

1
00:00:06,009 --> 00:00:13,679
welcome to the skeptic zone the podcast

2
00:00:09,099 --> 00:00:13,679
from Australia for science and reason

3
00:00:22,210 --> 00:00:29,750
hello and welcome to the skeptics are an

4
00:00:24,919 --> 00:00:32,808
episode number 379 for the 24th of

5
00:00:29,750 --> 00:00:35,649
January 2016 Richard Saunders here with

6
00:00:32,808 --> 00:00:39,140
you from Maggie Maggie Maggie Maggie

7
00:00:35,649 --> 00:00:41,989
overcast and Maggie Sydney Australia and

8
00:00:39,140 --> 00:00:44,390
it's muggy did I say it was muggy coming

9
00:00:41,988 --> 00:00:47,658
up on this week's show a special report

10
00:00:44,390 --> 00:00:50,710
a special and for me what a pleasure it

11
00:00:47,658 --> 00:00:53,808
was a special report I go to the

12
00:00:50,710 --> 00:00:57,768
powerhouse museum here in Sydney and

13
00:00:53,808 --> 00:01:00,140
have a lovely tour of a new exhibition

14
00:00:57,768 --> 00:01:02,588
well and exhibitions been on for a

15
00:01:00,140 --> 00:01:05,000
little while now with Tilly Berlin and

16
00:01:02,588 --> 00:01:06,849
Frankie Lee now they were gracious

17
00:01:05,000 --> 00:01:10,609
enough to give me a guided tour of the

18
00:01:06,849 --> 00:01:13,819
recollect health and medicine exhibition

19
00:01:10,609 --> 00:01:15,709
now this is a fascinating exhibition the

20
00:01:13,819 --> 00:01:18,109
powerhouse museum where they have

21
00:01:15,709 --> 00:01:19,969
brought up a lot of the stored items

22
00:01:18,109 --> 00:01:22,670
they have that never really see the

23
00:01:19,969 --> 00:01:26,109
light of day when it comes to medical

24
00:01:22,670 --> 00:01:28,730
history and what a collection they have

25
00:01:26,109 --> 00:01:31,280
including I'm very pleased to say some

26
00:01:28,730 --> 00:01:34,090
things that I've donated to the

27
00:01:31,280 --> 00:01:39,049
exhibition by way of quack products

28
00:01:34,090 --> 00:01:41,600
quackery earlier candles and lots of

29

00:01:39,049 --> 00:01:44,000
other things so coming up at the top of

30
00:01:41,599 --> 00:01:46,579
the show join me and Tilly and Frankie

31
00:01:44,000 --> 00:01:48,590
as we wander around this exhibition and

32
00:01:46,579 --> 00:01:50,239
if you're in Sydney or you're coming to

33
00:01:48,590 --> 00:01:52,909
Sydney over the next couple of months I

34
00:01:50,239 --> 00:01:55,189
can really recommend visiting the

35
00:01:52,909 --> 00:01:57,310
powerhouse museum very easy to find and

36
00:01:55,189 --> 00:01:59,298
having a look at this exhibition

37
00:01:57,310 --> 00:02:01,310
following that it's a week in science

38
00:01:59,299 --> 00:02:06,409
from the Royal Institution of Australia

39
00:02:01,310 --> 00:02:08,840
w WR I a us Toby you and then I'll

40
00:02:06,409 --> 00:02:12,069
report on a recent development here to

41
00:02:08,840 --> 00:02:16,128
do with something called psychic TV

42
00:02:12,068 --> 00:02:19,969
psychic TV show that emanates from

43
00:02:16,128 --> 00:02:22,579

Sydney and it's ever there's been some

44

00:02:19,969 --> 00:02:24,259
controversy as reported in the

45

00:02:22,580 --> 00:02:26,659
newspapers today we'll get to that a bit

46

00:02:24,259 --> 00:02:28,579
later in the show there is a lot of news

47

00:02:26,658 --> 00:02:31,340
about at the moment with a chiropractic

48

00:02:28,580 --> 00:02:34,130
board of Australia under investigation

49

00:02:31,340 --> 00:02:38,110
and criticism there's more

50

00:02:34,129 --> 00:02:40,819
fall out due to the seemingly ridiculous

51

00:02:38,110 --> 00:02:43,010
PhD awarded by the University of

52

00:02:40,819 --> 00:02:46,729
Wollongong to an anti vac sir and we're

53

00:02:43,009 --> 00:02:48,799
not forgetting Mark Zuckerberg and the

54

00:02:46,729 --> 00:02:50,329
fallout from him posting a picture of

55

00:02:48,800 --> 00:02:53,060
his daughter at the doctor waiting to

56

00:02:50,330 --> 00:02:55,130
get her vaccinations but they might have

57

00:02:53,060 --> 00:02:56,539
to wait till next week well that's

58
00:02:55,129 --> 00:02:58,430
enough for me at the moment I got to run

59
00:02:56,539 --> 00:03:01,189
downstairs open up the fridge and dive

60
00:02:58,430 --> 00:03:03,080
into the freezer shut the door and have

61
00:03:01,189 --> 00:03:27,110
a root beer well I'm doing that I hope

62
00:03:03,080 --> 00:03:30,110
you enjoy the skeptic zone we are

63
00:03:27,110 --> 00:03:32,270
wonderful atmospheric tones of a museum

64
00:03:30,110 --> 00:03:35,540
and we are the powerhouse museum here in

65
00:03:32,270 --> 00:03:37,880
Sydney Australia this is a being a place

66
00:03:35,539 --> 00:03:38,840
of pilgrimage for me for many years I

67
00:03:37,879 --> 00:03:40,849
come here to do the mystery

68
00:03:38,840 --> 00:03:43,909
investigators show but apart from that I

69
00:03:40,849 --> 00:03:45,620
love to come here regardless i'm very

70
00:03:43,909 --> 00:03:47,719
lucky today to be in the company of two

71
00:03:45,620 --> 00:03:49,759
eminent people who do we have here and

72
00:03:47,719 --> 00:03:51,349
what's your position hi I'm till E

73
00:03:49,759 --> 00:03:53,750
Berlin I'm the health and medicine

74
00:03:51,349 --> 00:03:55,549
curator at the powerhouse museum what an

75
00:03:53,750 --> 00:03:57,949
interesting job mmm what are you very

76
00:03:55,550 --> 00:04:00,350
Joe interesting and we have hi I'm

77
00:03:57,949 --> 00:04:02,589
Frankie Lee and I work as a one of the

78
00:04:00,349 --> 00:04:06,079
producers of the Sydney Science Festival

79
00:04:02,590 --> 00:04:07,400
another great job I'm very jealous i'm

80
00:04:06,080 --> 00:04:08,959
very jealous so we're here at the

81
00:04:07,400 --> 00:04:10,459
powerhouse museum today and we're going

82
00:04:08,959 --> 00:04:11,719
to be looking through an exhibition

83
00:04:10,459 --> 00:04:14,180
which has been running for a few months

84
00:04:11,719 --> 00:04:17,180
and has got a few more months to run

85
00:04:14,180 --> 00:04:20,180
indeed it has it's called recollect

86

00:04:17,180 --> 00:04:22,939
health and medicine and it's the sixth

87
00:04:20,180 --> 00:04:25,100
in our recollect series which is a way

88
00:04:22,939 --> 00:04:27,860
that the museum tackles a problem that

89
00:04:25,100 --> 00:04:31,580
all big institutions have in that we

90
00:04:27,860 --> 00:04:34,879
have half a million objects but at any

91
00:04:31,579 --> 00:04:37,399
one time only two or maybe three percent

92
00:04:34,879 --> 00:04:40,370
of them are actually available for

93
00:04:37,399 --> 00:04:43,489
people to look at so recollects are a

94
00:04:40,370 --> 00:04:45,620
way that we can quite quickly rotate

95
00:04:43,490 --> 00:04:47,960
large amounts of objects around

96
00:04:45,620 --> 00:04:50,829
particular theme so that our visitors

97
00:04:47,959 --> 00:04:54,829
can come and see study and enjoy them

98
00:04:50,829 --> 00:04:57,259
more regularly fantastic yeah so this

99
00:04:54,829 --> 00:04:59,629
particular exhibition is on all about

100
00:04:57,259 --> 00:05:01,719

well it's a section of our health and

101

00:04:59,629 --> 00:05:04,639

medicine collection there are more than

102

00:05:01,720 --> 00:05:06,110

2,000 objects and I thought that we

103

00:05:04,639 --> 00:05:08,900

could go through and just touch on a few

104

00:05:06,110 --> 00:05:12,050

of my favorites so we're starting our

105

00:05:08,899 --> 00:05:14,089

little walk now we're in the lower level

106

00:05:12,050 --> 00:05:16,400

of the museum and as a massive museum I

107

00:05:14,089 --> 00:05:19,069

must say yeah its massive and it's like

108

00:05:16,399 --> 00:05:21,439

a true it's got that true museum feel

109

00:05:19,069 --> 00:05:24,079

about it hasn't it thank you yes it does

110

00:05:21,439 --> 00:05:25,490

that's what comes with awesome objects

111

00:05:24,079 --> 00:05:26,719

populated throughout a building and

112

00:05:25,490 --> 00:05:29,509

looking at some now but they're only

113

00:05:26,720 --> 00:05:31,430

photographs okay yeah so this entry into

114

00:05:29,509 --> 00:05:34,339

the recollect is to really try to

115
00:05:31,430 --> 00:05:37,819
reinforce to people that it's visible

116
00:05:34,339 --> 00:05:39,500
collection storage what that means is we

117
00:05:37,819 --> 00:05:41,449
are taking these objects out of the

118
00:05:39,500 --> 00:05:44,029
collection store and we're putting them

119
00:05:41,449 --> 00:05:46,090
on display in pretty much the same way

120
00:05:44,029 --> 00:05:49,549
that we store them so it's a way of

121
00:05:46,089 --> 00:05:52,009
really quickly and without much money

122
00:05:49,550 --> 00:05:54,710
being able to really rotate objects

123
00:05:52,009 --> 00:05:56,569
inside the museum so as we as we see the

124
00:05:54,709 --> 00:05:58,129
big objects down the gallery that will

125
00:05:56,569 --> 00:06:00,439
go and have a look at their not on

126
00:05:58,129 --> 00:06:03,649
beautiful fancy plants what they're on

127
00:06:00,439 --> 00:06:06,469
is the actual crates that we store them

128
00:06:03,649 --> 00:06:09,109
on so it gives you a little snapshot

129
00:06:06,470 --> 00:06:11,270
into how we store objects and these

130
00:06:09,110 --> 00:06:12,919
photographs on the wall show you how

131
00:06:11,269 --> 00:06:14,689
they're genuinely stored in our

132
00:06:12,918 --> 00:06:16,399
collection and they're life-sized yet

133
00:06:14,689 --> 00:06:17,899
the life-size as we look at the

134
00:06:16,399 --> 00:06:19,519
photographs on the wall here they're

135
00:06:17,899 --> 00:06:21,259
high detailed high-res I guess you'd

136
00:06:19,519 --> 00:06:22,609
call them yeah life-size so this is

137
00:06:21,259 --> 00:06:24,319
exactly what I'd see in the storage

138
00:06:22,610 --> 00:06:26,689
that's right so you walk through rows

139
00:06:24,319 --> 00:06:28,899
and rows and rows of these compact is's

140
00:06:26,689 --> 00:06:31,420
where are all our treasures are stored

141
00:06:28,899 --> 00:06:33,339
treasures there's

142
00:06:31,420 --> 00:06:38,500
walk down the corridor here that the

143

00:06:33,339 --> 00:06:40,509
hallway hello these people they're not

144
00:06:38,500 --> 00:06:43,360
looking well at all we've got some cross

145
00:06:40,509 --> 00:06:45,789
sections of human heads here yeah so

146
00:06:43,360 --> 00:06:47,980
