

1  
00:00:00,000 --> 00:00:09,119  
[Music]

2  
00:00:05,929 --> 00:00:11,839  
welcome to the skeptic zone the podcast

3  
00:00:09,119 --> 00:00:13,919  
from Australia for science and reason

4  
00:00:11,839 --> 00:00:16,890  
[Music]

5  
00:00:13,919 --> 00:00:23,019  
[Applause]

6  
00:00:16,890 --> 00:00:25,609  
[Music]

7  
00:00:23,019 --> 00:00:29,359  
yes it's the skeptics own podcast

8  
00:00:25,609 --> 00:00:33,019  
episode number 471 for the 29th of

9  
00:00:29,359 --> 00:00:34,939  
October 2017 richardsaunders here with

10  
00:00:33,020 --> 00:00:38,750  
you coming to you coming to you this

11  
00:00:34,939 --> 00:00:43,049  
week from Las Vegas Nevada

12  
00:00:38,750 --> 00:00:48,230  
is the happy wonderful sounds of the

13  
00:00:43,049 --> 00:00:48,229  
Excalibur casino the casino floor

14  
00:00:50,630 --> 00:00:56,420  
this week we're kicking off a series of

15  
00:00:52,759 --> 00:00:58,969  
interviews from psych on the committee

16  
00:00:56,420 --> 00:01:01,219  
for skeptical inquiry the convention

17  
00:00:58,969 --> 00:01:02,750  
here and this series of interviews will

18  
00:01:01,219 --> 00:01:05,239  
last hopefully over the next couple of

19  
00:01:02,750 --> 00:01:07,939  
weeks at least as I record this the

20  
00:01:05,239 --> 00:01:10,189  
convention is only halfway through I've

21  
00:01:07,939 --> 00:01:12,439  
snuck up to my hotel room to put

22  
00:01:10,189 --> 00:01:13,969  
together a skeptic zone but in the last

23  
00:01:12,439 --> 00:01:16,459  
couple of days I've managed to score

24  
00:01:13,969 --> 00:01:19,099  
some interviews with that Eugenie Scott

25  
00:01:16,459 --> 00:01:21,978  
Brian Dunning Briton Hermes and other

26  
00:01:19,099 --> 00:01:24,919  
people which I'll be playing well pretty

27  
00:01:21,978 --> 00:01:27,379  
soon it's so good to see so many friends

28  
00:01:24,920 --> 00:01:30,049  
I've met over the years coming to

29

00:01:27,379 --> 00:01:32,239  
conventions and lots of new people as

30  
00:01:30,049 --> 00:01:34,280  
well and it's nice to have so many

31  
00:01:32,239 --> 00:01:36,709  
skeptics own listeners come up and say

32  
00:01:34,280 --> 00:01:38,509  
hello and so the first series of

33  
00:01:36,709 --> 00:01:41,689  
snippets and interviews coming up very

34  
00:01:38,509 --> 00:01:43,310  
soon and after that it's an update an

35  
00:01:41,689 --> 00:01:47,599  
opinion piece from The Sydney Morning

36  
00:01:43,310 --> 00:01:49,490  
Herald by John Dyer about the move the

37  
00:01:47,599 --> 00:01:51,919  
government of making in Australia to

38  
00:01:49,489 --> 00:01:54,319  
remove subsidies from certain forms of

39  
00:01:51,920 --> 00:01:55,189  
quackery like homeopathy and yes it's

40  
00:01:54,319 --> 00:01:57,228  
long overdue

41  
00:01:55,189 --> 00:01:59,530  
then to round off the show another

42  
00:01:57,228 --> 00:02:01,640  
another in the series of reports for mal

43  
00:01:59,530 --> 00:02:03,319

globe-trotting reporter and the

44

00:02:01,640 --> 00:02:05,599

president of strain skeptics are rants

45

00:02:03,319 --> 00:02:09,770

again this week Iran catches up with

46

00:02:05,599 --> 00:02:11,810

Marius who is a believer in exorcism and

47

00:02:09,770 --> 00:02:14,750

you've been hearing over the last few

48

00:02:11,810 --> 00:02:17,449

weeks about the exorcism our

49

00:02:14,750 --> 00:02:20,389

presentation at the European skeptics

50

00:02:17,449 --> 00:02:21,889

Congress about a month ago well this

51

00:02:20,389 --> 00:02:25,329

week you can hear it from the horse's

52

00:02:21,889 --> 00:02:29,299

mouth so to speak and Iran asks why

53

00:02:25,330 --> 00:02:32,360

anyone would believe in exorcism and the

54

00:02:29,300 --> 00:02:35,920

reasons behind that belief so a show on

55

00:02:32,360 --> 00:02:40,069

the run on the road put together as I go

56

00:02:35,919 --> 00:02:42,500

but now it's time for me to open up the

57

00:02:40,068 --> 00:02:44,929

hotel room door walk to the end of the

58  
00:02:42,500 --> 00:02:46,459  
massively long corridor press the button

59  
00:02:44,930 --> 00:02:49,040  
for the elevator wait a little while

60  
00:02:46,459 --> 00:02:52,400  
ding get inside go down to the lobby

61  
00:02:49,039 --> 00:02:56,419  
walk through the casino floor is that's

62  
00:02:52,400 --> 00:02:58,520  
the sound go up the escalator turn right

63  
00:02:56,419 --> 00:03:00,289  
end up in the food court and see what I

64  
00:02:58,520 --> 00:03:01,350  
can find for breakfast while I do all

65  
00:03:00,289 --> 00:03:03,389  
that

66  
00:03:01,349 --> 00:03:04,750  
and come back quickly I hope you enjoy

67  
00:03:03,389 --> 00:03:23,628  
the skeptic zone

68  
00:03:04,750 --> 00:03:23,628  
[Music]

69  
00:03:25,098 --> 00:03:33,060  
saikhan 2017 the committee for skeptical

70  
00:03:28,500 --> 00:03:35,150  
inquiry conference or convention this

71  
00:03:33,060 --> 00:03:38,879  
year is being held at the Excalibur

72  
00:03:35,150 --> 00:03:40,620  
casino in Las Vegas very well attended

73  
00:03:38,879 --> 00:03:43,859  
with hundreds and hundreds of people

74  
00:03:40,620 --> 00:03:48,090  
here skeptics of all shapes and sizes

75  
00:03:43,860 --> 00:03:50,519  
and ages and walks of life coming up is

76  
00:03:48,090 --> 00:03:52,709  
a short clip from our good friend George

77  
00:03:50,519 --> 00:03:55,200  
Rob from the geologic podcast who is the

78  
00:03:52,709 --> 00:03:58,170  
emcee he opened proceedings with a great

79  
00:03:55,199 --> 00:04:00,000  
little song followed by me wandering

80  
00:03:58,169 --> 00:04:03,159  
around the halls interviewing people

81  
00:04:00,000 --> 00:04:12,530  
ending up sitting beside Britt Hermes

82  
00:04:03,159 --> 00:04:12,530  
[Music]

83  
00:04:19,028 --> 00:04:30,110  
[Music]

84  
00:04:27,740 --> 00:04:33,179  
[Applause]

85  
00:04:30,110 --> 00:04:33,179  
[Music]

86

00:04:36,420 --> 00:04:47,240  
[Music]

87  
00:04:49,879 --> 00:04:56,259  
[Applause]

