03,050 --> 00:59:10,039

website at [www.skeptics on TV](http://www.skepticsontv.com) for

1416

00:59:07,550 --> 00:59:12,670

comments contacts and extra video

1417

00:59:10,039 --> 00:59:12,670

reports

1418

00:59:15,610 --> 00:59:17,640

Oh