this particular cabinet is about

147
00:06:45,790 --> 00:06:50,230
conserving objects and about the sort of

148
00:06:47,980 --> 00:06:52,569
troubles that a museum runs into so

149
00:06:50,230 --> 00:06:55,900
we've got four different heads here and

150
00:06:52,569 --> 00:06:58,329
each of them has had different wear and

151
00:06:55,899 --> 00:07:00,219
tear based on what material they're made

152
00:06:58,329 --> 00:07:03,039
out of so we start off with this skull

153
00:07:00,220 --> 00:07:04,960
here yeah and tell me what you see on

154
00:07:03,040 --> 00:07:08,350
the top of the skull anything unusual

155
00:07:04,959 --> 00:07:10,739
well slightly discolored go see what's a

156
00:07:08,350 --> 00:07:15,670
little black dots yeah they're actually

157
00:07:10,740 --> 00:07:18,100

holds their insect Bora holes because

158

00:07:15,670 --> 00:07:20,770

that's made out of paper mache and so

159

00:07:18,100 --> 00:07:23,500

hopefully before it came to us rather

160

00:07:20,769 --> 00:07:24,969

than after i think it was before this

161

00:07:23,500 --> 00:07:30,939

would have been a teaching tool in the

162

00:07:24,970 --> 00:07:33,670

university side and it has been lived in

163

00:07:30,939 --> 00:07:35,769

by some phone sex so that's one of the

164

00:07:33,670 --> 00:07:38,319

things that a museum needs to make sure

165

00:07:35,769 --> 00:07:41,979

that we keep all of our stores and our

166

00:07:38,319 --> 00:07:45,279

museum buildings insect free um the next

167

00:07:41,980 --> 00:07:48,310

one along its it's half actual skull and

168

00:07:45,279 --> 00:07:50,439

then plastics years let's walk around

169

00:07:48,310 --> 00:07:52,509

the other side of the cabinet here we

170

00:07:50,439 --> 00:07:55,240

could all my goodness mean it's it's

171

00:07:52,509 --> 00:08:00,159

like Indiana Jones and slightly

172
00:07:55,240 --> 00:08:02,430
terrified slightly terrifying so we've

173
00:08:00,160 --> 00:08:06,730
got real skull but then we've got

174
00:08:02,430 --> 00:08:09,009
plastics and wire in red and in blue to

175
00:08:06,730 --> 00:08:12,460
show veins and arteries running up the

176
00:08:09,009 --> 00:08:15,069
face and the skull and we've got plastic

177
00:08:12,459 --> 00:08:17,139
teeth and some of these have degraded

178
00:08:15,069 --> 00:08:19,909
they all degrade differently over time

179
00:08:17,139 --> 00:08:22,589
and so we all

180
00:08:19,910 --> 00:08:24,300
so true and so we have a whole

181
00:08:22,589 --> 00:08:28,019
department of people in the museum

182
00:08:24,300 --> 00:08:30,629
called the conservators their sole job

183
00:08:28,019 --> 00:08:32,579
is to try and keep all of our objects up

184
00:08:30,629 --> 00:08:34,860
to the standard that they came to us in

185
00:08:32,580 --> 00:08:37,080
so because when we take an object into

186
00:08:34,860 --> 00:08:39,538
the museum what we're committing to is

187
00:08:37,080 --> 00:08:41,908
keeping that object in perpetuity of

188
00:08:39,538 --> 00:08:44,610
course forever of course yes this next

189
00:08:41,908 --> 00:08:47,189
one again paper mache oh very well the

190
00:08:44,610 --> 00:08:49,050
massive crack through the skull is not

191
00:08:47,190 --> 00:08:51,240
meant to be there so that's come from

192
00:08:49,049 --> 00:08:53,429
temperature variation when it was being

193
00:08:51,240 --> 00:08:56,310
stored it would have heated up and

194
00:08:53,429 --> 00:08:59,009
cooled down and over time over decades

195
00:08:56,309 --> 00:09:00,959
that happened so a beautiful it's a

196
00:08:59,009 --> 00:09:02,250
beautiful rendering now just come in the

197
00:09:00,960 --> 00:09:06,060
other side of the cabinet once again

198
00:09:02,250 --> 00:09:07,860
it's it's so well done for paper mache

199
00:09:06,059 --> 00:09:10,379
I'm quite surprised yeah we have some

200

00:09:07,860 --> 00:09:12,360
absolutely gorgeous paper mache models

201
00:09:10,379 --> 00:09:17,399
they are stunning there's a heart that

202
00:09:12,360 --> 00:09:19,470
will take your heart away this guy here

203
00:09:17,399 --> 00:09:21,899
what is please real so that's a real

204
00:09:19,470 --> 00:09:23,610
human skull and that degrades in a

205
00:09:21,899 --> 00:09:26,850
different way but certainly not as much

206
00:09:23,610 --> 00:09:31,350
as paper mache it's not as in danger of

207
00:09:26,850 --> 00:09:34,139
insect population but yet has its own

208
00:09:31,350 --> 00:09:35,940
concerns that we need to ensure that

209
00:09:34,139 --> 00:09:38,129
we're keeping it in a really stable

210
00:09:35,940 --> 00:09:39,870
environment which we do over in our

211
00:09:38,129 --> 00:09:42,088
collection store which is under the next

212
00:09:39,870 --> 00:09:44,339
building along where it's all climate

213
00:09:42,089 --> 00:09:46,580
controlled temperature controlled insect

214
00:09:44,339 --> 00:09:46,580

control

215

00:09:46,850 --> 00:09:54,290

one theme the next one we come along too

216

00:09:50,360 --> 00:09:58,159

oh it's called cut it well no wonder

217

00:09:54,289 --> 00:09:59,149

we're looking at folks were looking it's

218

00:09:58,159 --> 00:10:03,559

in the middle of the room here they

219

00:09:59,149 --> 00:10:05,328

extend on quite a bit and on red sort of

220

00:10:03,559 --> 00:10:07,899

material going up about eight or nine

221

00:10:05,328 --> 00:10:10,758

feet we have lots of looks like

222

00:10:07,899 --> 00:10:14,360

antiquated surgical equipment we have

223

00:10:10,759 --> 00:10:18,769

bone saws and faucets and all sorts of

224

00:10:14,360 --> 00:10:21,829

clamps and things like that and we also

225

00:10:18,769 --> 00:10:23,539

have an object that when I was so myself

226

00:10:21,828 --> 00:10:25,189

and another curator were pulling

227

00:10:23,539 --> 00:10:28,909

together what objects would go on

228

00:10:25,190 --> 00:10:31,100

display here and we were just having a

229
00:10:28,909 --> 00:10:33,110
look in the collection immersed in

230
00:10:31,100 --> 00:10:35,300
objects and I picked up one of these

231
00:10:33,110 --> 00:10:37,550
little suckers yeah they look like

232
00:10:35,299 --> 00:10:41,269
phases from Star Trek office yeah Oh

233
00:10:37,549 --> 00:10:45,349
finally they were the label red tonsil

234
00:10:41,269 --> 00:10:48,649
guillotine which made me exactly all

235
00:10:45,350 --> 00:10:50,170
that made me made me squeal isn't is

236
00:10:48,649 --> 00:10:53,049
just went

237
00:10:50,169 --> 00:10:55,719
oh well but we have such a gorgeous

238
00:10:53,049 --> 00:10:57,639
array of the design changing over time

239
00:10:55,720 --> 00:10:59,740
so these ones on display in the museum

240
00:10:57,639 --> 00:11:01,839
they're just you type they look a little

241
00:10:59,740 --> 00:11:04,019
bit like a gun but you hook over the

242
00:11:01,839 --> 00:11:08,290
hole over the tonsil and then you eat

243

00:11:04,019 --> 00:11:10,629

guillotine but then you look at

244

00:11:08,289 --> 00:11:13,000

development over time they had two

245

00:11:10,629 --> 00:11:15,629

triggers and the second triggers pulled

246

00:11:13,000 --> 00:11:18,190

out these little pizzas that would

247

00:11:15,629 --> 00:11:21,059

respond to the mall messing around here

248

00:11:18,190 --> 00:11:23,380

it's amazing it's just innovation in

249

00:11:21,059 --> 00:11:26,948

medical instrument making a very awesome

250

00:11:23,379 --> 00:11:28,958

and we've also got a trepanning tool

251

00:11:26,948 --> 00:11:31,269

here which is the first type of

252

00:11:28,958 --> 00:11:34,569

operation that we've got evidence human

253

00:11:31,269 --> 00:11:38,860

beings survived after this is a skull

254

00:11:34,570 --> 00:11:42,220

yeah it's like a hand hand driven skull

255

00:11:38,860 --> 00:11:45,789

yeah yeah screws into it you make a hole

256

00:11:42,220 --> 00:11:47,620

that's right a hole in the skull well it

257

00:11:45,789 --> 00:11:49,929
was actually before it was to access the

258
00:11:47,620 --> 00:11:52,600
brain it was to relieve pressure or to

259
00:11:49,929 --> 00:11:57,698
release spirits you know fake wailing

260
00:11:52,600 --> 00:11:59,860
that was stuck in this car okay that's a

261
00:11:57,698 --> 00:12:01,689
real one well that's that's the real one

262
00:11:59,860 --> 00:12:05,440
it's so interesting and you're right

263
00:12:01,690 --> 00:12:10,029
about the antiquated I mean could book

264
00:12:05,440 --> 00:12:12,070
the centuries ago many years ago doctors

265
00:12:10,028 --> 00:12:14,350
would have artisans make up their

266
00:12:12,070 --> 00:12:16,300
toolkits and then they use them for the

267
00:12:14,350 --> 00:12:18,310
rest of their lives before we knew about

268
00:12:16,299 --> 00:12:21,429
sterilization before we knew about the

269
00:12:18,309 --> 00:12:23,409
germ theory that was and we have some

270
00:12:21,429 --> 00:12:24,969
beautiful examples of boxes that John

271
00:12:23,409 --> 00:12:27,490

would have taken around over here

272

00:12:24,970 --> 00:12:31,180

doctors boxes goodness me there's a sore

273

00:12:27,490 --> 00:12:33,190

there they owe lots of scissors and

274

00:12:31,179 --> 00:12:35,679

clamps and things like that Wow

275

00:12:33,190 --> 00:12:38,830

let's head on down let alone what a

276

00:12:35,679 --> 00:12:40,000

collection what a collection it's a pity

277

00:12:38,830 --> 00:12:43,180

they're sort of like the way they should

278

00:12:40,000 --> 00:12:45,970

oh hello hello I've never seen so many

279

00:12:43,179 --> 00:12:48,299

bottles of pills and potions in my life

280

00:12:45,970 --> 00:12:53,680

I think goodness me what do we have here

281

00:12:48,299 --> 00:12:56,109

so you're why this is our dispenser okay

282

00:12:53,679 --> 00:12:59,289

so this is where we're looking at all

283

00:12:56,110 --> 00:13:03,669

the wonderful glass bottles containers

284

00:12:59,289 --> 00:13:06,730

drugs suppository formers yield formers

285

00:13:03,669 --> 00:13:09,959

scales all the things that chemists use

286

00:13:06,730 --> 00:13:12,789

or sell or when they used to be

287

00:13:09,960 --> 00:13:16,660

apothecaries and they used it exactly

288

00:13:12,789 --> 00:13:19,389

and they used to grind up their own make

289

00:13:16,659 --> 00:13:21,969

up their own drugs I'll be oh my