88  
00:04:59,050 --> 00:05:04,490  
well it's in the morning the first

89  
00:05:01,639 --> 00:05:07,339  
morning break here at the saikhan and

90  
00:05:04,490 --> 00:05:09,889  
who should just walk by me it's the

91  
00:05:07,339 --> 00:05:12,769  
genie Scott hi TV hi there how are you

92  
00:05:09,889 --> 00:05:14,539  
um well it's busy here isn't it yeah I

93  
00:05:12,769 --> 00:05:16,459  
was going to ask Barry what the

94  
00:05:14,540 --> 00:05:18,470  
registration was I have a feeling it's

95  
00:05:16,459 --> 00:05:20,899  
higher than last year it looks like a

96  
00:05:18,470 --> 00:05:22,520  
lot more people in the audience when I

97  
00:05:20,899 --> 00:05:23,959  
was just in the big auditorium now for

98  
00:05:22,519 --> 00:05:25,399  
the morning session it was packed out

99  
00:05:23,959 --> 00:05:27,680  
there was hundreds and hundreds of

100  
00:05:25,399 --> 00:05:29,599

people yeah it's um it's a good turnout

101

00:05:27,680 --> 00:05:32,959

and the morning session was great those

102

00:05:29,600 --> 00:05:34,520

are three really good speakers right I'm

103

00:05:32,959 --> 00:05:36,589

kicking off through the Richard Wiseman

104

00:05:34,519 --> 00:05:38,240

which is always a good idea yeah you

105

00:05:36,589 --> 00:05:40,039

pretty much can't go wrong with him as a

106

00:05:38,240 --> 00:05:43,240

kickoff I mean he's he'll he'll get on

107

00:05:40,040 --> 00:05:45,860

first base as we'd say in the United

108

00:05:43,240 --> 00:05:50,150

it's wonderful to be back with so many

109

00:05:45,860 --> 00:05:51,770

old friends and new friends and I really

110

00:05:50,149 --> 00:05:53,719

did enjoy the first session I mean it

111

00:05:51,769 --> 00:05:57,649

they really got off to a flying start

112

00:05:53,720 --> 00:06:00,530

and I think up next is David Gorski if

113

00:05:57,649 --> 00:06:02,629

I'm not mistaken or even big Hermes I

114

00:06:00,529 --> 00:06:05,509

don't have to look at the program but I

115  
00:06:02,629 --> 00:06:07,459  
think you're right and again that's

116  
00:06:05,509 --> 00:06:10,610  
that's not going to be too painful to

117  
00:06:07,459 --> 00:06:13,219  
listen to it'll be fine and you're what

118  
00:06:10,610 --> 00:06:14,990  
are you on oh not until tomorrow so

119  
00:06:13,220 --> 00:06:17,960  
today's the day I can just kick back and

120  
00:06:14,990 --> 00:06:20,389  
enjoy the fun and intellectual

121  
00:06:17,959 --> 00:06:22,849  
stimulation as it were and you seem to

122  
00:06:20,389 --> 00:06:24,889  
be a walking endorsement of my little

123  
00:06:22,850 --> 00:06:27,040  
origamis I just noticed you're wearing

124  
00:06:24,889 --> 00:06:29,899  
an origami biggest as he rings

125  
00:06:27,040 --> 00:06:31,970  
absolutely I never leave home without it

126  
00:06:29,899 --> 00:06:34,029  
assuming I'm wearing something in pink

127  
00:06:31,970 --> 00:06:35,710  
because that's the color of these

128  
00:06:34,029 --> 00:06:38,229  
no yeah there there really a lot of fun

129  
00:06:35,709 --> 00:06:42,339  
thanks TV I've been talking to you see

130  
00:06:38,230 --> 00:06:43,990  
you later and oh here's an editor now

131  
00:06:42,339 --> 00:06:46,359  
from our guerrilla skepticism on

132  
00:06:43,990 --> 00:06:48,100  
Wikipedia and in fact this is somebody

133  
00:06:46,360 --> 00:06:50,670  
you've heard on the skeptics and who do

134  
00:06:48,100 --> 00:06:53,620  
we have here hi it's Rob Palmer and

135  
00:06:50,670 --> 00:06:55,000  
people might know your voice from one of

136  
00:06:53,620 --> 00:06:55,780  
the guerrilla skepticism about

137  
00:06:55,000 --> 00:07:01,300  
promotions

138  
00:06:55,779 --> 00:07:03,039  
it never ends that's it and we just saw

139  
00:07:01,300 --> 00:07:04,770  
Susan Goodman give a talk in there about

140  
00:07:03,040 --> 00:07:07,060  
the whole guerrilla skepticism

141  
00:07:04,769 --> 00:07:10,359  
concentrating on a psychic that I'm not

142  
00:07:07,060 --> 00:07:12,610  
too familiar with called Tyler Henry he

143

00:07:10,360 --> 00:07:15,040  
is the Hollywood medium he's a fuzzy

144  
00:07:12,610 --> 00:07:17,370  
sweater psychic that's the new name

145  
00:07:15,040 --> 00:07:19,450  
they're not they're old-growth type of

146  
00:07:17,370 --> 00:07:21,129  
psychics they're they're like the boy in

147  
00:07:19,449 --> 00:07:23,349  
the girl next door also another one is

148  
00:07:21,129 --> 00:07:25,990  
Monica the medium they find these people

149  
00:07:23,350 --> 00:07:27,879  
that are barely 20 years old who claim

150  
00:07:25,990 --> 00:07:29,120  
to have psychic powers that can talk to

151  
00:07:27,879 --> 00:07:31,879  
dead people

152  
00:07:29,120 --> 00:07:34,730  
and yeah so what was your role in his

153  
00:07:31,879 --> 00:07:36,560  
Wikipedia page well we found out he was

154  
00:07:34,730 --> 00:07:39,080  
going into the third season on the E

155  
00:07:36,560 --> 00:07:41,660  
network and his page was spiking again

156  
00:07:39,079 --> 00:07:44,149  
and the Wikipedia page had no criticism

157  
00:07:41,660 --> 00:07:46,430

at all she came and stumbled across this

158

00:07:44,149 --> 00:07:49,969

page you would just think he could

159

00:07:46,430 --> 00:07:52,910

really talk to dead people so what we

160

00:07:49,970 --> 00:07:54,680

did after Susan cajoled some people in

161

00:07:52,910 --> 00:07:57,439

the scientific and skeptical movement

162

00:07:54,680 --> 00:07:59,540

were notable to write criticisms and

163

00:07:57,439 --> 00:08:01,728

publish them online I was then able to

164

00:07:59,540 --> 00:08:03,800

take those and put them on Tyler Henry's

165

00:08:01,728 --> 00:08:05,329

page now if you stumble on Tyler Henry's

166

00:08:03,800 --> 00:08:06,829

page or someone says hey go look at this

167

00:08:05,329 --> 00:08:08,509

this guy can talk to dead people

168

00:08:06,829 --> 00:08:09,680

there's probably no way you can leave

169

00:08:08,509 --> 00:08:11,599

that page and think he really talks to

170

00:08:09,680 --> 00:08:13,040

dead people I just you know just a

171

00:08:11,600 --> 00:08:15,860

moment ago I had a quick look at the

172  
00:08:13,040 --> 00:08:19,160  
page out of curiosity and the skeptical

173  
00:08:15,860 --> 00:08:20,600  
content is quite prominent yes we did we

174  
00:08:19,160 --> 00:08:22,220  
did a good job and we had a little bit

175  
00:08:20,600 --> 00:08:25,070  
of pushback this is a little bit

176  
00:08:22,220 --> 00:08:26,600  
interesting people came and fought us

177  
00:08:25,069 --> 00:08:28,579  
tried to take the criticisms off

178  
00:08:26,600 --> 00:08:31,270  
obviously Friends of Tyler maybe Tyler

179  
00:08:28,579 --> 00:08:33,348  
himself the most interesting one was a

180  
00:08:31,269 --> 00:08:35,088  
person who logged in and made a new

181  
00:08:33,349 --> 00:08:37,158  
Wikipedia account where the day before

182  
00:08:35,089 --> 00:08:39,320  
had never touched the Wikipedia with

183  
00:08:37,158 --> 00:08:43,538  
this account before and the username and

184  
00:08:39,320 --> 00:08:43,539  
I'm joking not it was I love Tyler Henry

185  
00:08:43,958 --> 00:08:48,500  
I didn't even have to do anything other

186  
00:08:46,490 --> 00:08:50,690  
editors who know the rules of Wikipedia

187  
00:08:48,500 --> 00:08:53,208  
knew this was not an unbiased opinion

188  
00:08:50,690 --> 00:08:54,620  
and they took everything this person

189  
00:08:53,208 --> 00:08:55,629  
took off the page and put the criticism

190  
00:08:54,620 --> 00:08:57,039  
back

191  
00:08:55,629 --> 00:08:58,480  
that's the way it's supposed to work

192  
00:08:57,039 --> 00:09:01,269  
that's the way it's supposed to work but

193  
00:08:58,480 --> 00:09:05,069  
it's as you say it is never ending it's

194  
00:09:01,269 --> 00:09:05,068  
it's always the work to be done

195  
00:09:05,610 --> 00:09:11,860  
Susan always says she encourages people

196  
00:09:08,440 --> 00:09:13,329  
out there to join join the cause joined

197  
00:09:11,860 --> 00:09:16,089  
guerrillas kept and you're even wearing

198  
00:09:13,328 --> 00:09:20,049  
oh I just noticing now you got the

199  
00:09:16,089 --> 00:09:21,970  
guerrillas skeptics should and cap at my

200

00:09:20,049 --> 00:09:24,758  
own expense but I was coming to psych on

201  
00:09:21,970 --> 00:09:26,170  
I had to go all out we're great to see

202  
00:09:24,759 --> 00:09:27,759  
you here and I hope you enjoy the rest

203  
00:09:26,169 --> 00:09:34,289  
of the convention thank you very much

204  
00:09:27,759 --> 00:09:36,730  
Richard Brian Dunning from skeptoid comm

205  
00:09:34,289 --> 00:09:47,948  
now I've had a chance to view your

206  
00:09:36,730 --> 00:09:49,000  
latest home movie curiosity well

207  
00:09:47,948 --> 00:09:51,419  
congratulations

208  
00:09:49,000 --> 00:09:54,068  
thank you very much stupendous

209  
00:09:51,419 --> 00:09:55,929  
beautifully shot I mean the contents

210  
00:09:54,068 --> 00:09:57,370  
rubbish but it's cinematically and

211  
00:09:55,929 --> 00:09:59,138  
musically it's brilliant

212  
00:09:57,370 --> 00:10:00,519  
I agree our director of photography will

213  
00:09:59,139 --> 00:10:03,789  
be very glad to hear that his name is

214  
00:10:00,519 --> 00:10:06,429

Matt for it's known online in higher ed

215

00:10:03,789 --> 00:10:09,039

I enjoyed it immensely how's how's that

216

00:10:06,429 --> 00:10:12,159

being received it's being received

217

00:10:09,039 --> 00:10:14,049

exactly as we had hoped it would the the

218

00:10:12,159 --> 00:10:16,299

kind of the post-production marketing

219

00:10:14,049 --> 00:10:18,399

plan has been to take it to teaching

220

00:10:16,299 --> 00:10:20,139

organizations so the National Science

221

00:10:18,399 --> 00:10:22,000

Teachers Association and many other

222

00:10:20,139 --> 00:10:25,240

groups like that we're kind of getting

223

00:10:22,000 --> 00:10:26,620

it into all of their indexes of freely

224

00:10:25,240 --> 00:10:28,149

available teaching materials that

225

00:10:26,620 --> 00:10:29,500

teachers actually go to when they want

226

00:10:28,149 --> 00:10:32,679

stuff they need units they need

227

00:10:29,500 --> 00:10:34,328

materials for their classes principles

228

00:10:32,679 --> 00:10:36,458

of curiosity is there out there for them

229  
00:10:34,328 --> 00:10:38,258  
so although it's not something you're

230  
00:10:36,458 --> 00:10:40,388  
likely to find on the street or in your

231  
00:10:38,259 --> 00:10:42,159  
local video store it's where we think

232  
00:10:40,389 --> 00:10:42,789  
it's most important to be which is in

233  
00:10:42,159 --> 00:10:46,629  
classrooms

234  
00:10:42,789 --> 00:10:49,000  
yeah well take a step back it's the most

235  
00:10:46,629 --> 00:10:51,278  
importantly its online it is online

236  
00:10:49,000 --> 00:10:53,528  
certainly yeah principles of curiosity

237  
00:10:51,278 --> 00:10:55,028  
calm has the link to the YouTube video

238  
00:10:53,528 --> 00:10:56,679  
and it's there free on YouTube for

239  
00:10:55,028 --> 00:10:58,809  
everyone to see and how many years has

240  
00:10:56,679 --> 00:11:00,578  
it been since you did the the Dragons

241  
00:10:58,809 --> 00:11:03,099  
won the hey be dragons their dragons hey

242  
00:11:00,578 --> 00:11:05,289  
Vijay here be dragons you're not the

243

00:11:03,100 --> 00:11:09,220  
first to call it that as that was back

244

00:11:05,289 --> 00:11:11,799  
in 2008 and you know here be dragons is

245

00:11:09,220 --> 00:11:13,750  
something that I did with myself and a

246

00:11:11,799 --> 00:11:15,759  
video camera that I bought for the

247

00:11:13,750 --> 00:11:18,039  
purpose in your family right yeah

248

00:11:15,759 --> 00:11:20,289  
sometimes I would have one of my one of

249

00:11:18,039 --> 00:11:22,058  
my kids or Lisa my wife would be setting

250

00:11:20,289 --> 00:11:23,740  
up the camera on the tripod for me

251

00:11:22,058 --> 00:11:26,350  
although most the time I did it myself

252

00:11:23,740 --> 00:11:28,539  
but yeah and and the quality shows it

253

00:11:26,350 --> 00:11:30,730  
was it was definitely had limited

254

00:11:28,539 --> 00:11:33,659  
production value but it holds up well

255

00:11:30,730 --> 00:11:36,789  
because I think the content was good and

256

00:11:33,659 --> 00:11:37,899  
so four principles of curiosity I wanted

257

00:11:36,789 --> 00:11:40,299  
to have the same good high quality

258  
00:11:37,899 --> 00:11:42,068  
content but with modern production

259  
00:11:40,299 --> 00:11:43,629  
values and that's exactly what we were

260  
00:11:42,068 --> 00:11:48,250  
able to achieve I'm super super proud of

261  
00:11:43,629 --> 00:11:51,578  
it and the the wonderful music by Lisa

262  
00:11:48,250 --> 00:11:55,389  
and is across Lea Sanders has scored

263  
00:11:51,578 --> 00:11:58,328  
most of my projects he is just a an

264  
00:11:55,389 --> 00:12:00,129  
amazingly skilled composer it's funny

265  
00:11:58,328 --> 00:12:02,558  
being in his in his music studio he's

266  
00:12:00,129 --> 00:12:04,000  
got this whole giant shelf full of BMI

267  
00:12:02,558 --> 00:12:05,230  
Music Awards because he works

268  
00:12:04,000 --> 00:12:08,649  
professionally in Hollywood most the

269  
00:12:05,230 --> 00:12:10,509  
times and he just adds so much to to our

270  
00:12:08,649 --> 00:12:12,850  
films it's funny it's going and seeing

271  
00:12:10,509 --> 00:12:17,470

principles of curiosity and people will

272

00:12:12,850 --> 00:12:19,449

comment on the music that's just a

273

00:12:17,470 --> 00:12:24,209

testament to it's gonna have something

274

00:12:19,448 --> 00:12:26,458

going for it so again wakin people and

275

00:12:24,208 --> 00:12:30,219

specifically educators view that

276

00:12:26,458 --> 00:12:31,808

principles of curiosity calm that's the

277

00:12:30,220 --> 00:12:33,610

place to see the film and to download

278

00:12:31,808 --> 00:12:37,208

the free teaching materials Thank You

279

00:12:33,610 --> 00:12:39,329

Ryan thank you great homies I'm

280

00:12:37,208 --> 00:12:42,278

delighted to catch up with you here in

281

00:12:39,328 --> 00:12:43,629

Las Vegas I saw you in New York I saw

282

00:12:42,278 --> 00:12:47,558

your talk in New York which is fantastic

283

00:12:43,629 --> 00:12:50,588

and I know that you bumped into a Rance

284

00:12:47,558 --> 00:12:53,110

again not so long ago in Poland was that

285

00:12:50,589 --> 00:12:55,029

no I saw him last year in Manchester at

286

00:12:53,110 --> 00:12:56,339

Kiwi named Chester QED

287

00:12:55,028 --> 00:12:58,470

I didn't make it to pollen done for it

288

00:12:56,339 --> 00:13:00,990

I'm getting all these these conferences

289

00:12:58,470 --> 00:13:02,639

mixed up but the exciting news are is

290

00:13:00,990 --> 00:13:06,870

not only that you're here speaking I

291

00:13:02,639 --> 00:13:09,269

just saw your talk this morning and it

292

00:13:06,870 --> 00:13:11,039

was brilliant all over again the

293

00:13:09,269 --> 00:13:13,139

exciting news for our Australian

294

00:13:11,039 --> 00:13:15,539

listeners is you'll be very shortly

295

00:13:13,139 --> 00:13:17,879

jetting off to Sydney to take part in

296

00:13:15,539 --> 00:13:19,889

our convention in Australia I hope

297

00:13:17,879 --> 00:13:22,889

you're feeling excited about that yeah

298

00:13:19,889 --> 00:13:26,459

absolutely feeling excited and what what

299

00:13:22,889 --> 00:13:29,730

not to give it away no spoilers folks

300  
00:13:26,458 --> 00:13:32,399  
but what can people expect great so I'll

301  
00:13:29,730 --> 00:13:34,528  
be covering a little bit more

302  
00:13:32,399 --> 00:13:36,749  
biographical information so why I got

303  
00:13:34,528 --> 00:13:38,159  
into naturopathy in the first place what

304  
00:13:36,749 --> 00:13:41,610  
was going on in my life that sort of

305  
00:13:38,159 --> 00:13:43,828  
primed me into believing these false

306  
00:13:41,610 --> 00:13:45,808  
claims that many naturopaths and the

307  
00:13:43,828 --> 00:13:48,568  
alternative medicine industry puts out a

308  
00:13:45,808 --> 00:13:50,958  
little bit of my time as a naturopathic

309  
00:13:48,568 --> 00:13:56,399  
doctor and then why I left the field

310  
00:13:50,958 --> 00:13:59,878  
that's that's a bit more what should I

311  
00:13:56,399 --> 00:14:01,470  
say there's a bit more time covered in

312  
00:13:59,879 --> 00:14:04,050  
your personal life than what I just saw

313  
00:14:01,470 --> 00:14:06,360  
in your talk here but that that's an

314

00:14:04,049 --> 00:14:08,639  
interesting angle your motivations I

315  
00:14:06,360 --> 00:14:10,259  
suppose basically a lot of people get

316  
00:14:08,639 --> 00:14:12,269  
into into it because they want to do

317  
00:14:10,259 --> 00:14:15,389  
good right yeah definitely want to do

318  
00:14:12,269 --> 00:14:17,970  
good and well there was a few factors

319  
00:14:15,389 --> 00:14:20,068  
going on I mean I initially got into it

320  
00:14:17,970 --> 00:14:21,629  
because I was afraid of medicine I was

321  
00:14:20,068 --> 00:14:24,120  
afraid of being too sick you know I

322  
00:14:21,629 --> 00:14:26,759  
bought into the idea that doctors don't

323  
00:14:24,120 --> 00:14:29,490  
treat you they just give you disease

324  
00:14:26,759 --> 00:14:31,289  
suppressing drugs and then I decided to

325  
00:14:29,490 --> 00:14:32,999  
become a naturopath myself because I had

326  
00:14:31,289 --> 00:14:34,139  
these experiences where I thought I got

327  
00:14:32,999 --> 00:14:37,980  
better because of natural medicine

328  
00:14:34,139 --> 00:14:39,959

remedies and I wanted to yeah share the

329

00:14:37,980 --> 00:14:42,629

good news do yes

330

00:14:39,958 --> 00:14:44,518

via do-gooder and and preach and so I

331

00:14:42,629 --> 00:14:46,800

really went into this thinking that I

332

00:14:44,519 --> 00:14:50,759

was going to change the face of medicine

333

00:14:46,799 --> 00:14:53,628

through naturopathy again and out of the

334

00:14:50,759 --> 00:14:55,800

purest of motivations and I think that's

335

00:14:53,629 --> 00:14:59,009

one of the things a lot of the media

336

00:14:55,799 --> 00:15:00,809

find difficult when we come along

337

00:14:59,009 --> 00:15:03,120

and tell them that a lot of the people

338

00:15:00,809 --> 00:15:05,189

we deal with be they psychics or people

339

00:15:03,120 --> 00:15:07,700

in leaving alternative medicine a

340

00:15:05,190 --> 00:15:10,170

largely doing it from a well-meaning

341

00:15:07,700 --> 00:15:12,240

point of view and then not out the scam

342

00:15:10,169 --> 00:15:15,448

and con yeah I think that's true

343  
00:15:12,240 --> 00:15:18,028  
especially of naturopaths is they don't

344  
00:15:15,448 --> 00:15:20,458  
know what they don't know and like you

345  
00:15:18,028 --> 00:15:21,120  
heard a little bit in my my talk just

346  
00:15:20,458 --> 00:15:22,859  
now

347  
00:15:21,120 --> 00:15:26,159  
you know we're really told that we are

348  
00:15:22,860 --> 00:15:28,680  
receiving a medical education so when we

349  
00:15:26,159 --> 00:15:31,019  
are out talking to patients or lobbying

350  
00:15:28,679 --> 00:15:33,359  
which not trust do a lot of and insane

351  
00:15:31,019 --> 00:15:35,310  
things like we attend medical school we

352  
00:15:33,360 --> 00:15:38,278  
attend we take all the same classes as a

353  
00:15:35,309 --> 00:15:41,879  
medical doctor plus we learned plus

354  
00:15:38,278 --> 00:15:43,740  
right it's med school class and not

355  
00:15:41,879 --> 00:15:45,809  
surprised aren't not about the students

356  
00:15:43,740 --> 00:15:48,360  
aren't saying this to deceive anyone

357  
00:15:45,809 --> 00:15:49,828  
they're saying it because that's what

358  
00:15:48,360 --> 00:15:51,379  
they're told they're really eating the

359  
00:15:49,828 --> 00:15:54,088  
rhetoric you know we really believe it

360  
00:15:51,379 --> 00:15:55,198  
and if you're in that situation and

361  
00:15:54,089 --> 00:15:56,279  
you're paying your money and you're

362  
00:15:55,198 --> 00:15:57,838  
going through a course and there are

363  
00:15:56,278 --> 00:16:01,049  
other students and there's somebody up

364  
00:15:57,839 --> 00:16:03,630  
the top I could see why you would

365  
00:16:01,049 --> 00:16:05,609  
perceive that as being reality I guess

366  
00:16:03,629 --> 00:16:08,009  
that's right there's a lot of motivated

367  
00:16:05,610 --> 00:16:10,050  
reasoning you're investing a lot of time

368  
00:16:08,009 --> 00:16:12,120  
it's a four-year degree and you're

369  
00:16:10,049 --> 00:16:14,250  
investing a lot of money so my school

370  
00:16:12,120 --> 00:16:16,679  
program matbus steer was about forty

371

00:16:14,250 --> 00:16:21,389  
five thousand dollars a year so that's a

372  
00:16:16,679 --> 00:16:23,698  