290

00:13:19,389 --> 00:13:25,409

goodness such he'll be such a good story

291

00:13:21,970 --> 00:13:29,680

here Richard you are going to love it so

292

00:13:25,409 --> 00:13:33,370

biol beans was really popular i think it

293

00:13:29,679 --> 00:13:35,409

was in the 1950s i'm in the united

294

00:13:33,370 --> 00:13:39,610

kingdom and beyond and the story

295

00:13:35,409 --> 00:13:42,969

attached to it was that this scientist

296

00:13:39,610 --> 00:13:45,159

this Australian scientist looked around

297

00:13:42,970 --> 00:13:47,529

and noticed that Australian Aborigines

298

00:13:45,159 --> 00:13:50,370

never got sick ever and so he thought

299

00:13:47,529 --> 00:13:52,659

well I better find this secret and he

300
00:13:50,370 --> 00:13:55,389
communicated with Aboriginal tribes and

301
00:13:52,659 --> 00:13:57,730
they they told him their secret which

302
00:13:55,389 --> 00:13:59,799
was this one particular Australian plant

303
00:13:57,730 --> 00:14:03,100
that meant that they were free from all

304
00:13:59,799 --> 00:14:06,849
illness and he packaged that up into bio

305
00:14:03,100 --> 00:14:10,870
beans and so it was this cure all of

306
00:14:06,850 --> 00:14:14,110
course I'm got taken to court and was

307
00:14:10,870 --> 00:14:16,740
shown in the Supreme Court or the

308
00:14:14,110 --> 00:14:20,080
highest got in the land to be an

309
00:14:16,740 --> 00:14:21,789
absolute fraud this Australian

310
00:14:20,080 --> 00:14:23,889
scientists that he claimed of course

311
00:14:21,789 --> 00:14:26,679
didn't exist of course Australian

312
00:14:23,889 --> 00:14:29,169
Aborigines aren't illness free and have

313
00:14:26,679 --> 00:14:31,769
this amazing so it was just a beautiful

314

00:14:29,169 --> 00:14:34,128
example of complete pseudoscience

315
00:14:31,769 --> 00:14:36,239
when they were marketing a laxative film

316
00:14:34,129 --> 00:14:40,499
but it had a nice little Australian

317
00:14:36,239 --> 00:14:42,449
touch yes it's it's folks if you if you

318
00:14:40,499 --> 00:14:44,159
can picture in your mind something from

319
00:14:42,448 --> 00:14:47,099
your great-grandmother's cover there are

320
00:14:44,159 --> 00:14:49,048
lots of little bottles like i said

321
00:14:47,100 --> 00:14:50,850
before castor oil there's aspirin

322
00:14:49,048 --> 00:14:54,178
bottles it's something like out of the

323
00:14:50,850 --> 00:14:56,879
Wild West drugstore I guess you'd say

324
00:14:54,178 --> 00:15:01,048
it's fascinating and then we move on to

325
00:14:56,879 --> 00:15:03,869
the section where pharmacies started

326
00:15:01,048 --> 00:15:06,149
becoming more like a shopping what we'd

327
00:15:03,869 --> 00:15:08,879
know as a shopping center so it wasn't

328
00:15:06,149 --> 00:15:10,889

just your cast Royals and your actual

329

00:15:08,879 --> 00:15:13,048

drugs but they moved into selling nice

330

00:15:10,889 --> 00:15:17,938

soaps and ladies the lipstick and

331

00:15:13,048 --> 00:15:20,068

cosmetics this is one object that really

332

00:15:17,938 --> 00:15:23,669

interested me it's this beautiful

333

00:15:20,068 --> 00:15:25,198

ceramic lovely jar that says leeches on

334

00:15:23,669 --> 00:15:27,088

the outside once there's money in

335

00:15:25,198 --> 00:15:28,828

Lance's leeches yeah they're gorgeous

336

00:15:27,089 --> 00:15:30,720

something they're gorgeous but they're

337

00:15:28,828 --> 00:15:34,349

very ornate and they came from a

338

00:15:30,720 --> 00:15:35,610

pharmacy and I the only leeches I knew

339

00:15:34,350 --> 00:15:37,470

at the time when I started this

340

00:15:35,610 --> 00:15:39,389

exhibition were the ones when you go

341

00:15:37,470 --> 00:15:43,319

bushwalking and they attach to your leg

342

00:15:39,389 --> 00:15:47,850

I was like why why would anybody store

343
00:15:43,318 --> 00:15:49,618
leeches in that container and so I

344
00:15:47,850 --> 00:15:51,360
called the Australian Museum chatted to

345
00:15:49,619 --> 00:15:52,860
some leech experts over there and I

346
00:15:51,360 --> 00:15:54,778
don't know that there are two types of

347
00:15:52,860 --> 00:15:55,889
leeches there are the terrestrial

348
00:15:54,778 --> 00:15:57,568
leeches that you get when you're

349
00:15:55,889 --> 00:16:01,379
bushwalking and then there are aquatic

350
00:15:57,568 --> 00:16:04,909
leeches and aquatic ledger so both of

351
00:16:01,379 --> 00:16:07,889
them have been in fads that come and go

352
00:16:04,909 --> 00:16:09,990
about bleeding about all sorts of things

353
00:16:07,889 --> 00:16:13,860
leeches have been used for thousands of

354
00:16:09,990 --> 00:16:15,899
years with either evidence or no

355
00:16:13,860 --> 00:16:21,649
evidence so that over time they've been

356
00:16:15,899 --> 00:16:24,509
used to treat obesity mental illness

357
00:16:21,649 --> 00:16:27,028
balancing the humors all of that

358
00:16:24,509 --> 00:16:28,470
complete bump curse of course but

359
00:16:27,028 --> 00:16:32,639
they're actually still used in health

360
00:16:28,470 --> 00:16:35,249
and medicine today yeah yeah so mostly

361
00:16:32,639 --> 00:16:38,399
for microsurgery so if you lose a finger

362
00:16:35,249 --> 00:16:40,470
or a nose when they reattach it

363
00:16:38,399 --> 00:16:42,509
sometimes there can be small pools of

364
00:16:40,470 --> 00:16:45,689
blood that gather just underneath that

365
00:16:42,509 --> 00:16:47,159
join and the best way to clear it out so

366
00:16:45,688 --> 00:16:49,409
that you're not going to cut your so you

367
00:16:47,159 --> 00:16:51,480
cause the least amount of damage to the

368
00:16:49,409 --> 00:16:54,749
muscle and the area around that is to

369
00:16:51,480 --> 00:16:57,089
pop a leech on and they suck up the

370
00:16:54,749 --> 00:16:59,909
blood they stimulate arterial growth

371

00:16:57,089 --> 00:17:04,649
back into the region there excellent and

372
00:16:59,909 --> 00:17:06,928
so I somewhat stupidly talked the museum

373
00:17:04,648 --> 00:17:09,599
into allowing us to have live lectures

374
00:17:06,929 --> 00:17:13,740
which are also in the exhibition wait

375
00:17:09,599 --> 00:17:19,818
and my stupid idea means that I have to

376
00:17:13,740 --> 00:17:19,818
feed them we get into that you oh

377
00:17:20,470 --> 00:17:24,439
coming up after the break we wander a

378
00:17:22,849 --> 00:17:26,719
little bit further around this

379
00:17:24,439 --> 00:17:29,150
fascinating exhibition with that Chilean

380
00:17:26,720 --> 00:17:35,210
Frankie we come across some quackery and

381
00:17:29,150 --> 00:17:41,320
discover some live leeches on Manor

382
00:17:35,210 --> 00:17:41,319
calmed are you it's gone

383
00:17:41,490 --> 00:17:46,250
episode 21 with Tim Ferguson

384
00:17:53,230 --> 00:17:59,620
ring the bell do the thing pull it on

385
00:17:55,869 --> 00:18:02,409

and make the noise it goes so 21 show 21

386

00:17:59,619 --> 00:18:04,959

with the Tim's delicate condition you

387

00:18:02,410 --> 00:18:06,460

have two enemies late nights and heat is

388

00:18:04,960 --> 00:18:08,500

that correct that's right a hot late

389

00:18:06,460 --> 00:18:11,048

night forget it is that because it makes

390

00:18:08,500 --> 00:18:13,298

the brain go fast during the EMS doesn't

391

00:18:11,048 --> 00:18:15,849

like that what is it well what happens I

392

00:18:13,298 --> 00:18:19,418

asked a neurologist and she said what

393

00:18:15,849 --> 00:18:22,509

happens is like anything a brain expands

394

00:18:19,419 --> 00:18:24,280

in heat as well and nerves expand in

395

00:18:22,509 --> 00:18:27,250

heat so what happens is your nerves

396

00:18:24,279 --> 00:18:29,200

actually get bigger not huge of course

397

00:18:27,250 --> 00:18:31,450

but just that little difference when

398

00:18:29,200 --> 00:18:33,460

you're dealing with nerves as stupid as

399

00:18:31,450 --> 00:18:35,860

my nerves well it's like dealing with

400
00:18:33,460 --> 00:18:37,569
people from North Queensland and hello

401
00:18:35,859 --> 00:18:42,879
to all those listeners hell are those

402
00:18:37,569 --> 00:18:48,189
fans but you know what i'm talking about

403
00:18:42,880 --> 00:19:10,150
bunga bunga or as we like to say on may

404
00:18:48,190 --> 00:19:11,380
not condone are you hey you now silly

405
00:19:10,150 --> 00:19:13,679
this looks like something out of World

406
00:19:11,380 --> 00:19:15,610
War two what's going on here this

407
00:19:13,679 --> 00:19:18,400
precious little thing is called the

408
00:19:15,609 --> 00:19:20,769
store pedo edge it was developed in the

409
00:19:18,400 --> 00:19:23,100
1950s here in Australia by the

410
00:19:20,769 --> 00:19:25,750
Australian Red Cross blood service and

411
00:19:23,099 --> 00:19:28,659
Reverend John Flynn was involved as well

412
00:19:25,750 --> 00:19:31,089
who created the Australian flying

413
00:19:28,660 --> 00:19:33,429
doctors and what they were trying to

414
00:19:31,089 --> 00:19:36,750
address is that it's really hard in

415
00:19:33,429 --> 00:19:40,059
Australia because it's such a massive

416
00:19:36,750 --> 00:19:42,069
continent that it's hard to get medical

417
00:19:40,058 --> 00:19:45,668
supplies to people who are living

418
00:19:42,069 --> 00:19:47,589
remotely or orally in Australia and so

419
00:19:45,669 --> 00:19:50,919
this is the little sucker that they came

420
00:19:47,589 --> 00:19:54,089
up with to address that problem so this

421
00:19:50,919 --> 00:19:56,520
it looks like a bomb yeah with a parent

422
00:19:54,089 --> 00:19:59,490
yes so they designed it exactly like

423
00:19:56,519 --> 00:20:03,869
that it's got a conical knows it's about

424
00:19:59,490 --> 00:20:06,150
two foot long and about 15 20

425
00:20:03,869 --> 00:20:08,819
centimeters in diameter it's made out of

426
00:20:06,150 --> 00:20:11,370
cardboard Richard so you open up the top

427
00:20:08,819 --> 00:20:13,829
and you get two glass one liter jars of

428

00:20:11,369 --> 00:20:15,899
blood or plasma and you wrap them in a

429
00:20:13,829 --> 00:20:18,028
blanket and you pop them in there with a

430
00:20:15,900 --> 00:20:20,610
diffusion kit and then you chuck them

431
00:20:18,028 --> 00:20:25,140
out of a plane and what they like and I

432
00:20:20,609 --> 00:20:27,298
I say that by but the ability to just

433
00:20:25,140 --> 00:20:28,740