lot of good reason to believe in what

373  
00:16:21,389 --> 00:16:25,139  
I'm doing and to get as many people to

374  
00:16:23,698 --> 00:16:28,500  
believe in what I'm doing as well oh

375  
00:16:25,139 --> 00:16:30,629  
yeah absolutely and and what did that

376  
00:16:28,500 --> 00:16:33,028  
demand of your time in that year how

377  
00:16:30,629 --> 00:16:35,698  
often were you in there studying or

378  
00:16:33,028 --> 00:16:38,669  
doing the courses I worked really hard I

379  
00:16:35,698 --> 00:16:41,519  
I worked really hard and it was I

380  
00:16:38,669 --> 00:16:44,759  
remember it being challenging because

381  
00:16:41,519 --> 00:16:46,828  
the course load was heavy because we

382  
00:16:44,759 --> 00:16:49,470  
were taking some of these basic science

383  
00:16:46,828 --> 00:16:50,969  
courses I know now these basic science

384  
00:16:49,470 --> 00:16:53,879  
courses were not at the doctorate level

385  
00:16:50,970 --> 00:16:56,430

they're definitely at a lower probably

386

00:16:53,879 --> 00:16:57,838

more undergraduate level okay but in

387

00:16:56,429 --> 00:16:59,729

addition to this coursework we're also

388

00:16:57,839 --> 00:17:00,050

taking all of these alternative medicine

389

00:16:59,730 --> 00:17:03,019

core

390

00:17:00,049 --> 00:17:04,759

so I had a high credit load because I'm

391

00:17:03,019 --> 00:17:06,558

taking homeopathy courses and

392

00:17:04,759 --> 00:17:08,658

hydrotherapy courses and memorizing

393

00:17:06,558 --> 00:17:10,449

herbs and learning about Chinese

394

00:17:08,659 --> 00:17:13,579

medicine and so there's a lot of

395

00:17:10,449 --> 00:17:15,740

esoteric things to remember like when to

396

00:17:13,578 --> 00:17:17,568

give a certain homeopathic remedy when

397

00:17:15,740 --> 00:17:20,028

to give a certain herb which acupuncture

398

00:17:17,568 --> 00:17:22,188

points you should press and when in

399

00:17:20,028 --> 00:17:24,259

addition to learning some biochemistry

400  
00:17:22,189 --> 00:17:26,288  
information for example or looking at

401  
00:17:24,259 --> 00:17:29,329  
cells under a slide in histology class

402  
00:17:26,288 --> 00:17:32,298  
so you had a lot on your plate really

403  
00:17:29,329 --> 00:17:40,129  
yeah a lot term not only basic science

404  
00:17:32,298 --> 00:17:43,639  
did all this other stuff I really think

405  
00:17:40,130 --> 00:17:45,140  
it's an academic challenge I mean even

406  
00:17:43,640 --> 00:17:47,090  
if he is what you were being taught

407  
00:17:45,140 --> 00:17:49,640  
wasn't based in reality it's still a lot

408  
00:17:47,089 --> 00:17:52,308  
to memorize isn't it exactly exactly a

409  
00:17:49,640 --> 00:17:54,409  
lot of a lot of flashcards and yeah and

410  
00:17:52,308 --> 00:17:57,980  
you had to pass exams that's right yeah

411  
00:17:54,409 --> 00:17:59,539  
so we had there's licensing exams and

412  
00:17:57,980 --> 00:18:02,778  
you're tested on all of this information

413  
00:17:59,538 --> 00:18:04,759  
so in addition to learning some real

414  
00:18:02,778 --> 00:18:06,648  
pharmacology information for example and

415  
00:18:04,759 --> 00:18:09,319  
learning when to give a particular

416  
00:18:06,648 --> 00:18:12,408  
antibiotic and certain contraindications

417  
00:18:09,319 --> 00:18:15,439  
for that in the same question that's

418  
00:18:12,409 --> 00:18:17,480  
tested me on this we're also being given

419  
00:18:15,440 --> 00:18:19,399  
a question about an herb and possible

420  
00:18:17,480 --> 00:18:21,169  
interactions with that drug whether or

421  
00:18:19,398 --> 00:18:23,298  
not it's real you know we don't know

422  
00:18:21,169 --> 00:18:25,909  
right yeah and then possibly also a

423  
00:18:23,298 --> 00:18:27,648  
question about which homeopathic remedy

424  
00:18:25,909 --> 00:18:30,110  
should be considered on top of all this

425  
00:18:27,648 --> 00:18:32,269  
and whether or not someone should do a

426  
00:18:30,109 --> 00:18:34,668  
particular hydrotherapy treatment if it

427  
00:18:32,269 --> 00:18:35,658  
would be make the patient worse or make

428

00:18:34,669 --> 00:18:37,610  
the patient better which is all

429  
00:18:35,659 --> 00:18:39,230  
make-believe in magical anyway but you

430  
00:18:37,609 --> 00:18:41,178  
know we have these very complex stories

431  
00:18:39,230 --> 00:18:44,179  
is what I'm trying to say and how to fit

432  
00:18:41,179 --> 00:18:46,788  
it all in just for my benefit I'm not up

433  
00:18:44,179 --> 00:18:51,110  
on this one exactly what's the crux of

434  
00:18:46,788 --> 00:18:53,298  
hydro hydrotherapy hydrotherapy so it's

435  
00:18:51,109 --> 00:18:56,229  
the use of water therapeutically yeah

436  
00:18:53,298 --> 00:18:59,028  
and it includes lots of different I

437  
00:18:56,230 --> 00:19:01,909  
guess techniques so enemas is the

438  
00:18:59,028 --> 00:19:04,380  
classic one but it also includes laying

439  
00:19:01,909 --> 00:19:08,070  
hot and cold towels

440  
00:19:04,380 --> 00:19:10,080  
patience in a variety of ways with or

441  
00:19:08,069 --> 00:19:11,519  
without electrical stimulation no joke

442  
00:19:10,079 --> 00:19:14,699

when we call this constitutional

443

00:19:11,519 --> 00:19:17,940

hydrotherapy it also includes ice cold

444

00:19:14,700 --> 00:19:21,660

baths or hot baths or hot baths with

445

00:19:17,940 --> 00:19:24,150

therapeutic mud peat moss in it yeah so

446

00:19:21,660 --> 00:19:26,100

far it's not sounding too bad I mean you

447

00:19:24,150 --> 00:19:28,620

live in Germany I used to live in

448

00:19:26,099 --> 00:19:30,269

Germany you've undoubtedly gone along to

449

00:19:28,619 --> 00:19:32,849

the the saunas and the hot tubs in there

450

00:19:30,269 --> 00:19:36,089

and I used to enjoy that no it certainly

451

00:19:32,849 --> 00:19:42,000

feels good but it's not going to it's

452

00:19:36,089 --> 00:19:44,309

not going to cure HIV I miss those days

453

00:19:42,000 --> 00:19:46,920

because I used to remember the very

454

00:19:44,309 --> 00:19:50,579

first time after the sauna I went into

455

00:19:46,920 --> 00:19:53,940

the ice the little ice cool yeah and I I

456

00:19:50,579 --> 00:19:57,019

thought what am i doing but when I got

457  
00:19:53,940 --> 00:20:01,350  
in I could stand it from for you know a

458  
00:19:57,019 --> 00:20:03,059  
decent length of time before it became

459  
00:20:01,349 --> 00:20:04,469  
unbearable but it's quite an experience

460  
00:20:03,059 --> 00:20:07,859  
if you haven't done it folks

461  
00:20:04,470 --> 00:20:10,230  
I can recommend yeah it's it's it's fun

462  
00:20:07,859 --> 00:20:12,329  
socially - I have to admit the problem

463  
00:20:10,230 --> 00:20:14,970  
is is that natural paths integrate these

464  
00:20:12,329 --> 00:20:19,230  
types of therapies into the treatment

465  
00:20:14,970 --> 00:20:20,730  
for very serious diseases so for example

466  
00:20:19,230 --> 00:20:22,860  
when I was in school at bestir the

467  
00:20:20,730 --> 00:20:25,140  
teaching clinic there integrated these

468  
00:20:22,859 --> 00:20:28,799  
hydrotherapy treatments in for patients

469  
00:20:25,140 --> 00:20:31,259  
with HIV and AIDS as a way to boost this

470  
00:20:28,799 --> 00:20:33,180  
person's okay immune system just to make

471  
00:20:31,259 --> 00:20:35,190  
them comfortable just to actually do

472  
00:20:33,180 --> 00:20:36,840  
something yeah - actually they thought

473  
00:20:35,190 --> 00:20:39,720  
it would somehow increase their t-cell

474  
00:20:36,839 --> 00:20:42,089  
count or you know increase the immune

475  
00:20:39,720 --> 00:20:44,850  
system function or reduce opportunistic

476  
00:20:42,089 --> 00:20:46,709  
infections or I'm not exactly sure what

477  
00:20:44,849 --> 00:20:48,089  
the the byline is but the point is that

478  
00:20:46,710 --> 00:20:49,650  
these very sick patients were getting

479  
00:20:48,089 --> 00:20:52,429  
these treatments for therapeutic

480  
00:20:49,650 --> 00:20:55,259  
purposes it sounds like salt therapy

481  
00:20:52,430 --> 00:20:56,310  
yeah yeah I mean there's numerous

482  
00:20:55,259 --> 00:20:59,970  
examples yeah

483  
00:20:56,309 --> 00:21:01,259  
and and the problem is of course I mean

484  
00:20:59,970 --> 00:21:02,519  
there's multiple problems you have sick

485

00:21:01,259 --> 00:21:05,700  
patients spending money on useless

486  
00:21:02,519 --> 00:21:07,740  
treatment you have very sick patients

487  
00:21:05,700 --> 00:21:09,900  
and investing their time and their

488  
00:21:07,740 --> 00:21:12,210  
energy perhaps into treatments that

489  
00:21:09,900 --> 00:21:15,840  
don't work maybe it can make them worse

490  
00:21:12,210 --> 00:21:17,519  
for example or maybe they think

491  
00:21:15,839 --> 00:21:18,449  
psychologically or emotionally that

492  
00:21:17,519 --> 00:21:20,490  
they're getting better and then they

493  
00:21:18,450 --> 00:21:22,890  
start to go off of their conventional

494  
00:21:20,490 --> 00:21:24,450  
medications to my interview Dalton and

495  
00:21:22,890 --> 00:21:26,490  
Mark well that's the story we've heard

496  
00:21:24,450 --> 00:21:29,220  
many times before folks that's just a

497  
00:21:26,490 --> 00:21:31,140  
flavor just a taste to whet your

498  
00:21:29,220 --> 00:21:33,299  
appetite of what you can expect to see

499  
00:21:31,140 --> 00:21:34,980

when you come to the the Estonian

500

00:21:33,299 --> 00:21:38,309

skeptics convention in November in

501

00:21:34,980 --> 00:21:40,110

Sydney with one of our feature guests

502

00:21:38,309 --> 00:21:43,309

Britt homies Britt thank you very much

503

00:21:40,109 --> 00:21:46,949

for your time and I look forward to

504

00:21:43,309 --> 00:21:48,000

working with you in a two days and being

505

00:21:46,950 --> 00:21:49,950

on the panel with you in two days

506

00:21:48,000 --> 00:21:51,210

looking forward to that and of course I

507

00:21:49,950 --> 00:21:53,250

look forward to being part of the

508

00:21:51,210 --> 00:21:53,970

welcoming committee when you arrive in

509

00:21:53,250 --> 00:22:01,049

Sydney

510

00:21:53,970 --> 00:22:02,850

thank you so much coming up over the

511

00:22:01,049 --> 00:22:06,809

next few weeks more in the series of

512

00:22:02,849 --> 00:22:08,839

interviews from psych on 2017 from Las

513

00:22:06,809 --> 00:22:08,839

Vegas

514  
00:22:12,289 --> 00:22:23,618  
[Music]

515  
00:22:29,269 --> 00:22:33,690  
astronomy cast it takes a facts based

516  
00:22:31,650 --> 00:22:35,400  
journey through the cosmos as it offers

517  
00:22:33,690 --> 00:22:38,100  
listeners weekly discussions on

518  
00:22:35,400 --> 00:22:40,950  
astronomical topics ranging from planets

519  
00:22:38,099 --> 00:22:43,439  
to cosmology hosted by Fraser Cain of

520  
00:22:40,950 --> 00:22:44,940  
Universe Today and myself dr. Pamela Gay

521  
00:22:43,440 --> 00:22:46,980  
of Southern Illinois University

522  
00:22:44,940 --> 00:22:48,840  
Edwardsville this show brings the

523  
00:22:46,980 --> 00:22:51,299  
questions of an avid astronomy lover

524  
00:22:48,839 --> 00:22:53,399  
directly to an astronomer together

525  
00:22:51,299 --> 00:22:54,930  
Fraser and I explore what is known and

526  
00:22:53,400 --> 00:22:57,690  
being discovered about the universe

527  
00:22:54,930 --> 00:22:59,519  
around us join us each week as we take a

528  
00:22:57,690 --> 00:23:20,759  
facts based journey through the cosmos

529  
00:22:59,519 --> 00:23:23,160  
at astronomy cast calm now last week we

530  
00:23:20,759 --> 00:23:25,740  
brought you the story of how the federal

531  
00:23:23,160 --> 00:23:28,769  
government in Australia is cracking down

532  
00:23:25,740 --> 00:23:30,809  
on subsidies to rebates for private

533  
00:23:28,769 --> 00:23:33,599  
health when it comes to various

534  
00:23:30,809 --> 00:23:37,889  
alternative therapies you might call

535  
00:23:33,599 --> 00:23:39,750  
quackery and this update or this opinion

536  
00:23:37,890 --> 00:23:42,060  
piece a comment comes to us via The

537  
00:23:39,750 --> 00:23:45,450  
Sydney Morning Herald s MH dot-com today

538  
00:23:42,059 --> 00:23:48,509  
you written on October the 21st by John

539  
00:23:45,450 --> 00:23:52,529  
Dwyer Australian patients vulnerable to

540  
00:23:48,509 --> 00:23:55,349  
quacks we live in the most scientific of

541  
00:23:52,529 --> 00:23:56,789  
ages where it is more than reasonable to

542

00:23:55,349 --> 00:23:59,129  
expect that modern health care

543  
00:23:56,789 --> 00:24:01,559  
strategies will be underpinned by

544  
00:23:59,130 --> 00:24:05,340  
credible scientific evidence for their

545  
00:24:01,559 --> 00:24:08,369  
clinical effectiveness however we find

546  
00:24:05,339 --> 00:24:11,279  
flourishing pseudo scientific concepts

547  
00:24:08,369 --> 00:24:13,739  
and practices that are an affront to our

548  
00:24:11,279 --> 00:24:18,059  
detailed knowledge of how our bodies

549  
00:24:13,740 --> 00:24:20,339  
function in health and disease there are

550  
00:24:18,059 --> 00:24:21,509  
no connections between parts of the iris

551  
00:24:20,339 --> 00:24:24,779  
of one's eye

552  
00:24:21,509 --> 00:24:27,359  
and other organs iridology nor

553  
00:24:24,779 --> 00:24:30,980  
anatomical areas of the soles of our

554  
00:24:27,359 --> 00:24:34,069  
feet with such connections reflexology

555  
00:24:30,980 --> 00:24:36,870  
nor energy fields singling ill health

556  
00:24:34,069 --> 00:24:39,480

radiating from our bodies and subject to

557

00:24:36,869 --> 00:24:42,239

correction by quote healing touch and

558

00:24:39,480 --> 00:24:44,309

quote therapists it was encouraging

559

00:24:42,240 --> 00:24:47,099

therefore to learn last week that

560

00:24:44,309 --> 00:24:49,919

Minister Greg Hunt had reversed a poor

561

00:24:47,099 --> 00:24:51,599

decision by his predecessor and accepted

562

00:24:49,920 --> 00:24:53,580

the findings of our National Health and

563

00:24:51,599 --> 00:24:56,069

Medical Research Council that there is

564

00:24:53,579 --> 00:24:59,099

no evidence to support the efficacy of

565

00:24:56,069 --> 00:25:01,349

any of these 17 most popular quote

566

00:24:59,099 --> 00:25:02,759

alternative end quote therapies the

567

00:25:01,349 --> 00:25:04,889

provision of these ineffective

568

00:25:02,759 --> 00:25:07,950

approaches will no longer be subsidized

569

00:25:04,890 --> 00:25:10,259

by taxpayers dollars via the subsidy to

570

00:25:07,950 --> 00:25:12,750

private health insurers that covers such

571  
00:25:10,259 --> 00:25:15,660  
services unfortunately this is only

572  
00:25:12,750 --> 00:25:19,230  
tackling the tip of the health fraud

573  
00:25:15,660 --> 00:25:21,000  
iceberg take for example the problems

574  
00:25:19,230 --> 00:25:23,250  
the Australian health practitioner

575  
00:25:21,000 --> 00:25:25,829  
regulatory agency has in protecting

576  
00:25:23,250 --> 00:25:28,680  
consumers from the fraudulent activities

577  
00:25:25,829 --> 00:25:31,559  
of many chiropractors who were recently

578  
00:25:28,680 --> 00:25:33,570  
added to the AHPRA family along with

579  
00:25:31,559 --> 00:25:37,259  
osteopaths and traditional Chinese

580  
00:25:33,569 --> 00:25:39,359  
medicine practitioners TCM with the

581  
00:25:37,259 --> 00:25:41,309  
respectability associated with

582  
00:25:39,359 --> 00:25:43,919  
registration many chiropractors set

583  
00:25:41,309 --> 00:25:46,019  
about becoming providers of treatments

584  
00:25:43,920 --> 00:25:47,820  
for a wide range of conditions far

585  
00:25:46,019 --> 00:25:50,639  
beyond the remit of traditional

586  
00:25:47,819 --> 00:25:52,679  
chiropractic there is a soft evidence

587  
00:25:50,640 --> 00:25:55,290  
base for chiropractic treatment of

588  
00:25:52,680 --> 00:25:57,720  
musculoskeletal problems with backs and

589  
00:25:55,289 --> 00:26:00,599  
necks but none for the extended role

590  
00:25:57,720 --> 00:26:02,100  
many have pursued chiropractic websites

591  
00:26:00,599 --> 00:26:05,099  
have been advertising claims for

592  
00:26:02,099 --> 00:26:08,219  
chiropractic management for more than 60

593  
00:26:05,099 --> 00:26:10,980  
non musculoskeletal conditions these

594  
00:26:08,220 --> 00:26:13,710  
include autism asthma developmental

595  
00:26:10,980 --> 00:26:15,839  
disorders colic bedwetting ear

596  
00:26:13,710 --> 00:26:18,539  
infections allergies and even the

597  
00:26:15,839 --> 00:26:21,179  
ability to turn a breech baby something

598  
00:26:18,539 --> 00:26:23,700  
an obstetrician would only attempt in a

599

00:26:21,180 --> 00:26:25,710  
hospital setting to justify these claims

600  
00:26:23,700 --> 00:26:28,710  
they insist that there is running up and

601  
00:26:25,710 --> 00:26:32,400  
down the spinal column and quote innate

602  
00:26:28,710 --> 00:26:33,840  
energy in quote invisible the integrity

603  
00:26:32,400 --> 00:26:35,190  
of which is essential for whole body

604  
00:26:33,839 --> 00:26:38,759  
health

605  
00:26:35,190 --> 00:26:41,820  
minor distortions of the spine invisible

606  
00:26:38,759 --> 00:26:45,079  
on x-ray or MRI which they call quote

607  
00:26:41,819 --> 00:26:47,159  
subluxation unquote disturb this energy

608  
00:26:45,079 --> 00:26:49,409  
chiropractors claim that they can often

609  
00:26:47,160 --> 00:26:52,080  
correct such problems by making small

610  
00:26:49,410 --> 00:26:55,050  
quote adjustments and quote to the spine

611  
00:26:52,079 --> 00:26:57,269  
the care of babies children and pregnant

612  
00:26:55,049 --> 00:26:59,369  
women is targeted with the pseudoscience

613  
00:26:57,269 --> 00:27:02,309

one feel sorry for the chiropractors

614

00:26:59,369 --> 00:27:04,439

that stick to evidence-based care the

615

00:27:02,309 --> 00:27:07,619

Friends of Science in medicine has

616

00:27:04,440 --> 00:27:10,680

reported more than 1,200 chiropractors

617

00:27:07,619 --> 00:27:12,959

making such claims to the AHPRA we have

618

00:27:10,680 --> 00:27:14,670

worked with the AHPRA and the

619

00:27:12,960 --> 00:27:18,269

chiropractic Board of Australia to

620

00:27:14,670 --> 00:27:21,990

address this problem recently AHPRA has

621

00:27:18,269 --> 00:27:24,799

been firm more proactive but there is a

622

00:27:21,990 --> 00:27:27,779

major weakness in the regulatory set up

623

00:27:24,799 --> 00:27:29,639

boards Canon do remind practitioners

624

00:27:27,779 --> 00:27:32,160

that all advertising must be quote

625

00:27:29,640 --> 00:27:34,350

evidence-based unquote and under the

626

00:27:32,160 --> 00:27:35,490

national law breaches can involve a

627

00:27:34,349 --> 00:27:38,189

range of penalties

628  
00:27:35,490 --> 00:27:39,900  
however AHPRA does not have the

629  
00:27:38,190 --> 00:27:42,630  
authority to limit the scope of practice

630  
00:27:39,900 --> 00:27:45,480  
of registrants in other words the

631  
00:27:42,630 --> 00:27:48,570  
regulator can regulate what you say but

632  
00:27:45,480 --> 00:27:50,700  
what you do would that pass the pub

633  
00:27:48,569 --> 00:27:53,189  
tests similar problems we've seen our

634  
00:27:50,700 --> 00:27:55,970  
scientific concepts justifying a broad

635  
00:27:53,190 --> 00:27:59,430  
range of treatments beset Osteopathy and

636  
00:27:55,970 --> 00:28:00,180  
TMC many other significant problems need

637  
00:27:59,430 --> 00:28:02,330  
attention

638  
00:28:00,180 --> 00:28:05,009  
the therapeutics Goods Administration

639  
00:28:02,329 --> 00:28:06,839  
responsible for ensuring the safety and

640  
00:28:05,009 --> 00:28:09,960  
quality of medicines and the medical

641  
00:28:06,839 --> 00:28:12,720  
devices we use also has a poor record of

642  
00:28:09,960 --> 00:28:15,299  
consumer protection providers must keep

643  
00:28:12,720 --> 00:28:19,860  
evidence that supports their claims and

644  
00:28:15,299 --> 00:28:21,960  
on a random basis audits by the TGA find

645  
00:28:19,859 --> 00:28:24,689  
that 80% of the time there is no such

646  
00:28:21,960 --> 00:28:27,019  
evidence the industry is involved of

647  
00:28:24,690 --> 00:28:30,269  
lobbied government for the sector to

648  
00:28:27,019 --> 00:28:32,250  
self-regulate and have the process of

649  
00:28:30,269 --> 00:28:35,009  
vetting advertisements for accuracy

650  
00:28:32,250 --> 00:28:36,690  
before publication scrapped then there

651  
00:28:35,009 --> 00:28:38,789  
are the activities of unregistered

652  
00:28:36,690 --> 00:28:40,920  
health practitioners the fraudulent

653  
00:28:38,789 --> 00:28:43,200  
activity of too many of my fellow

654  
00:28:40,920 --> 00:28:45,690  
doctors offering anything but adequate

655  
00:28:43,200 --> 00:28:48,659  
and evidence-based care of impotence

656

00:28:45,690 --> 00:28:51,149  
obesity and hormone deficiency with

657  
00:28:48,659 --> 00:28:52,799  
some offering useless quote collation

658  
00:28:51,148 --> 00:28:55,528  
therapy unquote for a range of

659  
00:28:52,798 --> 00:28:57,450  
conditions that full of discussion would

660  
00:28:55,528 --> 00:28:59,069  
look at the distressing abandonment of

661  
00:28:57,450 --> 00:29:01,259  
professionalism in favor of

662  
00:28:59,069 --> 00:29:04,229  
commercialism by so many of our

663  
00:29:01,259 --> 00:29:06,509  
pharmacists and the unconscionable false

664  
00:29:04,229 --> 00:29:08,340  
advertising by major vitamin supplement

665  
00:29:06,509 --> 00:29:10,649  
manufacturers that have Australians

666  
00:29:08,339 --> 00:29:12,778  
believing that a daily intake of their

667  
00:29:10,648 --> 00:29:16,018  
products protects one from an unhealthy

668  
00:29:12,778 --> 00:29:18,898  
lifestyle adequate consumer protection

669  
00:29:16,019 --> 00:29:21,479  
should focus on prevention in Australia

670  
00:29:18,898 --> 00:29:24,089

yet all too often involves action after

671

00:29:21,479 --> 00:29:26,098

a harmful event Australian consumers are

672

00:29:24,089 --> 00:29:27,959

particularly vulnerable as we have one

673

00:29:26,098 --> 00:29:31,950

of the lowest rates of adequate health

674

00:29:27,960 --> 00:29:33,749

literacy in the OECD only 40 percent of

675

00:29:31,950 --> 00:29:36,808

us have an adequate knowledge of how our

676

00:29:33,749 --> 00:29:39,389

bodies work the relationship between

677

00:29:36,808 --> 00:29:41,158

lifestyle factors and illness and how to

678

00:29:39,388 --> 00:29:43,769

get the most out of the evidence-based

679

00:29:41,159 --> 00:29:45,929

health system knowledge breeds the

680

00:29:43,769 --> 00:29:48,210

informed scepticism that can minimise

681

00:29:45,929 --> 00:29:49,590

harm from health care fraud the single

682

00:29:48,210 --> 00:29:52,129

most obvious problem with our health

683

00:29:49,589 --> 00:29:56,388

system is the failure to adequately

684

00:29:52,128 --> 00:29:56,388

prioritize the prevention of illness

685  
00:29:57,528 --> 00:30:03,839  
John Dwyer is emeritus professor of

686  
00:30:01,079 --> 00:30:06,418  
medicine at UNSW and president of

687  
00:30:03,839 --> 00:30:08,788  
friends of science and medicine and that

688  
00:30:06,419 --> 00:30:10,409  
a comment piece comes to us from The

689  
00:30:08,788 --> 00:30:14,299  
Sydney Morning Herald published on the

690  
00:30:10,409 --> 00:30:37,179  
21st of October s MH comm dot a you

691  
00:30:14,299 --> 00:30:39,638  
[Music]

692  
00:30:37,179 --> 00:30:41,349  
the New Zealand skeptics conference me

693  
00:30:39,638 --> 00:30:44,479  
is happening on the weekend of the 24th

694  
00:30:41,348 --> 00:30:45,928  
to the 26th of November in Wellington

695  
00:30:44,480 --> 00:30:48,729  
[Music]

696  
00:30:45,929 --> 00:30:51,729  
the weekend starts on Friday evening

697  
00:30:48,729 --> 00:30:54,129  
with a pub quiz all about skepticism and

698  
00:30:51,729 --> 00:30:54,759  
is open for anybody registered for the

699

00:30:54,128 --> 00:30:56,378

conference

700

00:30:54,759 --> 00:30:58,179

the New Zealand skeptics have a great

701

00:30:56,378 --> 00:31:00,278

lineup for the conference both on

702

00:30:58,179 --> 00:31:03,429

Saturday and Sunday they're especially

703

00:31:00,278 --> 00:31:04,690

excited to have Cara Santa Maria from

704

00:31:03,429 --> 00:31:07,570

the skeptics guide to the universe

705

00:31:04,690 --> 00:31:10,109

podcast and Britt Hermes ex naturopath

706

00:31:07,569 --> 00:31:13,148

who now blogs for science-based medicine

707

00:31:10,108 --> 00:31:15,308

joining them this year from overseas but

708

00:31:13,148 --> 00:31:19,258

they also have some fascinating locals

709

00:31:15,308 --> 00:31:19,259

and some Australian speakers too

710

00:31:19,410 --> 00:31:23,970

you can see a list of the current lineup

711

00:31:21,569 --> 00:31:27,750

of speakers by visiting the conference

712

00:31:23,970 --> 00:31:30,329

website conference dot sceptics dot NZ

713

00:31:27,750 --> 00:31:32,880  
and tickets are very reasonably priced

714  
00:31:30,329 --> 00:31:35,669  
and available for the entire weekend or

715  
00:31:32,880 --> 00:31:37,470  
just one day on Saturday evening the

716  
00:31:35,670 --> 00:31:40,620  
ends that skeptics are hosting a dinner

717  
00:31:37,470 --> 00:31:42,539  
separate registration required where you

718  
00:31:40,619 --> 00:31:45,299  
can chill out with fellow skeptics chat

719  
00:31:42,539 --> 00:31:49,589  
with the speakers and enjoy some weird

720  
00:31:45,299 --> 00:31:51,419  
and wonderful entertainment now for that

721  
00:31:49,589 --> 00:31:54,269  
sounds like fun please head to the

722  
00:31:51,420 --> 00:32:10,440  
website and book your ticket conference

723  
00:31:54,269 --> 00:32:13,799  
dot skeptics dot NZ let's all take this

724  
00:32:10,440 --> 00:32:16,910  
with a grain of salt he's around second

725  
00:32:13,799 --> 00:32:16,909  
[Music]