chuck them out of a plane was really

434
00:20:27,298 --> 00:20:30,839
important to them because they didn't

435
00:20:28,740 --> 00:20:33,778
want it to just be tied to military or

436
00:20:30,839 --> 00:20:36,148
people with special skills who knew how

437
00:20:33,778 --> 00:20:38,849
to chuck things out of a plane correctly

438
00:20:36,148 --> 00:20:41,308
this this torpedo it can be given to

439
00:20:38,849 --> 00:20:42,928
someone who's a hobby pilot on to

440
00:20:41,308 --> 00:20:46,109
someone who's a farmer and has an a

441
00:20:42,929 --> 00:20:48,360
plane for irrigation to anyone it really

442
00:20:46,109 --> 00:20:50,129

meant that the we could get medical

443

00:20:48,359 --> 00:20:53,219
supplies out quickly and without

444

00:20:50,130 --> 00:20:55,740
specialist training to people in really

445

00:20:53,220 --> 00:20:59,009
remote areas of Australia it's an

446

00:20:55,740 --> 00:21:02,069
awesome innovation in medical instrument

447

00:20:59,009 --> 00:21:03,929
making right I will walk down a little

448

00:21:02,069 --> 00:21:06,898
bit further now passed some skeletons

449

00:21:03,929 --> 00:21:09,659
and some more giant eyeballs and giant

450

00:21:06,898 --> 00:21:11,189
ears and not well sorts of things and on

451

00:21:09,659 --> 00:21:14,520
the other side of the room here

452

00:21:11,190 --> 00:21:16,798
something of very very particular

453

00:21:14,519 --> 00:21:20,119
interest to myself and skeptics unless

454

00:21:16,798 --> 00:21:22,079
I'm sure we have an actual iron lung

455

00:21:20,119 --> 00:21:26,278
yeah well actually this is the

456

00:21:22,079 --> 00:21:28,918
Australian iron lung which is even

457
00:21:26,278 --> 00:21:32,159
cooler than the actual iron lung so and

458
00:21:28,919 --> 00:21:35,520
the island was invented and developed in

459
00:21:32,159 --> 00:21:39,450
America but it truly was it lived up to

460
00:21:35,519 --> 00:21:42,298
its name it was huge it was heavy it it

461
00:21:39,450 --> 00:21:44,159
took up entire wings like large spaces

462
00:21:42,298 --> 00:21:45,929
in hospitals and could only be on the

463
00:21:44,159 --> 00:21:48,120
bottom floor because it was so heavy

464
00:21:45,929 --> 00:21:50,940
right and that meant that that part of

465
00:21:48,119 --> 00:21:54,569
the hospital was your iron lung in

466
00:21:50,940 --> 00:21:57,419
perpetuity these brothers Australian

467
00:21:54,569 --> 00:21:59,460
brothers in south australia they were

468
00:21:57,419 --> 00:22:00,360
medical instrument makers the Baath

469
00:21:59,460 --> 00:22:04,710
brothers

470
00:22:00,359 --> 00:22:06,539
um and they looked at the design and

471
00:22:04,710 --> 00:22:09,808
went yeah that's great we understand

472
00:22:06,539 --> 00:22:11,579
what it's doing but I think we can do a

473
00:22:09,808 --> 00:22:14,039
better job and they built it out of

474
00:22:11,579 --> 00:22:17,009
lightweight wood and put it on wheels

475
00:22:14,039 --> 00:22:20,879
and made the world's first portable

476
00:22:17,009 --> 00:22:23,400
respirator so the Australian iron lung

477
00:22:20,880 --> 00:22:24,929
the then took off worldwide and because

478
00:22:23,400 --> 00:22:27,720
it is on wheels it's got a little wheel

479
00:22:24,929 --> 00:22:30,809
platform here it's not as big as you'd

480
00:22:27,720 --> 00:22:34,079
think of an iron lung and hanging off

481
00:22:30,808 --> 00:22:36,389
the end here we've got what looks like a

482
00:22:34,079 --> 00:22:39,539
giant pair of bellows which it would be

483
00:22:36,390 --> 00:22:41,580
the year the breathing intake that's

484
00:22:39,539 --> 00:22:44,369
right so that creates the vacuum in

485

00:22:41,579 --> 00:22:47,460
inside the cabinet itself because yeah

486
00:22:44,369 --> 00:22:49,769
so they invented this in the 1930s in

487
00:22:47,460 --> 00:22:52,620
Adelaide when Australia had an outbreak

488
00:22:49,769 --> 00:22:55,918
of polio and one of the things polio can

489
00:22:52,619 --> 00:22:57,989
do is that it paralyzes your muscles and

490
00:22:55,919 --> 00:23:01,049
if it paralyzes your respiratory muscles

491
00:22:57,990 --> 00:23:02,880
you can't breathe so people get inside

492
00:23:01,048 --> 00:23:05,160
this the only thing popping out of the

493
00:23:02,880 --> 00:23:08,820
wooden box is their head and then the

494
00:23:05,160 --> 00:23:11,610
bellows creates the vacuum inside the

495
00:23:08,819 --> 00:23:14,189
wooden box that pulls your chest up and

496
00:23:11,609 --> 00:23:16,529
down for you so it's amazing isn't it it

497
00:23:14,190 --> 00:23:18,029
is it takes place and to see one here

498
00:23:16,529 --> 00:23:20,579
and to know that that's what was

499
00:23:18,029 --> 00:23:22,410

happening inside poor people lying there

500

00:23:20,579 --> 00:23:24,029

and their chest was being expanded and

501

00:23:22,410 --> 00:23:27,298

contracted because of the vacuum inside

502

00:23:24,029 --> 00:23:29,639

and what and I've mentioned this on the

503

00:23:27,298 --> 00:23:31,829

skeptics done before but it's one of the

504

00:23:29,640 --> 00:23:34,500

things that's very sobering but to see

505

00:23:31,829 --> 00:23:37,798

one you have to go to a museum and

506

00:23:34,500 --> 00:23:40,619

that's so important to remember yeah it

507

00:23:37,798 --> 00:23:42,660

is and this is a stir again Australian

508

00:23:40,619 --> 00:23:44,279

innovation that transformed people's

509

00:23:42,660 --> 00:23:46,080

lives because you didn't recover from

510

00:23:44,279 --> 00:23:48,418

this very quickly some people spent

511

00:23:46,079 --> 00:23:51,720

months years the rest of their lives

512

00:23:48,419 --> 00:23:53,640

these wheels the lightweight box meant

513

00:23:51,720 --> 00:23:56,069

that they could go home or they could be

514
00:23:53,640 --> 00:23:58,160
wheeled out into the Sun but lots of

515
00:23:56,069 --> 00:24:00,220
people lived for years in these things

516
00:23:58,160 --> 00:24:02,890
staggering to think yeah

517
00:24:00,220 --> 00:24:04,210
oh and I'm so pleased that it's part of

518
00:24:02,890 --> 00:24:05,710
the exhibition now we'll just keep

519
00:24:04,210 --> 00:24:07,450
walking down lots of kids running around

520
00:24:05,710 --> 00:24:09,730
here which is really good to see we're

521
00:24:07,450 --> 00:24:12,009
passing some microscopes Oh what wow

522
00:24:09,730 --> 00:24:14,519
what a splendid selection of

523
00:24:12,009 --> 00:24:16,720
classic-looking microscopes telly that's

524
00:24:14,519 --> 00:24:18,220
there's something that I'm sort of

525
00:24:16,720 --> 00:24:19,990
remember from high school but the

526
00:24:18,220 --> 00:24:22,870
brilliant old ones like you seeing me

527
00:24:19,990 --> 00:24:24,339
all the classic paintings of early

528
00:24:22,869 --> 00:24:26,829
scientists and things like that wow what

529
00:24:24,339 --> 00:24:28,658
a collection this looks like next to it

530
00:24:26,829 --> 00:24:30,519
looks like a leg caliper yeah that's

531
00:24:28,659 --> 00:24:32,530
exactly what it is so we all your yeah

532
00:24:30,519 --> 00:24:34,298
so we've got an older leg caliper for a

533
00:24:32,529 --> 00:24:37,869
child and then when you look up above it

534
00:24:34,298 --> 00:24:42,490
you see prosthetics as they're made

535
00:24:37,869 --> 00:24:45,038
today for people who want to get a yeah

536
00:24:42,490 --> 00:24:48,429
much simplified and also less

537
00:24:45,038 --> 00:24:52,808
restrictive yeah passing a collection of

538
00:24:48,429 --> 00:24:54,220
Temple stick what a set of choppers look

539
00:24:52,808 --> 00:24:58,269
at that false teeth everywhere it's

540
00:24:54,220 --> 00:25:00,429
better that's over here are two that

541
00:24:58,269 --> 00:25:02,710
were designed for one purpose and then

542

00:25:00,429 --> 00:25:05,380
used for another ash grinder it says

543
00:25:02,710 --> 00:25:08,500
your old faithful now we didn't write

544
00:25:05,380 --> 00:25:12,100
Old Faithful on it the butt so this

545
00:25:08,500 --> 00:25:15,730
machine you was made and designed to

546
00:25:12,099 --> 00:25:18,908
grind coffee beans right then it was

547
00:25:15,730 --> 00:25:21,730
purchased by crematorium because what

548
00:25:18,909 --> 00:25:26,409
they found was that when they burnt

549
00:25:21,730 --> 00:25:29,620
someone when they cremated someone the

550
00:25:26,409 --> 00:25:31,929
human body has you know simony chocolate

551
00:25:29,619 --> 00:25:34,149
yeah and and so it didn't all end up

552
00:25:31,929 --> 00:25:36,100
into a fine powder so they were handing

553
00:25:34,150 --> 00:25:38,380
back earns to people that sometimes

554
00:25:36,099 --> 00:25:40,240
rattled with a little bit of bone still

555
00:25:38,380 --> 00:25:41,230
remaining and that's not a great

556
00:25:40,240 --> 00:25:43,870

experience

557

00:25:41,230 --> 00:25:46,599

laughs it's not a good strength for

558

00:25:43,869 --> 00:25:49,479

their family so they made it a policy

559

00:25:46,599 --> 00:25:51,099

that after being cremated people's

560

00:25:49,480 --> 00:25:53,589

remains were put through here so that

561

00:25:51,099 --> 00:25:55,389

they were consistent so that they made

562

00:25:53,589 --> 00:25:59,289

sure that it came out as a fine powder

563

00:25:55,390 --> 00:26:02,410

for people to take home in an urn so

564

00:25:59,289 --> 00:26:05,168

that's you know one transformative

565

00:26:02,410 --> 00:26:08,290

design the next one is one of my

566

00:26:05,169 --> 00:26:11,380

favorites oh goodness me folks we're

567

00:26:08,289 --> 00:26:15,428

looking at a celeb and beautiful

568

00:26:11,380 --> 00:26:18,360

beautiful ceramic mortuary table good so

569

00:26:15,429 --> 00:26:21,309

heavens with little dreams here for the

570

00:26:18,359 --> 00:26:24,189

thule fluids you I'm so on the top of

571
00:26:21,308 --> 00:26:27,548
the slab it's just it has that has these

572
00:26:24,190 --> 00:26:30,970
beautiful runnels so there's beautiful

573
00:26:27,548 --> 00:26:33,789
ways of and it's on a very slight feels

574
00:26:30,970 --> 00:26:35,650
like Art Deco it does it's I think it's

575
00:26:33,789 --> 00:26:38,710
such a beautiful object and then it has

576
00:26:35,650 --> 00:26:43,570
this drum a basin at the bottom all made

577
00:26:38,710 --> 00:26:45,419