726  
00:32:17,779 --> 00:32:25,799  
so I'm here with my yoke from Poland and

727  
00:32:22,019 --> 00:32:29,639

I ask you to mention your name because I

728

00:32:25,799 --> 00:32:31,680

can't pronounce it - you gave it talk

729

00:32:29,640 --> 00:32:34,530

yesterday and participated in a panel in

730

00:32:31,680 --> 00:32:38,009

a segment of this convention that is

731

00:32:34,529 --> 00:32:40,859

about it was about exorcism you know now

732

00:32:38,009 --> 00:32:43,500

you represented the position that

733

00:32:40,859 --> 00:32:45,839

supports exorcism and believe in demonic

734

00:32:43,500 --> 00:32:48,240

possession do I represent you you're

735

00:32:45,839 --> 00:32:51,539

Asian correctly let's say almost

736

00:32:48,240 --> 00:32:53,430

correctly because what I let's say

737

00:32:51,539 --> 00:32:55,500

represent are the exorcism within the

738

00:32:53,430 --> 00:32:57,299

Catholic Church of course yeah so

739

00:32:55,500 --> 00:32:59,970

because the exorcism can be performed

740

00:32:57,299 --> 00:33:02,779

also in other religions in other forms

741

00:32:59,970 --> 00:33:05,910

so what I can take let's say

742  
00:33:02,779 --> 00:33:07,559  
responsibility and to some extent

743  
00:33:05,910 --> 00:33:10,680  
intellectual responsibilities the

744  
00:33:07,559 --> 00:33:13,980  
exorcism in the Catholic Church okay and

745  
00:33:10,680 --> 00:33:15,390  
can you maybe try to explain you why

746  
00:33:13,980 --> 00:33:17,190  
your position I mean you gave a talk

747  
00:33:15,390 --> 00:33:18,870  
about it yesterday but maybe if you

748  
00:33:17,190 --> 00:33:25,159  
could summarize the main points from you

749  
00:33:18,869 --> 00:33:29,079  
talk for our listeners so axial exorcism

750  
00:33:25,159 --> 00:33:32,359  
has been conducted for centuries or

751  
00:33:29,079 --> 00:33:36,138  
thousands of years probably so at least

752  
00:33:32,358 --> 00:33:38,658  
you can you can read about exorcism in

753  
00:33:36,138 --> 00:33:41,748  
the New Testament that it was conducted

754  
00:33:38,659 --> 00:33:45,739  
by Jesus Christ and Jesus crisis is God

755  
00:33:41,749 --> 00:33:49,720  
in Catholicism so and basically the

756  
00:33:45,739 --> 00:33:52,369  
practice of exorcism is based on the

757  
00:33:49,720 --> 00:33:56,479  
existence of the devil so this is an

758  
00:33:52,368 --> 00:34:01,638  
angel evil spiritual intelligent angel

759  
00:33:56,479 --> 00:34:06,139  
that can torment or in extreme case

760  
00:34:01,638 --> 00:34:09,828  
possess people and this evil spiritual

761  
00:34:06,138 --> 00:34:12,949  
being do not does not obey physics law

762  
00:34:09,829 --> 00:34:17,269  
so you cannot investigate that by means

763  
00:34:12,949 --> 00:34:19,250  
of experimental science but from this

764  
00:34:17,269 --> 00:34:21,559  
you cannot conclude it doesn't exist and

765  
00:34:19,250 --> 00:34:25,159  
in my presentation I have shown that

766  
00:34:21,559 --> 00:34:27,559  
there are some some strange things that

767  
00:34:25,159 --> 00:34:30,338  
happens during exorcism that in my

768  
00:34:27,559 --> 00:34:33,039  
opinion cannot be explained within the

769  
00:34:30,338 --> 00:34:36,019  
materialistic or let's say atheistic

770

00:34:33,039 --> 00:34:40,359  
paradigm like for example the people

771  
00:34:36,019 --> 00:34:44,298  
that are possessed can speak languages

772  
00:34:40,358 --> 00:34:47,058  
with the Exorcist that have never

773  
00:34:44,298 --> 00:34:50,750  
learned or this can be also some ancient

774  
00:34:47,059 --> 00:34:53,929  
languages this is one of the phenomena

775  
00:34:50,750 --> 00:34:57,170  
another one can be that there is there

776  
00:34:53,929 --> 00:35:03,889  
are some materializations for example

777  
00:34:57,170 --> 00:35:09,230  
that people spit nails or screws or

778  
00:35:03,889 --> 00:35:12,618  
pieces of glass even some crabs fishes

779  
00:35:09,230 --> 00:35:17,059  
and stuff like this so it's really

780  
00:35:12,619 --> 00:35:19,278  
difficult I think to to explain this and

781  
00:35:17,059 --> 00:35:23,329  
this is not a single case that has had

782  
00:35:19,278 --> 00:35:25,608  
many cases over the world so it is known

783  
00:35:23,329 --> 00:35:27,859  
among exorcises and the Catholic Church

784  
00:35:25,608 --> 00:35:31,730

that something like this happens also

785

00:35:27,858 --> 00:35:33,420

people that are possessed sometimes have

786

00:35:31,730 --> 00:35:38,039

the ability to

787

00:35:33,420 --> 00:35:40,110

- that they know some secrets of the

788

00:35:38,039 --> 00:35:42,599

person that take part in the exorcism

789

00:35:40,110 --> 00:35:45,570

that is not possible that the person

790

00:35:42,599 --> 00:35:49,110

knows it because it was not possible to

791

00:35:45,570 --> 00:35:53,130

obtain such such knowledge in some cases

792

00:35:49,110 --> 00:35:56,280

some exhaust is also observed levitation

793

00:35:53,130 --> 00:35:59,550

of a person so I do not believe in

794

00:35:56,280 --> 00:36:02,070

paranormal abilities of human being

795

00:35:59,550 --> 00:36:06,119

so my explanation is that it is due to

796

00:36:02,070 --> 00:36:09,690

the intelligent evil spiritual beings

797

00:36:06,119 --> 00:36:12,510

that have a certain power certain power

798

00:36:09,690 --> 00:36:14,639

over the matter or over the human body

799

00:36:12,510 --> 00:36:17,490  
and this is the explanation why it is

800

00:36:14,639 --> 00:36:20,099  
possible that he can disperse on or

801

00:36:17,489 --> 00:36:23,429  
actually this evil being speak this

802

00:36:20,099 --> 00:36:26,549  
languages or make this levitation and so

803

00:36:23,429 --> 00:36:28,109  
on okay so you actually gave an example

804

00:36:26,550 --> 00:36:29,460  
yesterday specifically with regards to

805

00:36:28,110 --> 00:36:31,500  
somebody falling off a bridge so you

806

00:36:29,460 --> 00:36:33,840  
want you were trying to explain why it

807

00:36:31,500 --> 00:36:35,369  
isn't actually breaking of the laws of

808

00:36:33,840 --> 00:36:38,460  
physics yes can you give that example

809

00:36:35,369 --> 00:36:40,858  
yes because we talked yesterday about

810

00:36:38,460 --> 00:36:44,490  
miracles where the miracles are possible

811

00:36:40,858 --> 00:36:47,849  
normally we look as scientists and also

812

00:36:44,489 --> 00:36:53,789  
as believers for natural causes and this

813  
00:36:47,849 --> 00:36:58,440  
is in 99% common 999 this is the natural

814  
00:36:53,789 --> 00:37:00,449  
causes but God created the laws of

815  
00:36:58,440 --> 00:37:04,200  
physics so he can for some good reason

816  
00:37:00,449 --> 00:37:07,618  
suspend them and then it can let's say

817  
00:37:04,199 --> 00:37:09,809  
break the law but it can be like for

818  
00:37:07,619 --> 00:37:12,059  
example somebody drops from from a

819  
00:37:09,809 --> 00:37:14,519  
bridge and then you see that it stops

820  
00:37:12,059 --> 00:37:19,019  
one meter over the bridge so it doesn't

821  
00:37:14,519 --> 00:37:22,320  
mean that the laws of physics are broken

822  
00:37:19,019 --> 00:37:24,869  
because it could be like that an angel

823  
00:37:22,320 --> 00:37:27,559  
just stops this guy's so it means that

824  
00:37:24,869 --> 00:37:30,570  
another force that is opposite to the

825  
00:37:27,559 --> 00:37:33,420  
gravity is that is that this higher

826  
00:37:30,570 --> 00:37:34,980  
stronger so basically what you're saying

827

00:37:33,420 --> 00:37:35,970  
is it's not the laws of physics that are

828  
00:37:34,980 --> 00:37:37,469  
broken it's just something that's

829  
00:37:35,969 --> 00:37:39,209  
outside of the laws of physics that's

830  
00:37:37,469 --> 00:37:40,709  
acting that's basically this is one

831  
00:37:39,210 --> 00:37:43,230  
possibility but not all so it's possible

832  
00:37:40,710 --> 00:37:44,280  
that that the laws of physics are

833  
00:37:43,230 --> 00:37:45,389  
suspended

834  
00:37:44,280 --> 00:37:46,980  
for example there was this example

835  
00:37:45,389 --> 00:37:49,500  
whether it's possible whether you

836  
00:37:46,980 --> 00:37:51,780  
believe that Jesus walked on water so

837  
00:37:49,500 --> 00:37:53,940  
for me this is not the problem because

838  
00:37:51,780 --> 00:37:55,950  
if he's got then he can walk on guess I

839  
00:37:53,940 --> 00:37:58,200  
lost Ellie because I grew up right next

840  
00:37:55,949 --> 00:37:59,579  
to where Jesus supposedly walked on the

841  
00:37:58,199 --> 00:38:01,379

water and earlier that Jordan River is

842

00:37:59,579 --> 00:38:03,449

so shallow there that you can just walk

843

00:38:01,380 --> 00:38:09,740

on the water without without your shoes

844

00:38:03,449 --> 00:38:13,500

getting completely wet the you you got

845

00:38:09,739 --> 00:38:15,119

obviously that's not your position is

846

00:38:13,500 --> 00:38:16,769

not the prevailing position in this room

847

00:38:15,119 --> 00:38:18,779

I think you probably knew that that

848

00:38:16,769 --> 00:38:19,019

course yeah that was not a surprise to

849

00:38:18,780 --> 00:38:22,200

you

850

00:38:19,019 --> 00:38:23,699

so obviously you got some objections

851

00:38:22,199 --> 00:38:24,719

I'll give some examples of the

852

00:38:23,699 --> 00:38:28,079

objections you got and I was just

853

00:38:24,719 --> 00:38:31,230

wondering if you could respond to them

854

00:38:28,079 --> 00:38:33,179

for for our record so for example one of

855

00:38:31,230 --> 00:38:37,199

the things that we said was that that

856  
00:38:33,179 --> 00:38:40,559  
people said was that everything can be

857  
00:38:37,199 --> 00:38:42,239  
tested in some way so the so test you

858  
00:38:40,559 --> 00:38:43,920  
don't necessarily need to know the

859  
00:38:42,239 --> 00:38:47,039  
explanation is in order to test that the

860  
00:38:43,920 --> 00:38:50,720  
explanation is there now the bottom

861  
00:38:47,039 --> 00:38:53,579  
depth the point is that science science

862  
00:38:50,719 --> 00:38:56,339  
experimental science has an assumption

863  
00:38:53,579 --> 00:38:57,769  
and this assumption assumption we know

864  
00:38:56,340 --> 00:39:00,030  
is something that is not proved

865  
00:38:57,769 --> 00:39:03,150  
assumption in science and precursor

866  
00:39:00,030 --> 00:39:05,910  
science is that all the phenomena have

867  
00:39:03,150 --> 00:39:08,420  
natural causes so if you investigate

868  
00:39:05,909 --> 00:39:11,750  
something using scientific methods

869  
00:39:08,420 --> 00:39:16,200  
lasers and so on then you always look

870  
00:39:11,750 --> 00:39:19,920  
for natural causes and this is this is

871  
00:39:16,199 --> 00:39:23,929  
also because the tools Wizards tools are

872  
00:39:19,920 --> 00:39:28,440  
limited to investigate only matter only

873  
00:39:23,929 --> 00:39:30,239  
material samples whatever this so but it

874  
00:39:28,440 --> 00:39:34,590  
is possible from so from this you cannot

875  
00:39:30,239 --> 00:39:40,709  
conclude that non material objects do

876  
00:39:34,590 --> 00:39:44,579  
not exist okay so if I claim that in

877  
00:39:40,710 --> 00:39:46,860  
exorcism there is an evil spiritual

878  
00:39:44,579 --> 00:39:49,829  
being that not obey laws of physics and

879  
00:39:46,860 --> 00:39:53,000  
is not Material you are not able in

880  
00:39:49,829 --> 00:39:56,519  
experimental science to investigate it

881  
00:39:53,000 --> 00:39:59,219  
but you can investigate the effect

882  
00:39:56,519 --> 00:40:02,820  
that he has on matter is all human

883  
00:39:59,219 --> 00:40:05,639  
beings so you see this there is

884

00:40:02,820 --> 00:40:07,230  
limitations in science due to the

885  
00:40:05,639 --> 00:40:09,389  
assumption and the research tours okay

886  
00:40:07,230 --> 00:40:10,980  
so I would like to follow that up with

887  
00:40:09,389 --> 00:40:12,089  
something I mean yesterday I asked you a

888  
00:40:10,980 --> 00:40:13,740  
question

889  
00:40:12,090 --> 00:40:15,570  
you know what I'll ask you again now and

890  
00:40:13,739 --> 00:40:17,369  
you could respond my question was that I

891  
00:40:15,570 --> 00:40:18,750  