out of white ceramic perfect so it all

578
00:26:43,569 --> 00:26:49,409
the small hospitals used to do their own

579
00:26:45,419 --> 00:26:52,120
autopsies and then in the 1950s we

580
00:26:49,410 --> 00:26:56,769
centralized all the autopsies into one

581
00:26:52,119 --> 00:26:58,509
place a coroner's so all of the

582
00:26:56,769 --> 00:27:00,639
hospitals started smashing up they

583
00:26:58,509 --> 00:27:02,319
didn't need these ceramic tables anymore

584
00:27:00,640 --> 00:27:04,419
the mortuary tables they were doing

585
00:27:02,319 --> 00:27:07,149
autopsies so they just started disposing

586
00:27:04,419 --> 00:27:11,350
of them this one nurse begged them not

587
00:27:07,150 --> 00:27:13,509
to smash this particular ceramic table

588
00:27:11,349 --> 00:27:17,529
up and they dropped it at her house and

589
00:27:13,509 --> 00:27:20,109
she used it for the next 40 years as a

590
00:27:17,529 --> 00:27:22,720
potting bench because they look at it

591
00:27:20,109 --> 00:27:24,759
yes I can understand that right there's

592
00:27:22,720 --> 00:27:26,919
got drainage it's got it absolutely it's

593
00:27:24,759 --> 00:27:29,529
a good drainage it does it doesn't get

594
00:27:26,919 --> 00:27:33,009
affected by the environmental elements

595
00:27:29,529 --> 00:27:35,200
it's at the right height it's a

596
00:27:33,009 --> 00:27:37,359
beautiful objects to have in your

597
00:27:35,200 --> 00:27:39,029
backyard it's stunning you could have it

598
00:27:37,359 --> 00:27:41,519
as a bar couldn't you

599

00:27:39,029 --> 00:27:45,480
I could see much sitting up sitting

600
00:27:41,519 --> 00:27:47,309
about to have a few drinks I think you

601
00:27:45,480 --> 00:27:49,410
just created a new event all right

602
00:27:47,309 --> 00:27:51,659
things you have here my good is it all

603
00:27:49,410 --> 00:27:53,040
right we'll come passing so many think

604
00:27:51,660 --> 00:27:54,660
we can't talk about everything here but

605
00:27:53,039 --> 00:27:56,579
there are so many things here folks it

606
00:27:54,660 --> 00:27:59,040
just goes on and on and on lots of

607
00:27:56,579 --> 00:28:03,210
bizarre-looking medical equipment and

608
00:27:59,039 --> 00:28:05,970
little packages of things and it's a

609
00:28:03,210 --> 00:28:09,690
doll inner know what being led down here

610
00:28:05,970 --> 00:28:11,789
or no well what do we have here so we

611
00:28:09,690 --> 00:28:14,730
have one area of this exhibition which

612
00:28:11,789 --> 00:28:18,470
is called question it and it is our case

613
00:28:14,730 --> 00:28:22,380

of historical and contemporary

614

00:28:18,470 --> 00:28:24,450

pseudoscience goodness me so things that

615

00:28:22,380 --> 00:28:26,820

try to use the language of science but

616

00:28:24,450 --> 00:28:28,980

have no evidence or make outrageous

617

00:28:26,819 --> 00:28:31,950

claims that can't be tested or when

618

00:28:28,980 --> 00:28:34,710

tested are shown to be absolutely false

619

00:28:31,950 --> 00:28:38,100

this is our way of tipping our hat to

620

00:28:34,710 --> 00:28:40,740

what we've had in the collection yeah

621

00:28:38,099 --> 00:28:42,779

from a long time ago roughly being used

622

00:28:40,740 --> 00:28:45,720

a look at some of these we start with

623

00:28:42,779 --> 00:28:47,819

the copper bracelet for rheumatism and

624

00:28:45,720 --> 00:28:49,769

all that sort of stuff which is still

625

00:28:47,819 --> 00:28:51,869

sold in some killer shops today I've

626

00:28:49,769 --> 00:28:54,230

been doing a lot of this is still sold

627

00:28:51,869 --> 00:28:57,689

in chemist shops one of our most recent

628
00:28:54,230 --> 00:29:00,089
examples is the amber necklace Abba

629
00:28:57,690 --> 00:29:03,509
teething necklace which I've done the

630
00:29:00,089 --> 00:29:06,449
label that says it defines it as used

631
00:29:03,509 --> 00:29:11,700
for placebo effect in parents during

632
00:29:06,450 --> 00:29:15,539
toddler teething which we've had some one

633
00:29:11,700 --> 00:29:17,549
photograph and tweet about saying what

634
00:29:15,539 --> 00:29:20,970
was it I think the tweeter said that it

635
00:29:17,549 --> 00:29:22,710
was pleasantly blunt now I must say I'm

636
00:29:20,970 --> 00:29:24,150
quite chuffed tilly i am quite job

637
00:29:22,710 --> 00:29:26,039
because if i look a little bit further

638
00:29:24,150 --> 00:29:29,040
in the cabinet i can see something that

639
00:29:26,039 --> 00:29:31,440
i actually purchased myself that's a few

640
00:29:29,039 --> 00:29:34,409
years back we have the ion energy band

641
00:29:31,440 --> 00:29:36,330
and here it is it a museum I love it I

642
00:29:34,410 --> 00:29:38,100
love it but next to it is a power

643
00:29:36,329 --> 00:29:40,439
balance band too which is really good to

644
00:29:38,099 --> 00:29:45,199
see ya I just think that it's really

645
00:29:40,440 --> 00:29:49,259
important for us to document these

646
00:29:45,200 --> 00:29:51,750
incredibly questionable yeah well just

647
00:29:49,259 --> 00:29:53,789
but also you know the loads of people

648
00:29:51,750 --> 00:29:55,950
got involved in this it was a big

649
00:29:53,789 --> 00:29:57,960
feature huge and I think that that's

650
00:29:55,950 --> 00:29:59,880
important for us to keep out he's really

651
00:29:57,960 --> 00:30:01,380
gonna remember that yeah and I love the

652
00:29:59,880 --> 00:30:03,360
fact that you've got too many candles in

653
00:30:01,380 --> 00:30:06,060
the back oh they are one of my personal

654
00:30:03,359 --> 00:30:07,889
favorite hated things they're amazing

655
00:30:06,059 --> 00:30:10,109
and homeopathy I'm absolutely delighted

656

00:30:07,890 --> 00:30:12,090
folks in fact I'm we might even in

657
00:30:10,109 --> 00:30:13,979
crystal ball and a Christian just a

658
00:30:12,089 --> 00:30:15,689
puppet that's a beautiful crystal ball

659
00:30:13,980 --> 00:30:18,150
we might get a snap of this for the

660
00:30:15,690 --> 00:30:20,370
archive to misfit allowed display Oh in

661
00:30:18,150 --> 00:30:21,720
Oregon's Round the other side we can go

662
00:30:20,369 --> 00:30:23,369
and have a look at them let's have a

663
00:30:21,720 --> 00:30:26,220
look at the office so it's not a word

664
00:30:23,369 --> 00:30:28,319
now there's a transparent human at the

665
00:30:26,220 --> 00:30:31,559
end but will get will she's not looking

666
00:30:28,319 --> 00:30:33,559
too well I can see right through a body

667
00:30:31,559 --> 00:30:35,730
being all right through a 70 year old

668
00:30:33,559 --> 00:30:38,039
seriously it's everything wow that's

669
00:30:35,730 --> 00:30:39,630
impressive and we just come round the

670
00:30:38,039 --> 00:30:41,670

other side there's all sorts of pills

671

00:30:39,630 --> 00:30:45,720
here on display other interesting

672

00:30:41,670 --> 00:30:48,690
medical devices ora ora goggles or a

673

00:30:45,720 --> 00:30:51,059
research kid good heavens yeah from the

674

00:30:48,690 --> 00:30:53,670
metaphysical research group in the

675

00:30:51,059 --> 00:30:57,149
United Kingdom and they come with lovely

676

00:30:53,670 --> 00:30:59,160
goggles that look like oh I can see them

677

00:30:57,150 --> 00:31:01,350
they look just like old-fashioned world

678

00:30:59,160 --> 00:31:04,460
war one pilot goggles that's right or a

679

00:31:01,349 --> 00:31:07,799
gobble oh my and then you slot in

680

00:31:04,460 --> 00:31:10,470
basically colored cellophane yes so that

681

00:31:07,799 --> 00:31:13,230
it helps you to distill people's color

682

00:31:10,470 --> 00:31:15,150
or arm but that's why they vent their

683

00:31:13,230 --> 00:31:17,579
place right here in the really and it

684

00:31:15,150 --> 00:31:18,660
also got a phrenology head here which is

685
00:31:17,579 --> 00:31:21,720
a classic thing I've seen that many

686
00:31:18,660 --> 00:31:23,370
times and what's this fascinating box

687
00:31:21,720 --> 00:31:25,650
here's all sorts of little instruments

688
00:31:23,369 --> 00:31:27,599
in silences yeah it in very much goes

689
00:31:25,650 --> 00:31:31,200
with their phrenology it's

690
00:31:27,599 --> 00:31:33,089
cranium it up so these I see it fits

691
00:31:31,200 --> 00:31:35,100
around the hair and then it measures all

692
00:31:33,089 --> 00:31:37,079
of your bumps and yeah and then we'll

693
00:31:35,099 --> 00:31:40,829
know whether or not you're a criminal of

694
00:31:37,079 --> 00:31:42,449
course I folks it's worth it to come

695
00:31:40,829 --> 00:31:44,730
here and look at this one counter here

696
00:31:42,450 --> 00:31:47,788
which has the quackery and so on it's

697
00:31:44,730 --> 00:31:49,349
it's so so interesting so interesting I

698
00:31:47,788 --> 00:31:50,759
think we've got time for a few more

699
00:31:49,349 --> 00:31:55,079
things will just walk down the other

700
00:31:50,759 --> 00:31:58,710
side here again passing passing wooden

701
00:31:55,079 --> 00:32:01,788
legs and put in here wooden teeth and

702
00:31:58,710 --> 00:32:04,650
all plastic teeth lots lots of teeth ah

703
00:32:01,788 --> 00:32:07,379
but boy I don't have a look at this with

704
00:32:04,650 --> 00:32:10,530
well that is creepy we have a little

705
00:32:07,380 --> 00:32:12,900
display box here full of eyes or peeping

706
00:32:10,529 --> 00:32:15,200
out at us that's right I think which

707
00:32:12,900 --> 00:32:18,030
ones like mine the top right are these

708
00:32:15,200 --> 00:32:19,919
that's pretty that's nightmare stuff

709
00:32:18,029 --> 00:32:22,200
that is no that's the leeches are just

710
00:32:19,919 --> 00:32:24,780
over to your right oh we got to wear

711
00:32:22,200 --> 00:32:27,779
let's have a look after you walking over

712
00:32:24,779 --> 00:32:31,200
now pastor Skelton mind oh hello we've

713

00:32:27,779 --> 00:32:34,349
got a little tank here and it's a leech

714
00:32:31,200 --> 00:32:37,470
tank just at the back in between the

715
00:32:34,349 --> 00:32:39,058
black and the plans I just straining now

716
00:32:37,470 --> 00:32:40,700
to see with these leeches are there a

717
00:32:39,058 --> 00:32:44,339
little bit hard to see because they are

718
00:32:40,700 --> 00:32:46,880
they are hidden away in black stripe ian

719
00:32:44,339 --> 00:32:46,879
black leech

720
00:32:48,429 --> 00:32:54,830
hiding in the corner there and how often

721
00:32:51,380 --> 00:32:56,600
are they said well they don't have to

722
00:32:54,829 --> 00:32:59,710
only have to be fed once a year

723
00:32:56,599 --> 00:33:02,389
technically but because they're

724
00:32:59,710 --> 00:33:04,850
predators I didn't think that that was

725
00:33:02,390 --> 00:33:06,470
fair because they're creatures in our

726
00:33:04,849 --> 00:33:09,528
care and they haven't got anything to

727
00:33:06,470 --> 00:33:13,579

hunt or to prey on until I was planning

728

00:33:09,528 --> 00:33:17,148

to feed them once a month after the

729

00:33:13,579 --> 00:33:19,908

first time I fed them on me on my hands

730

00:33:17,148 --> 00:33:22,879

I decided maybe once every three months

731

00:33:19,909 --> 00:33:26,360

we'd be all right and then after the

732

00:33:22,880 --> 00:33:30,380

second time I fed them which by the way

733

00:33:26,359 --> 00:33:32,689

it turns out leeches have variable

734

00:33:30,380 --> 00:33:34,850

skills some of them are really good at

735

00:33:32,690 --> 00:33:37,308

feeding they do it quickly cleanly

736

00:33:34,849 --> 00:33:40,819

efficiently like recipes really yes and

737

00:33:37,308 --> 00:33:44,298

suffer them and not so great but they

738

00:33:40,819 --> 00:33:45,980

let it they've got three jaws that the

739

00:33:44,298 --> 00:33:51,639

the bite mark that they leave on you is

740

00:33:45,980 --> 00:33:54,110

a perfect capital y and it is very and

741

00:33:51,640 --> 00:33:59,960

so it's the three draws coming together

742
00:33:54,109 --> 00:34:01,158
it's very clean it's it doesn't itch

743
00:33:59,960 --> 00:34:04,669
because the wonderful thing about

744
00:34:01,159 --> 00:34:07,880
aquatic creatures is that they have they

745
00:34:04,669 --> 00:34:08,838
use different the completely different

746
00:34:07,880 --> 00:34:10,849
to ones that you get when you're

747
00:34:08,838 --> 00:34:15,619
bushwalking so they do not each at all

748
00:34:10,849 --> 00:34:17,780
um and it only hurts while they are

749
00:34:15,619 --> 00:34:19,579
attaching while they're ramming those

750
00:34:17,780 --> 00:34:22,369
three drawers through your flesh as

751
00:34:19,579 --> 00:34:23,809
you're looking at them is the only time

752
00:34:22,369 --> 00:34:26,030
that it hurts but it's just like little

753
00:34:23,809 --> 00:34:29,690
needles you don't want to volunteer to

754
00:34:26,030 --> 00:34:33,139
be the blood giver Frankie Daniela I can

755
00:34:29,690 --> 00:34:35,000
understand we're passing a lots of

756
00:34:33,139 --> 00:34:35,980
skeleton see lots of displays of bones

757
00:34:35,000 --> 00:34:38,898
and

758
00:34:35,980 --> 00:34:41,260
it's a very bizarre baby in a womb here

759
00:34:38,898 --> 00:34:46,098
but it looks like it was done by a

760
00:34:41,260 --> 00:34:48,409
ten-year-old it's very bizarre it's

761
00:34:46,099 --> 00:34:51,079
called the obstetric phantom so it is

762
00:34:48,409 --> 00:34:53,659
what was used to train male doctors

763
00:34:51,079 --> 00:34:56,419
about how to deliver babies without

764
00:34:53,659 --> 00:34:59,030
needing to have that inconvenient thing

765
00:34:56,418 --> 00:35:00,858
of a woman in the room and we're not

766
00:34:59,030 --> 00:35:02,359
looking at the business end of it no

767
00:35:00,858 --> 00:35:03,920
we're not no we're looking from the top

768
00:35:02,358 --> 00:35:07,759
I must say it's like a cross section

769
00:35:03,920 --> 00:35:09,858
lots of models of internal bits of humor

770

00:35:07,760 --> 00:35:12,950
got the ear canal done lovely there's a

771
00:35:09,858 --> 00:35:15,108
heart just back there coming around here

772
00:35:12,949 --> 00:35:18,078
more kids coming through which is good

773
00:35:15,108 --> 00:35:20,900
to see hello hello origami oh yeah you

774
00:35:18,079 --> 00:35:24,170
should have told me oh I can't believe

775
00:35:20,900 --> 00:35:26,480
that I didn't yes this is origami of a

776
00:35:24,170 --> 00:35:29,088
heart that's a no regarding gummy of the

777
00:35:26,480 --> 00:35:30,710
skull who's mad at home I'll have to

778
00:35:29,088 --> 00:35:32,119
come back and make some that's really

779
00:35:30,710 --> 00:35:33,619
cool and the kid there are kids right

780
00:35:32,119 --> 00:35:35,990
now as we speak sitting at the table

781
00:35:33,619 --> 00:35:38,660
making origami hearts and skulls that is

782
00:35:35,989 --> 00:35:40,578
very cool indeed and we're coming right

783
00:35:38,659 --> 00:35:42,139
down to the other end of the the

784
00:35:40,579 --> 00:35:44,119

exhibition now on the other side to

785

00:35:42,139 --> 00:35:47,118

where we were before lots of boxes and

786

00:35:44,119 --> 00:35:48,619

hinkson the 30s I'm sure my mum would

787

00:35:47,119 --> 00:35:50,358

would look at this cabinet and say oh

788

00:35:48,619 --> 00:35:53,000

yes I remember all this sort of stuff

789

00:35:50,358 --> 00:35:54,259

there's lots of soap here ya and I must

790

00:35:53,000 --> 00:35:56,389

say I'm quite surprised because it

791

00:35:54,260 --> 00:35:58,400

you've got lots of varieties very old

792

00:35:56,389 --> 00:36:00,409

soaps from the 20s 30s 40s maybe it

793

00:35:58,400 --> 00:36:03,079

looks like it's all unused yeah

794

00:36:00,409 --> 00:36:05,929

absolutely that's generally what museums

795

00:36:03,079 --> 00:36:08,028

do we do our best to keep examples of

796

00:36:05,929 --> 00:36:11,838

things in their whole form as well as a

797

00:36:08,028 --> 00:36:14,568

lot of these are just the boxes so not

798

00:36:11,838 --> 00:36:16,400

they're hopeful yep goanna royal I you

799

00:36:14,568 --> 00:36:19,579

must get people coming here the older

800

00:36:16,400 --> 00:36:21,048

generation and just remembering lots of

801

00:36:19,579 --> 00:36:24,230

things that you have on display unit

802

00:36:21,048 --> 00:36:26,538

absolutely not only in this dispense it

803

00:36:24,230 --> 00:36:28,730

about chemists but one section we didn't

804

00:36:26,539 --> 00:36:31,039

get to talk about was contraception

805

00:36:28,730 --> 00:36:32,510

we've got all these pills and a lot of

806

00:36:31,039 --> 00:36:34,579

the time we have women standing there

807

00:36:32,510 --> 00:36:37,099

going oh I used to check that one oh and

808

00:36:34,579 --> 00:36:39,859

I still know 10 Diane yep that's been

809

00:36:37,099 --> 00:36:41,660

it's so that's lovely as well

810

00:36:39,858 --> 00:36:44,420

so all different generations have things

811

00:36:41,659 --> 00:36:47,568

to remember in terms of perimeter now

812

00:36:44,420 --> 00:36:49,730

what nearly at the end now we've risked

813
00:36:47,568 --> 00:36:51,619
a lot here because we can't possibly see

814
00:36:49,730 --> 00:36:53,929
everything as far too much to see lots

815
00:36:51,619 --> 00:36:56,509
of more on potions and pills here but

816
00:36:53,929 --> 00:37:00,078
down the bottom we've got these nine

817
00:36:56,509 --> 00:37:01,759
amazingly big blue bottles and they look

818
00:37:00,079 --> 00:37:03,890
like something out of a movie profits I

819
00:37:01,759 --> 00:37:06,949
don't know we're just spending over to

820
00:37:03,889 --> 00:37:09,230
sit there yes that they were used by

821
00:37:06,949 --> 00:37:12,679
chemists to store large amount as own

822
00:37:09,230 --> 00:37:15,349
particular yeah the huge potions they

823
00:37:12,679 --> 00:37:18,858
look great it's just like okay I'm gonna

824
00:37:15,349 --> 00:37:22,759
work it out you really are more medical

825
00:37:18,858 --> 00:37:24,259
hacking and chopping and all sorts of

826
00:37:22,759 --> 00:37:25,909
things here we've got some old movies

827

00:37:24,259 --> 00:37:28,639
they're showing on the yeah we've got

828
00:37:25,909 --> 00:37:32,629
some old ads showing things that right

829
00:37:28,639 --> 00:37:36,699
back old aspirin ads panadol ads

830
00:37:32,630 --> 00:37:40,430
band-aid ads things that really will

831
00:37:36,699 --> 00:37:43,189
sparks it enables the woman gulping down

832
00:37:40,429 --> 00:37:44,298
her first row it says and I noticed on

833
00:37:43,190 --> 00:37:47,269
the wall back there was a big thing for

834
00:37:44,298 --> 00:37:49,278
banks yes Beck still on sale no

835
00:37:47,268 --> 00:37:53,988
absolutely not because when I was a kid

836
00:37:49,278 --> 00:37:55,818
I remember the TV ads yes something have

837
00:37:53,989 --> 00:37:58,639
a Becks I can't remember with me yeah

838
00:37:55,818 --> 00:38:02,179
yeah oh yeah it was a cup of tea effects

839
00:37:58,639 --> 00:38:04,818
are coveting a good lie down I'm know

840
00:38:02,179 --> 00:38:09,679
that one of the components one of the

841
00:38:04,818 --> 00:38:12,108

components um led to kidney shutdown I

842

00:38:09,679 --> 00:38:13,909

think yeah yeah I can't read I can't

843

00:38:12,108 --> 00:38:16,369

remember the name of it but a general

844

00:38:13,909 --> 00:38:17,748

pain relief yeah it was and it did very

845

00:38:16,369 --> 00:38:21,470

well at that it's just that it was

846

00:38:17,748 --> 00:38:22,669

highly addictive and it also damaged

847

00:38:21,469 --> 00:38:24,679

should keep these I remember this one

848

00:38:22,670 --> 00:38:27,259

yeah of course you do which that's got

849

00:38:24,679 --> 00:38:30,379

the 80s all over it Richard I think the

850

00:38:27,259 --> 00:38:31,789

pastel colors on the show oh but I

851

00:38:30,380 --> 00:38:33,480

remember watching this ad now what's

852

00:38:31,789 --> 00:38:35,760

yogurt icing I can't remember what you

853

00:38:33,480 --> 00:38:39,210

advertising I think it'll be it'll ask

854

00:38:35,760 --> 00:38:40,590

me she's holding up the tablet isn't

855

00:38:39,210 --> 00:38:42,090

that interesting when you see a TV

856
00:38:40,590 --> 00:38:43,740
commercial from 30 years ago and it's

857
00:38:42,090 --> 00:38:45,690
like you saw it yesterday yeah that's

858
00:38:43,739 --> 00:38:49,309
bizarre YouTube's like that you can you

859
00:38:45,690 --> 00:38:51,809
can spend hours of class not that I do I

860
00:38:49,309 --> 00:38:54,840
know that's cool that's going on with

861
00:38:51,809 --> 00:38:56,699
with with advertising from yeah why not

862
00:38:54,840 --> 00:38:58,980
thing I'd was really have lied down

863
00:38:56,699 --> 00:39:00,659
nearly where we started from and we're