can think of several lines of evidence

892  
00:40:17,369 --> 00:40:22,170  
that would lead me to believe that

893  
00:40:18,750 --> 00:40:24,809  
demonic possession as described in the

894  
00:40:22,170 --> 00:40:26,400  
movie that we saw yesterday and and as

895  
00:40:24,809 --> 00:40:29,849  
the Catholic Church generally believes

896  
00:40:26,400 --> 00:40:32,160  
and an exorcisms work so you know

897  
00:40:29,849 --> 00:40:36,150  
there's there's a reasonably it is large

898  
00:40:32,159 --> 00:40:37,889

but limited set of of evidence or lines

899

00:40:36,150 --> 00:40:39,780

of evidence that would convince me that

900

00:40:37,889 --> 00:40:42,210

it actually is happening and my question

901

00:40:39,780 --> 00:40:45,300

to you was what would make what would

902

00:40:42,210 --> 00:40:48,360

convince you that it doesn't exist that

903

00:40:45,300 --> 00:40:52,769

it doesn't work this is actually the

904

00:40:48,360 --> 00:40:56,070

difficult because then because of the

905

00:40:52,769 --> 00:40:59,519

limitation of scientific methods yes I

906

00:40:56,070 --> 00:41:01,800

specifically corrected myself utterly

907

00:40:59,519 --> 00:41:03,590

you said that yesterday we're repeating

908

00:41:01,800 --> 00:41:07,200

what happened yesterday I said well

909

00:41:03,590 --> 00:41:08,579

let's just not talk about you know let's

910

00:41:07,199 --> 00:41:10,109

not limit ourselves to scientific

911

00:41:08,579 --> 00:41:11,340

evidence what is there something that

912

00:41:10,110 --> 00:41:14,730

would convince you that it's not

913  
00:41:11,340 --> 00:41:18,360  
actually true

914  
00:41:14,730 --> 00:41:20,309  
so I think I responded that I think I

915  
00:41:18,360 --> 00:41:23,160  
don't know yet how's it had to answer

916  
00:41:20,309 --> 00:41:27,449  
actually this question because of course

917  
00:41:23,159 --> 00:41:31,889  
the existence of evil is based on on

918  
00:41:27,449 --> 00:41:33,899  
faith because yeah you cannot

919  
00:41:31,889 --> 00:41:36,779  
investigate this so you cannot have like

920  
00:41:33,900 --> 00:41:40,740  
a scientific proof so it is based on on

921  
00:41:36,780 --> 00:41:43,260  
on faith and I yeah I don't know how to

922  
00:41:40,739 --> 00:41:44,429  
answer this question oh yeah I'm not

923  
00:41:43,260 --> 00:41:46,410  
trying to put you in a spot I'm

924  
00:41:44,429 --> 00:41:48,419  
generally interested in you in your

925  
00:41:46,409 --> 00:41:51,449  
approach this the other thing I wanted

926  
00:41:48,420 --> 00:41:54,329  
to know was you say that it cannot be

927  
00:41:51,449 --> 00:41:57,659  
investigated you put you put quite a lot

928  
00:41:54,329 --> 00:41:59,190  
of value in in evidence perhaps the way

929  
00:41:57,659 --> 00:42:00,629  
I look at evidence in the way you look

930  
00:41:59,190 --> 00:42:03,420  
at evidence is not exactly the same for

931  
00:42:00,630 --> 00:42:06,960  
example you you use a lot of evidence

932  
00:42:03,420 --> 00:42:10,579  
from witnesses as reliably say because

933  
00:42:06,960 --> 00:42:13,409  
it's accumulated it has you take it as

934  
00:42:10,579 --> 00:42:16,559  
good evidence whereas I probably would

935  
00:42:13,409 --> 00:42:18,420  
put less faith in it however you still

936  
00:42:16,559 --> 00:42:21,779  
are looking for evidence you don't

937  
00:42:18,420 --> 00:42:23,940  
simply say okay I have faith that's just

938  
00:42:21,780 --> 00:42:25,500  
out there I was taught and that's it but

939  
00:42:23,940 --> 00:42:26,730  
I'm just wondering but it seems to me

940  
00:42:25,500 --> 00:42:30,110  
like there's a bit of a contradiction

941

00:42:26,730 --> 00:42:34,559  
here that in one say in one way you say

942  
00:42:30,110 --> 00:42:38,519  
I have faith yeah it's based on my the

943  
00:42:34,559 --> 00:42:41,130  
reason I think this is true is based on

944  
00:42:38,519 --> 00:42:43,259  
a very essential level on faith on the

945  
00:42:41,130 --> 00:42:46,260  
other hand you do rely on evidence is

946  
00:42:43,260 --> 00:42:47,880  
the evidence only to convince others or

947  
00:42:46,260 --> 00:42:52,590  
is it also for yourself

948  
00:42:47,880 --> 00:42:53,910  
I think the evidence is that the cases

949  
00:42:52,590 --> 00:42:55,950  
are not single so there are many

950  
00:42:53,909 --> 00:42:59,239  
exorcists over the world that have

951  
00:42:55,949 --> 00:43:05,980  
noticed such regularities that occur

952  
00:42:59,239 --> 00:43:08,319  
during exorcisms so I think you have to

953  
00:43:05,980 --> 00:43:10,780  
you have to claim that all of the people

954  
00:43:08,320 --> 00:43:12,250  
are dishonest and today all the

955  
00:43:10,780 --> 00:43:17,140

exorcists during the centuries were

956

00:43:12,250 --> 00:43:19,539

dishonest and so on of course some

957

00:43:17,139 --> 00:43:21,549

people could say that it doesn't

958

00:43:19,539 --> 00:43:24,579

convince me I would like to investigate

959

00:43:21,550 --> 00:43:27,789

more or maybe good-b during the exorcism

960

00:43:24,579 --> 00:43:31,000

or during thousands of exorcism okay I

961

00:43:27,789 --> 00:43:35,889

haven't been because this is not my role

962

00:43:31,000 --> 00:43:37,869

I I feel fate in the honesty that the

963

00:43:35,889 --> 00:43:40,569

people the exorcists in the Catholic

964

00:43:37,869 --> 00:43:42,550

Church are honest I'm talking only about

965

00:43:40,570 --> 00:43:44,080

the the exhaustion Catholic Church

966

00:43:42,550 --> 00:43:44,680

because as I said they do not take any

967

00:43:44,079 --> 00:43:47,259

money

968

00:43:44,679 --> 00:43:49,569

they must be nominated by a bishop so

969

00:43:47,260 --> 00:43:52,390

they cannot make like a Exorcist career

970  
00:43:49,570 --> 00:43:56,559  
or something like this so they do not

971  
00:43:52,389 --> 00:44:00,608  
have in general any any purpose to to

972  
00:43:56,559 --> 00:44:01,960  
cheat I think I understand that it just

973  
00:44:00,608 --> 00:44:04,299  
I think my question is was more about

974  
00:44:01,960 --> 00:44:06,579  
your attitude to evidence not in terms

975  
00:44:04,300 --> 00:44:08,380  
of what you accept and don't accept but

976  
00:44:06,579 --> 00:44:10,150  
the need for evidence yeah

977  
00:44:08,380 --> 00:44:12,280  
so whether you feel that you need do you

978  
00:44:10,150 --> 00:44:15,550  
feel that you need that evidence or is

979  
00:44:12,280 --> 00:44:17,859  
it is your faith in God and in good and

980  
00:44:15,550 --> 00:44:19,720  
evil in the way in the biblical

981  
00:44:17,858 --> 00:44:22,179  
description is that enough for you

982  
00:44:19,719 --> 00:44:26,199  
no this is enough so I mean in the in

983  
00:44:22,179 --> 00:44:30,099  
the sense that I am convinced that my my

984  
00:44:26,199 --> 00:44:32,649  
belief is intellectually satisfying so

985  
00:44:30,099 --> 00:44:34,029  
it's that my faith is rational and

986  
00:44:32,650 --> 00:44:35,650  
doesn't mean that it can be proved

987  
00:44:34,030 --> 00:44:40,570  
scientifically because it cannot because

988  
00:44:35,650 --> 00:44:44,200  
it's faith but anyway in my opinion I'm

989  
00:44:40,570 --> 00:44:47,859  
very convinced that it is this is

990  
00:44:44,199 --> 00:44:49,929  
rational and coherent faith so it

991  
00:44:47,858 --> 00:44:54,489  
doesn't for example contradict with

992  
00:44:49,929 --> 00:44:56,500  
science so I can so there are this my

993  
00:44:54,489 --> 00:44:59,889  
fate no conflict between my faith and

994  
00:44:56,500 --> 00:45:01,989  
the scientific world let's say and yeah

995  
00:44:59,889 --> 00:45:05,079  
and for example other arguments are that

996  
00:45:01,989 --> 00:45:07,599  
we have this beautiful universe you have

997  
00:45:05,079 --> 00:45:10,779  
something and we know that matter or

998

00:45:07,599 --> 00:45:12,849  
human beings cannot create matter I mean

999  
00:45:10,780 --> 00:45:14,800  
out of nothing because if you have

1000  
00:45:12,849 --> 00:45:17,679  
matter and they'll convert to another

1001  
00:45:14,800 --> 00:45:19,869  
matter this is not creation from ex

1002  
00:45:17,679 --> 00:45:22,409  
nihilo from nothing right so the

1003  
00:45:19,869 --> 00:45:24,460  
question is where is this universe from

1004  
00:45:22,409 --> 00:45:27,730  
so there is no God

1005  
00:45:24,460 --> 00:45:30,880  
so a being that has the power to create

1006  
00:45:27,730 --> 00:45:33,250  
something out of nothing and doesn't

1007  
00:45:30,880 --> 00:45:35,140  
need any creation because this must be

1008  
00:45:33,250 --> 00:45:39,280  
the first cause let's say then if you

1009  
00:45:35,139 --> 00:45:43,389  
don't have this then for me that it's

1010  
00:45:39,280 --> 00:45:46,480  
hard to believe that they exist that the

1011  
00:45:43,389 --> 00:45:49,118  
universe is something that is necessary

1012  
00:45:46,480 --> 00:45:52,000

to be right because we can imagine that

1013

00:45:49,119 --> 00:45:54,340

the universe couldn't be right I'm sure

1014

00:45:52,000 --> 00:45:59,429

so if there is then where is it from

1015

00:45:54,340 --> 00:46:03,329

right yep because it's for me it's not

1016

00:45:59,429 --> 00:46:06,399

possible to take the position that it is

1017

00:46:03,329 --> 00:46:10,299

eternal doesn't need any cause to exist

1018

00:46:06,400 --> 00:46:12,160

and it it was always there what was what

1019

00:46:10,300 --> 00:46:14,470

about God then I mean that is the

1020

00:46:12,159 --> 00:46:16,029

question exactly because because what we

1021

00:46:14,469 --> 00:46:17,108

believe I mean Catholics believe in

1022

00:46:16,030 --> 00:46:19,150

uncreated God

1023

00:46:17,108 --> 00:46:21,519

so like the very nature of God is the

1024

00:46:19,150 --> 00:46:24,369

existence and the power to give

1025

00:46:21,519 --> 00:46:26,320

existence to something else so so this

1026

00:46:24,369 --> 00:46:28,150

is this is Rati what also the big bang

1027  
00:46:26,320 --> 00:46:30,580  
theory is essentially the same things

1028  
00:46:28,150 --> 00:46:31,840  
existed like that there's no moment of

1029  
00:46:30,579 --> 00:46:34,719  
creation it's just a moment that

1030  
00:46:31,840 --> 00:46:37,090  
something specific started yeah but even

1031  
00:46:34,719 --> 00:46:40,599  
if you assume even if you assume that

1032  
00:46:37,090 --> 00:46:43,119  
the universe didn't have any beginning

1033  
00:46:40,599 --> 00:46:44,858  
in time so ever it was little null again

1034  
00:46:43,119 --> 00:46:46,960  
yeah but it had but even if it's

1035  
00:46:44,858 --> 00:46:48,789  
internal in time anyway you need

1036  
00:46:46,960 --> 00:46:48,990  
explanation about the original because

1037  
00:46:48,789 --> 00:46:51,300  
the

1038  
00:46:48,989 --> 00:46:53,399  
you get something else in the region so

1039  
00:46:51,300 --> 00:46:55,440  
let us say that tip to me it sounds like

1040  
00:46:53,400 --> 00:46:58,380  
basically what you're saying is God has

1041  
00:46:55,440 --> 00:47:00,240  
an exemption you know and what God has

1042  
00:46:58,380 --> 00:47:02,070  
an exemption you don't like God doesn't

1043  
00:47:00,239 --> 00:47:04,139  
need to worry about this chain of

1044  
00:47:02,070 --> 00:47:05,700  
causality exactly because this is the

1045  
00:47:04,139 --> 00:47:08,279  
first but it's a definitional thing yes

1046  
00:47:05,699 --> 00:47:11,269  
yeah okay one last question I would like

1047  
00:47:08,280 --> 00:47:13,800  
to ask you is with regards to

1048  
00:47:11,269 --> 00:47:16,110  
specifically Catholicism you're

1049  
00:47:13,800 --> 00:47:18,269  
obviously a man of faith you you it's

1050  
00:47:16,110 --> 00:47:21,809  
here to believe yesterday you were asked

1051  
00:47:18,269 --> 00:47:23,759  
about what if it's you know okay it's

1052  
00:47:21,809 --> 00:47:27,150  
the pro no let's assume the paranormal

1053  
00:47:23,760 --> 00:47:29,910  
exists however it's not an angel of God

1054  
00:47:27,150 --> 00:47:31,829  
that does this it's it's a Jew Jew from

1055

00:47:29,909 --> 00:47:35,969  
Kenya that you know that holds the

1056  
00:47:31,829 --> 00:47:37,529  
person above the water I'm assuming that