864
00:38:58,980 --> 00:39:04,199
just coming to the last cabinet he would

865
00:39:00,659 --> 00:39:07,049
helical days that's old yeah these are

866
00:39:04,199 --> 00:39:10,049
samples of penicillin from howard

867
00:39:07,050 --> 00:39:12,390
flurries laboratory so the Australian

868
00:39:10,050 --> 00:39:18,210
scientist who with a collaborative team

869
00:39:12,389 --> 00:39:20,489
was able to help isolate and produce the

870
00:39:18,210 --> 00:39:22,230
first antibiotic ever we've got some of

871
00:39:20,489 --> 00:39:25,709
these samples that's right yeah and its

872
00:39:22,230 --> 00:39:27,809
original report wow that's that's a huge

873
00:39:25,710 --> 00:39:30,900
historical importance I love a little

874
00:39:27,809 --> 00:39:33,469
display here these are saviors so things

875
00:39:30,900 --> 00:39:35,700
that have had giant leaps forward

876
00:39:33,469 --> 00:39:37,328
vaccination for example let's have a

877
00:39:35,699 --> 00:39:40,328
look

878
00:39:37,329 --> 00:39:42,430
oh wait a minute there you are on the

879
00:39:40,329 --> 00:39:45,249
big screen yeah that's your voice in the

880
00:39:42,429 --> 00:39:47,679
background man I know I apologize now

881
00:39:45,248 --> 00:39:49,958
we're competing with me you can I will

882
00:39:47,679 --> 00:39:51,989
ignore you and talk to you and yes

883
00:39:49,958 --> 00:39:54,489
there's little 1958 it says here's a

884

00:39:51,989 --> 00:39:56,858
little vaccination leaflet little

885
00:39:54,489 --> 00:39:59,528
brochure there as much and a Lancet and

886
00:39:56,858 --> 00:40:03,338
comb for vaccinations and vaccination

887
00:39:59,528 --> 00:40:05,170
needles for smallpox Wow yeah well let's

888
00:40:03,338 --> 00:40:10,630
pop around the corner here out of the

889
00:40:05,170 --> 00:40:12,880
sound of your voice and we're right back

890
00:40:10,630 --> 00:40:15,278
to where we started from an ism as an

891
00:40:12,880 --> 00:40:17,680
old will hold as an ambulance from the

892
00:40:15,278 --> 00:40:19,599
70s or the 80s here once that I

893
00:40:17,679 --> 00:40:22,208
certainly remember well Killian Frankie

894
00:40:19,599 --> 00:40:24,190
thank you so much for accompanying me

895
00:40:22,208 --> 00:40:26,498
around this fantastic exhibition now how

896
00:40:24,190 --> 00:40:28,298
long is it here can you remind us it's

897
00:40:26,498 --> 00:40:31,238
on for another few months it'll wrap up

898
00:40:28,298 --> 00:40:33,130

in May so make sure you are come and

899

00:40:31,239 --> 00:40:35,679

have a look and this is at the Sydney's

900

00:40:33,130 --> 00:40:37,690

powerhouse museum which is a not far

901

00:40:35,679 --> 00:40:39,219

from downtown Sydney if you're covering

902

00:40:37,690 --> 00:40:41,139

internationally it's just near a tram

903

00:40:39,219 --> 00:40:43,028

stop too it's on all the tourist

904

00:40:41,139 --> 00:40:45,400

brochures very easy to Google powerhouse

905

00:40:43,028 --> 00:40:46,748

museum absolutely worthwhile to come and

906

00:40:45,400 --> 00:40:52,410

spend a few hours looking at this

907

00:40:46,748 --> 00:40:52,409

wonderful display of medical memorabilia

908

00:41:02,840 --> 00:41:07,710

isaac asimov jules verne and hg wells

909

00:41:05,789 --> 00:41:10,259

are some of the classic names of science

910

00:41:07,710 --> 00:41:14,300

fiction so let's take a look at how they

911

00:41:10,260 --> 00:41:14,300

thought the future was going to turn out

912

00:41:20,210 --> 00:41:27,329

in 1865 Jules Verne seemingly predicted

913
00:41:24,420 --> 00:41:29,820
solar sails massive sales that could

914
00:41:27,329 --> 00:41:32,730
propel a spacecraft using radiation from

915
00:41:29,820 --> 00:41:34,980
the Sun in 1864 the scientific community

916
00:41:32,730 --> 00:41:37,619
knew that light from the Sun carried

917
00:41:34,980 --> 00:41:39,800
momentum and exerted forces on objects

918
00:41:37,619 --> 00:41:42,359
in his book from the earth to the moon

919
00:41:39,800 --> 00:41:44,970
Jules extrapolated that knowledge to

920
00:41:42,360 --> 00:41:49,289
suggest that light could be used to push

921
00:41:44,969 --> 00:41:53,489
a spacecraft in 2010 the japanese space

922
00:41:49,289 --> 00:41:55,199
agency deployed and used a solar sail he

923
00:41:53,489 --> 00:41:58,589
also seemingly predicted video

924
00:41:55,199 --> 00:42:00,480
conferencing FaceTime and Skype in his

925
00:41:58,590 --> 00:42:02,490
book in the year two thousand eight

926
00:42:00,480 --> 00:42:04,769
hundred and eighty nine he predicted

927
00:42:02,489 --> 00:42:07,169
that telephones would have moving images

928
00:42:04,769 --> 00:42:13,259
and he called this device the fano

929
00:42:07,170 --> 00:42:16,889
telephone in 1964 Isaac Asimov correctly

930
00:42:13,260 --> 00:42:18,300
predicted that by 2014 only robotic

931
00:42:16,889 --> 00:42:20,789
missions to Mars will have been

932
00:42:18,300 --> 00:42:23,370
accomplished but that a human mission

933
00:42:20,789 --> 00:42:27,989
would be in the planning stages hello

934
00:42:23,369 --> 00:42:30,719
Mars one azimoff also predicted by 2014

935
00:42:27,989 --> 00:42:33,750
robots would exist that would be neither

936
00:42:30,719 --> 00:42:36,209
common all very good he also suggested

937
00:42:33,750 --> 00:42:39,780
that machines would have taken over many

938
00:42:36,210 --> 00:42:42,300
routine human jobs hg wells best known

939
00:42:39,780 --> 00:42:46,350
for his work War of the Worlds correctly

940
00:42:42,300 --> 00:42:48,570
predicted in 1913 the atomic bomb which

941

00:42:46,349 --> 00:42:50,579
could decimate cities it would cause

942
00:42:48,570 --> 00:42:54,120
mushroom clouds and result in

943
00:42:50,579 --> 00:42:56,759
radioactive fallout all of this 30 years

944
00:42:54,119 --> 00:42:58,829
before the Manhattan Project they didn't

945
00:42:56,760 --> 00:43:01,050
get everything right however and here

946
00:42:58,829 --> 00:43:06,329
are four scientific predictions that

947
00:43:01,050 --> 00:43:10,100
proved a little wide of the mark Asimov

948
00:43:06,329 --> 00:43:12,809
predicted in 1964 that by 2014

949
00:43:10,099 --> 00:43:15,480
experimental nuclear fusion power plants

950
00:43:12,809 --> 00:43:16,650
would be in existence Asimov also

951
00:43:15,480 --> 00:43:19,469
suggested that there would be a

952
00:43:16,650 --> 00:43:22,710
permanent moon colony and possibly deep

953
00:43:19,469 --> 00:43:24,719
sea underwater colonies as well despite

954
00:43:22,710 --> 00:43:27,059
Jules Verne surprisingly accurate

955
00:43:24,719 --> 00:43:29,759

descriptions of the Apollo moon landings

956

00:43:27,059 --> 00:43:32,730

he did also suggest the capsule would be

957

00:43:29,760 --> 00:43:34,970

fired from a huge gun which if built in

958

00:43:32,730 --> 00:43:38,369

reality would cause an unsurvivable

959

00:43:34,969 --> 00:43:40,469

acceleration of 1,000 g and arthur c

960

00:43:38,369 --> 00:43:42,719

clarke predicted that with the rise of

961

00:43:40,469 --> 00:43:44,839

Technology no one would travel to work

962

00:43:42,719 --> 00:43:47,369

but they would travel for pleasure

963

00:43:44,840 --> 00:43:49,559

unfortunately that hasn't panned out

964

00:43:47,369 --> 00:43:51,599

want to find out more about predictions

965

00:43:49,559 --> 00:43:53,549

from science fiction check out our

966

00:43:51,599 --> 00:43:57,139

website where we've got some links and

967

00:43:53,550 --> 00:43:57,140

i'll see you back here next week

968

00:44:13,960 --> 00:44:23,990

as reported in The Sydney Morning Herald

969

00:44:19,420 --> 00:44:27,530

24th of January 2016 national psychic TV

970
00:44:23,989 --> 00:44:31,338
show forced off air after threats to

971
00:44:27,530 --> 00:44:33,380
celebrity clairvoyance and I don't even

972
00:44:31,338 --> 00:44:34,960
use the word so-called or put them in

973
00:44:33,380 --> 00:44:38,000
quotation marks or anything like that

974
00:44:34,960 --> 00:44:42,170
now psychic TV has been on air for a few

975
00:44:38,000 --> 00:44:44,059
years now it's a program recorded or its

976
00:44:42,170 --> 00:44:45,769
transmitted live i think is transmitted

977
00:44:44,059 --> 00:44:49,190
alive from the studio and frenchs forest

978
00:44:45,769 --> 00:44:51,530
now i have met some of these so-called

979
00:44:49,190 --> 00:44:54,019
psychics that appear on psychic TV I

980
00:44:51,530 --> 00:44:57,260
bump into the mind-body wallet I've sort

981
00:44:54,019 --> 00:44:59,809
of known them along the years what they

982
00:44:57,260 --> 00:45:02,569
tell me about it is a very interesting

983
00:44:59,809 --> 00:45:06,559
of course now there's no two ways about

984
00:45:02,568 --> 00:45:09,108
this this is a way to promote a 24-hour

985
00:45:06,559 --> 00:45:11,539
telephone psychic reading service which

986
00:45:09,108 --> 00:45:14,000
is something like five dollars 45 per

987
00:45:11,539 --> 00:45:15,679
minute it's something that goes on all

988
00:45:14,000 --> 00:45:17,449
around the world dial a psychic you can

989
00:45:15,679 --> 00:45:19,489
see them on the backs of magazines and

990
00:45:17,449 --> 00:45:22,730
things like that but this one however is

991
00:45:19,489 --> 00:45:25,969
interesting because they have a number

992
00:45:22,730 --> 00:45:28,880
of psychics in the studio most of them

993
00:45:25,969 --> 00:45:31,250
are taking calls on the 1-800 numbers

994
00:45:28,880 --> 00:45:37,010
the pain numbers but they'll bring up

995
00:45:31,250 --> 00:45:39,500
one who will answer queries live on air

996
00:45:37,010 --> 00:45:41,420
but not really what they do is they'll

997
00:45:39,500 --> 00:45:43,969
play recording a voice message from

998

00:45:41,420 --> 00:45:48,289
somebody or a message sent in by email

999
00:45:43,969 --> 00:45:51,049
and says hello I'm Fred or I'm Joan my

1000
00:45:48,289 --> 00:45:53,269
birth date is so so so and so set 1973

1001
00:45:51,050 --> 00:45:55,220
can I get a general life and love

1002
00:45:53,269 --> 00:45:57,440
reading or something like that and

1003
00:45:55,219 --> 00:46:00,338
that's the last you hear of them then

1004
00:45:57,440 --> 00:46:03,470
it's up to the so-called psychic to

1005
00:46:00,338 --> 00:46:06,139
spread the tarot cards or scribble

1006
00:46:03,469 --> 00:46:08,029
something on numerology charts or