1057  
00:47:35,969 --> 00:47:39,659  
you've put your mind to this to this

1058  
00:47:37,530 --> 00:47:40,650  
question I'm just wondering how you

1059  
00:47:39,659 --> 00:47:42,929  
would respond to it

1060  
00:47:40,650 --> 00:47:46,170  
what is it what if what what is it that

1061  
00:47:42,929 --> 00:47:48,029  
makes Catholicism special in there if we

1062  
00:47:46,170 --> 00:47:49,980  
if we assume that the parable exists

1063  
00:47:48,030 --> 00:47:50,400  
what is it that makes pathology seem

1064  
00:47:49,980 --> 00:47:51,780  
special

1065  
00:47:50,400 --> 00:47:54,150  
apart from the fact that you grow up in

1066  
00:47:51,780 --> 00:47:56,430  
that kind of culture and in that kind of

1067  
00:47:54,150 --> 00:47:58,579  
faith and that's what you were raised to

1068  
00:47:56,429 --> 00:47:58,579  
believe

1069  
00:47:58,849 --> 00:48:04,489

yeah I was raised but in this my free

1070

00:48:01,880 --> 00:48:06,440  
will that I remain Catholic if like I

1071

00:48:04,489 --> 00:48:09,409  
could I could I could couldn't be I

1072

00:48:06,440 --> 00:48:14,990  
could get rid of of my faith let's say

1073

00:48:09,409 --> 00:48:16,489  
and change so but as I yeah so but but

1074

00:48:14,989 --> 00:48:18,649  
this is basically what I what I answered

1075

00:48:16,489 --> 00:48:21,019  
already I think that that intellectually

1076

00:48:18,650 --> 00:48:23,900  
my faith discourse is coherent is

1077

00:48:21,019 --> 00:48:27,590  
rational and this coherent with science

1078

00:48:23,900 --> 00:48:31,460  
so so this is these are the arguments

1079

00:48:27,590 --> 00:48:33,650  
that are most important for me and also

1080

00:48:31,460 --> 00:48:36,320  
the the origin of the of the universe of

1081

00:48:33,650 --> 00:48:38,570  
everything actually off of why there is

1082

00:48:36,320 --> 00:48:41,720  
not a something than nothing right and

1083

00:48:38,570 --> 00:48:46,250  
what is the origin the source so without

1084  
00:48:41,719 --> 00:48:48,919  
God it's not it's not possible right my

1085  
00:48:46,250 --> 00:48:50,659  
opinion so actually I said unless well I

1086  
00:48:48,920 --> 00:48:52,880  
do have one last one final question in

1087  
00:48:50,659 --> 00:48:54,349  
addition I mean obviously there were a

1088  
00:48:52,880 --> 00:48:56,539  
couple

1089  
00:48:54,349 --> 00:48:58,519  
silly questions from the audience which

1090  
00:48:56,539 --> 00:49:00,079  
I was glad that you ignored because I

1091  
00:48:58,519 --> 00:49:03,500  
don't think they represented the overall

1092  
00:49:00,079 --> 00:49:04,549  
attitude how do you feel I mean I don't

1093  
00:49:03,500 --> 00:49:06,559  
know whether you've done something like

1094  
00:49:04,550 --> 00:49:08,300  
this before but having attended the

1095  
00:49:06,559 --> 00:49:09,949  
conference like this yesterday was it it

1096  
00:49:08,300 --> 00:49:13,670  
was again there was definitely a lot of

1097  
00:49:09,949 --> 00:49:17,000  
arguments against your position but do

1098  
00:49:13,670 --> 00:49:18,170  
you feel that the debate was useful do

1099  
00:49:17,000 --> 00:49:19,519  
you feel that it was big people

1100  
00:49:18,170 --> 00:49:21,139  
listening do you feel that he was

1101  
00:49:19,519 --> 00:49:23,869  
respectful enough how do you feel about

1102  
00:49:21,139 --> 00:49:26,839  
that no I actually I expected that there

1103  
00:49:23,869 --> 00:49:28,730  
will be a stronger position some some

1104  
00:49:26,840 --> 00:49:31,519  
some arguments were good and the

1105  
00:49:28,730 --> 00:49:33,800  
questions I like to actually to to talk

1106  
00:49:31,519 --> 00:49:35,960  
to people with different opposite

1107  
00:49:33,800 --> 00:49:38,530  
opposite views or I have already certain

1108  
00:49:35,960 --> 00:49:42,019  
experience from from Norway from the

1109  
00:49:38,530 --> 00:49:44,930  
scientific environment from the

1110  
00:49:42,019 --> 00:49:50,690  
scientists that are 80s but some some

1111  
00:49:44,929 --> 00:49:52,849  
people reacted reacted not they didn't

1112

00:49:50,690 --> 00:49:55,220  
use argumentation arguments but they

1113  
00:49:52,849 --> 00:49:59,029  
reacted somehow emotionally or wanted to

1114  
00:49:55,219 --> 00:50:00,739  
discredit what I what I said so I think

1115  
00:49:59,030 --> 00:50:03,860  
this is not a proper a proper

1116  
00:50:00,739 --> 00:50:08,059  
documentation a proper we within let's

1117  
00:50:03,860 --> 00:50:10,849  
say people that talk a lot about science

1118  
00:50:08,059 --> 00:50:12,829  
and arguments because I had also summer

1119  
00:50:10,849 --> 00:50:13,860  
girls and tried to put the presentation

1120  
00:50:12,829 --> 00:50:16,219  
in

1121  
00:50:13,860 --> 00:50:18,858  
[Music]

1122  
00:50:16,219 --> 00:50:20,358  
okay I think that's that's assigned to

1123  
00:50:18,858 --> 00:50:32,690  
anomalies thank you very much done

1124  
00:50:20,358 --> 00:50:34,549  
skeptical oh thank you thank you hey

1125  
00:50:32,690 --> 00:50:37,068  
people tickets are available for the

1126  
00:50:34,550 --> 00:50:39,380

skeptics convention dinner that's right

1127

00:50:37,068 --> 00:50:41,239

as part of skeptic on at every stray

1128

00:50:39,380 --> 00:50:42,200

lien skeptic National Convention there's

1129

00:50:41,239 --> 00:50:44,779

a formal dinner

1130

00:50:42,199 --> 00:50:46,969

or should I say there is a full dinner

1131

00:50:44,780 --> 00:50:50,060

the social highlight of an already

1132

00:50:46,969 --> 00:50:53,328

highlight full event that's right people

1133

00:50:50,059 --> 00:50:55,429

will be talking and skeptic on 2017 will

1134

00:50:53,329 --> 00:50:57,260

be no exception that's right no

1135

00:50:55,429 --> 00:50:58,578

exception not even you

1136

00:50:57,260 --> 00:51:01,190

the dinner will be held on Saturday

1137

00:50:58,579 --> 00:51:04,180

November 18th that's right

1138

00:51:01,190 --> 00:51:06,829

write that in your calendar right now

1139

00:51:04,179 --> 00:51:10,489

yeah I know you having fun it get a

1140

00:51:06,829 --> 00:51:12,560

pencil then okay Saturday November 18th

1141  
00:51:10,489 --> 00:51:15,469  
at the Sheraton on the park Grand

1142  
00:51:12,559 --> 00:51:16,909  
Ballroom Elizabeth Street Sydney I think

1143  
00:51:15,469 --> 00:51:19,489  
I went out with Lizabeth Street that's

1144  
00:51:16,909 --> 00:51:21,679  
in Elizabeth Street Sydney it promises

1145  
00:51:19,489 --> 00:51:25,729  
to be a grand event in its own right and

1146  
00:51:21,679 --> 00:51:28,129  
its own left but certainly not its own

1147  
00:51:25,730 --> 00:51:30,289  
alt right you know what I'm saying

1148  
00:51:28,130 --> 00:51:32,358  
you know you go okay you people tough

1149  
00:51:30,289 --> 00:51:33,739  
crowd the ticketed dinner will cost a

1150  
00:51:32,358 --> 00:51:37,279  
hundred and thirty dollars per person

1151  
00:51:33,739 --> 00:51:39,379  
and it includes a three-course meal plus

1152  
00:51:37,280 --> 00:51:42,890  
coffee and tea oh well that's worth

1153  
00:51:39,380 --> 00:51:45,769  
around sone all drinks wine beer and

1154  
00:51:42,889 --> 00:51:47,989  
soft drinks musical entertainment from

1155  
00:51:45,769 --> 00:51:49,329  
rien scheana Ward winning music producer

1156  
00:51:47,989 --> 00:51:52,489  
and screen composer from New Zealand

1157  
00:51:49,329 --> 00:51:54,670  
known for his fusion of atmospheric post

1158  
00:51:52,489 --> 00:51:59,179  
rock with electronic and chamber music

1159  
00:51:54,670 --> 00:52:00,349  
that sounds dangerous confusion what so

1160  
00:51:59,179 --> 00:52:03,409  
it's get like CERN is it

1161  
00:52:00,349 --> 00:52:04,910  
I'm on era angle well look look this

1162  
00:52:03,409 --> 00:52:08,029  
this may be an issue for some people

1163  
00:52:04,909 --> 00:52:10,250  
there will be alleged magician comedian

1164  
00:52:08,030 --> 00:52:11,869  
Eli Baz neck and podcaster from

1165  
00:52:10,250 --> 00:52:14,030  
god-awful movies and the scathing

1166  
00:52:11,869 --> 00:52:16,700  
atheist is also known to Australian

1167  
00:52:14,030 --> 00:52:18,650  
customs and you know why the annual

1168  
00:52:16,699 --> 00:52:21,078  
skeptic award will be announced that's

1169

00:52:18,650 --> 00:52:23,710  
right the annual skeptic Awards will be

1170  
00:52:21,079 --> 00:52:25,750  
announced the skeptic of the year

1171  
00:52:23,710 --> 00:52:27,909  
award for the promotion of reason and

1172  
00:52:25,750 --> 00:52:30,760  
the least solder for award of the year

1173  
00:52:27,909 --> 00:52:33,940  
anywhere the bent spoon not to mention

1174  
00:52:30,760 --> 00:52:35,530  
the conviviality and fun of the largest

1175  
00:52:33,940 --> 00:52:39,039  
annual gathering of skeptics in

1176  
00:52:35,530 --> 00:52:40,390  
Australia and Eli Bostick the Sheraton

1177  
00:52:39,039 --> 00:52:42,460  
on the park is only a short walk from

1178  
00:52:40,389 --> 00:52:45,009  
the convention venue at the city of

1179  
00:52:42,460 --> 00:52:47,019  
saddle hall angel plays Sydney all of

1180  
00:52:45,010 --> 00:52:49,420  
welcome to this kid friendly event

1181  
00:52:47,019 --> 00:52:52,420  
tickets are available from sceptics calm

1182  
00:52:49,420 --> 00:53:07,440  
but are you for all your sceptical needs

1183  
00:52:52,420 --> 00:53:07,440

[Music]

1184

00:53:13,920 --> 00:53:17,710

thank you for listening to the skeptic

1185

00:53:16,150 --> 00:53:21,010

Zen podcast coming up over the next few

1186

00:53:17,710 --> 00:53:23,440

weeks more from psych on 2017 from Las

1187

00:53:21,010 --> 00:53:28,270

Vegas where I am right now I look out

1188

00:53:23,440 --> 00:53:30,789

the window what do I see bright sunny

1189

00:53:28,269 --> 00:53:33,460

day and I have a view looking into the

1190

00:53:30,789 --> 00:53:35,289

middle of the hotel complex here which

1191

00:53:33,460 --> 00:53:37,389

isn't very exciting but I can sort of

1192

00:53:35,289 --> 00:53:39,489

see the corner out of the corner of the

1193

00:53:37,389 --> 00:53:42,578

view a roller coaster

1194

00:53:39,489 --> 00:53:44,709

that's Las Vegas for you a big shout out

1195

00:53:42,579 --> 00:53:47,410

to our reporter Maynard who is busily

1196

00:53:44,710 --> 00:53:49,329

preparing for a life bunga bunga in

1197

00:53:47,409 --> 00:53:52,358

Sydney and you can find out more about

1198  
00:53:49,329 --> 00:53:54,910  
that at Maynard comdata you and I hope

1199  
00:53:52,358 --> 00:53:56,710  
to see you at that live performance but

1200  
00:53:54,909 --> 00:53:58,179  
until next week when I'll be back in

1201  
00:53:56,710 --> 00:54:01,088  
Sydney Australia this is Richard

1202  
00:53:58,179 --> 00:54:08,019  
Saunders signing off from Las Vegas

1203  
00:54:01,088 --> 00:54:10,719  
Nevada you've been listening to the

1204  
00:54:08,019 --> 00:54:15,300  
skeptic zone podcast please visit our

1205  
00:54:10,719 --> 00:54:18,608  
website at WWDC be for show notes

1206  
00:54:15,300 --> 00:54:22,660  
contacts and to access the bat catalog

1207  
00:54:18,608 --> 00:54:24,519  
of episodes going back to 2008 you can

1208  
00:54:22,659 --> 00:54:27,578  
follow the skeptic zone podcast on

1209  
00:54:24,519 --> 00:54:29,858  
twitter at skeptic zone visit our

1210  
00:54:27,579 --> 00:54:30,750  
facebook page or leave a review on

1211  
00:54:29,858 --> 00:54:33,429  
itunes

1212  
00:54:30,750 --> 00:54:37,329  
you can also support the skeptic zone

1213  
00:54:33,429 --> 00:54:39,909  
via patreon or PayPal you can be part of

1214  
00:54:37,329 --> 00:54:44,318  
the show by downloading the voice byte

1215  
00:54:39,909 --> 00:54:47,679  
app at Voice bite comm and using the

1216  
00:54:44,318 --> 00:54:50,400  
hashtag skeptic zone the skeptic zone

1217  
00:54:47,679 --> 00:54:52,779  
podcast is an independent production

1218  
00:54:50,400 --> 00:54:54,940  
reviews and opinions expressed on the

1219  
00:54:52,780 --> 00:54:57,250  
skeptic zone are not necessarily those

1220  
00:54:54,940 --> 00:54:59,039  
of Australian skeptics or any other

1221  
00:54:57,250 --> 00:55:05,449  
sceptical organisation

1222  
00:54:59,039 --> 00:55:05,449  
[Music]