1007
00:46:06,139 --> 00:46:11,179
something like that and then after that

1008
00:46:08,030 --> 00:46:14,150
the gamma nah we'll talk to spirit well

1009
00:46:11,179 --> 00:46:15,828
ghosts or whatever and then just deliver

1010
00:46:14,150 --> 00:46:18,740
a series of what we know as Barnum

1011
00:46:15,829 --> 00:46:20,839
statements it's pretty textbook stuff

1012
00:46:18,739 --> 00:46:23,328

pretty easy stuff they don't have to do

1013

00:46:20,838 --> 00:46:26,750

interaction live on air with anybody who

1014

00:46:23,329 --> 00:46:28,580

calls in that sort of done privately

1015

00:46:26,750 --> 00:46:34,429

to give you a taste here's a little

1016

00:46:28,579 --> 00:46:36,980

sample of a typical session now we have

1017

00:46:34,429 --> 00:46:39,529

a whole team of psychics here at psychic

1018

00:46:36,980 --> 00:46:42,260

TV and they're available to you on

1019

00:46:39,530 --> 00:46:44,810

option 5 and they're available 24 hours

1020

00:46:42,260 --> 00:46:46,640

a day so we've got our at-home psychic

1021

00:46:44,809 --> 00:46:48,019

so please give us a call if you would

1022

00:46:46,639 --> 00:46:51,409

like to speak to one of them you can

1023

00:46:48,019 --> 00:46:53,739

press option 5 and dial the 1-800 number

1024

00:46:51,409 --> 00:46:56,599

or the 1 900 number on the screen and

1025

00:46:53,739 --> 00:46:57,619

follow the prompts and press option 5 if

1026

00:46:56,599 --> 00:47:01,369

you'd like to speak to one of our

1027
00:46:57,619 --> 00:47:03,500
at-home psychics so in the meantime we

1028
00:47:01,369 --> 00:47:07,069
have a voice message for you even now on

1029
00:47:03,500 --> 00:47:14,000
dishes for me thanks hi Maurice Veronica

1030
00:47:07,070 --> 00:47:19,100
like this to the 657 I would like you I

1031
00:47:14,000 --> 00:47:22,630
know I'm going to make you so happy I am

1032
00:47:19,099 --> 00:47:29,170
where we could tell me you can help

1033
00:47:22,630 --> 00:47:29,170
going to name him and the question that

1034
00:47:29,230 --> 00:47:37,789
work yourself or for another job thank

1035
00:47:34,880 --> 00:47:39,829
you very much in school thank you very

1036
00:47:37,789 --> 00:47:42,110
much for your voicemail message Veronica

1037
00:47:39,829 --> 00:47:44,750
so she's got the feeling that she's made

1038
00:47:42,110 --> 00:47:46,190
gonna meet her soul mate in soon but she

1039
00:47:44,750 --> 00:47:48,590
wants to know how she's going to meet

1040
00:47:46,190 --> 00:47:50,659
him fingers and toes got to be careful

1041
00:47:48,590 --> 00:47:52,460
with the hell because the universe is in

1042
00:47:50,659 --> 00:47:56,269
charge of the how and the universe is in

1043
00:47:52,460 --> 00:47:57,889
charge of when so we need to leave that

1044
00:47:56,269 --> 00:47:59,599
pretty much to the universe I actually

1045
00:47:57,889 --> 00:48:01,460
do get I don't get you need to go

1046
00:47:59,599 --> 00:48:02,929
nightclubbing or anything like that it

1047
00:48:01,460 --> 00:48:04,610
does feel that this person is going to

1048
00:48:02,929 --> 00:48:06,589
feel like this purse is actually going

1049
00:48:04,610 --> 00:48:08,030
to come to you naturally normally I have

1050
00:48:06,590 --> 00:48:09,800
a lot of people say to me yeah but I

1051
00:48:08,030 --> 00:48:11,420
never go out I never do this I never do

1052
00:48:09,800 --> 00:48:13,070
that what you never go to the shops you

1053
00:48:11,420 --> 00:48:16,250
never go to the newsagent she never walk

1054
00:48:13,070 --> 00:48:17,870
up the street when the time is right and

1055

00:48:16,250 --> 00:48:19,219
doesn't feel like it is because it feels

1056
00:48:17,869 --> 00:48:20,659
like you kind of walk around the corner

1057
00:48:19,219 --> 00:48:22,099
going I wonder if that's them i wonder

1058
00:48:20,659 --> 00:48:25,460
if thats mi wonder if that sent that

1059
00:48:22,099 --> 00:48:27,019
actually hear it gets in the way because

1060
00:48:25,460 --> 00:48:28,940
the more we need something the more we

1061
00:48:27,019 --> 00:48:31,070
want something it's kind of the more we

1062
00:48:28,940 --> 00:48:33,179
push it away so what's going to happen

1063
00:48:31,070 --> 00:48:35,910
it's it's kind of like it

1064
00:48:33,179 --> 00:48:37,799
they're saying the win is actually when

1065
00:48:35,909 --> 00:48:39,358
you're just focusing on doing what it is

1066
00:48:37,800 --> 00:48:41,220
you're doing and not even caring about

1067
00:48:39,358 --> 00:48:42,420
whether anyone else is there and it's

1068
00:48:41,219 --> 00:48:44,489
like all of a sudden it feels like

1069
00:48:42,420 --> 00:48:47,068

there's a tap on the shoulder and with

1070

00:48:44,489 --> 00:48:48,568

that tap on the shoulder it's the last

1071

00:48:47,068 --> 00:48:51,779

thing you expect and its really really

1072

00:48:48,568 --> 00:48:54,719

nice surprise it does feel like

1073

00:48:51,780 --> 00:48:57,569

definitely sooner rather than later as

1074

00:48:54,719 --> 00:48:58,828

you know it's within two months and it's

1075

00:48:57,568 --> 00:49:00,568

actually quite funny because you guys

1076

00:48:58,829 --> 00:49:01,440

you see me I shuffle these cards all the

1077

00:49:00,568 --> 00:49:03,210

time and I'm shuffling shuffling

1078

00:49:01,440 --> 00:49:05,309

shuffling and two of the same cards have

1079

00:49:03,210 --> 00:49:07,079

come out again so it's definitely on its

1080

00:49:05,309 --> 00:49:09,809

way we've got triumph out there for you

1081

00:49:07,079 --> 00:49:12,089

spiritual union has come up as well

1082

00:49:09,809 --> 00:49:13,980

because this person is is on the same

1083

00:49:12,088 --> 00:49:15,838

wavelength issue and it's that meeting

1084
00:49:13,980 --> 00:49:18,088
of the minds it's kind of like someone

1085
00:49:15,838 --> 00:49:19,799
you can trust on all levels someone that

1086
00:49:18,088 --> 00:49:22,139
you have a great connection with it and

1087
00:49:19,800 --> 00:49:25,019
I'm getting source sides and saw cheeks

1088
00:49:22,139 --> 00:49:27,000
from laughing so much and both of you

1089
00:49:25,019 --> 00:49:30,809
it's just you you light up each other's

1090
00:49:27,000 --> 00:49:34,739
life and it's absolutely fabulous enjoy

1091
00:49:30,809 --> 00:49:36,930
the the enjoy with delight the feeling

1092
00:49:34,739 --> 00:49:39,808
that it's coming and enjoy that feeling

1093
00:49:36,929 --> 00:49:42,750
because that'll bring it quicker too so

1094
00:49:39,809 --> 00:49:45,660
as you can hear this is really what we

1095
00:49:42,750 --> 00:49:49,440
call Barnum statements it's just pretty

1096
00:49:45,659 --> 00:49:51,989
low-level stuff but I would strongly

1097
00:49:49,440 --> 00:49:53,909
suspect most of the so-called psychics

1098
00:49:51,989 --> 00:49:56,118
that appear on this probably genuinely

1099
00:49:53,909 --> 00:50:00,118
believe that they do have special

1100
00:49:56,119 --> 00:50:02,519
psychic powers many of them do now you

1101
00:50:00,119 --> 00:50:04,108
can't I can't say that for sure I mean

1102
00:50:02,519 --> 00:50:05,548
undoubtedly there are the Sharks and the

1103
00:50:04,108 --> 00:50:07,920
cons out there who've know full well

1104
00:50:05,548 --> 00:50:09,869
they don't have a special psychic powers

1105
00:50:07,920 --> 00:50:12,720
but they certainly know an easy gig when

1106
00:50:09,869 --> 00:50:15,539
they come across one but many of them

1107
00:50:12,719 --> 00:50:18,118
guess really do believe there's a gaze

1108
00:50:15,539 --> 00:50:19,949
of cross there tarot deck or they

1109
00:50:18,119 --> 00:50:23,369
scribble on their numerology charts

1110
00:50:19,949 --> 00:50:25,409
doing mathematics which would thrill

1111
00:50:23,369 --> 00:50:29,849
even Einstein I'm sure that they really

1112

00:50:25,409 --> 00:50:31,500
are delivering mystical magical messages

1113
00:50:29,849 --> 00:50:35,250
but that doesn't attract as one

1114
00:50:31,500 --> 00:50:36,690
commenter as remarked and reminded us

1115
00:50:35,250 --> 00:50:39,750
that doesn't detract at the end of the

1116
00:50:36,690 --> 00:50:44,159
day what they're doing is not real it's

1117
00:50:39,750 --> 00:50:46,199
giving bogus messages there is this term

1118
00:50:44,159 --> 00:50:46,949
out there called grief vampires which

1119
00:50:46,199 --> 00:50:48,569
refers to pee

1120
00:50:46,949 --> 00:50:50,429
people who prey on people's grief to

1121
00:50:48,570 --> 00:50:52,740
make money which some psychics do

1122
00:50:50,429 --> 00:50:56,419
especially those who are know full well

1123
00:50:52,739 --> 00:50:59,219
what they're doing is a con a fraud a

1124
00:50:56,420 --> 00:51:01,849
game but I think that really ultimately

1125
00:50:59,219 --> 00:51:04,549
this is a question of Consumer Affairs

1126
00:51:01,849 --> 00:51:07,588

now i think and i'm pretty sure that

1127

00:51:04,550 --> 00:51:09,570

during the program is a crawl at the

1128

00:51:07,588 --> 00:51:11,880

bottom of the screen and somewhere along

1129

00:51:09,570 --> 00:51:15,329

the crawl or in the credits it'll save

1130

00:51:11,880 --> 00:51:17,460

for entertainment purposes only really

1131

00:51:15,329 --> 00:51:19,829

so they do the people on that show

1132

00:51:17,460 --> 00:51:22,349

really believe they're doing it just for

1133

00:51:19,829 --> 00:51:23,310

entertainment purposes only know most of

1134

00:51:22,349 --> 00:51:26,250

them think they're really getting

1135

00:51:23,309 --> 00:51:29,608

special mystical messages to help people

1136

00:51:26,250 --> 00:51:31,260

but regardless yes it's a it's a surely

1137

00:51:29,608 --> 00:51:32,639

it's something for consumerAffairs but i

1138

00:51:31,260 --> 00:51:34,740

don't think consumer affairs really

1139

00:51:32,639 --> 00:51:36,420

cares about psychics & psychic claims

1140

00:51:34,739 --> 00:51:38,250

and things like this mind body while it

1141
00:51:36,420 --> 00:51:39,960
is a great example you don't see

1142
00:51:38,250 --> 00:51:43,829
investigators from the government

1143
00:51:39,960 --> 00:51:45,960
they're checking out the bona fide ease

1144
00:51:43,829 --> 00:51:47,490
or the claims being made i don't think

1145
00:51:45,960 --> 00:51:50,699
they really take them seriously

1146
00:51:47,489 --> 00:51:53,578
nevertheless to get back to the gist of

1147
00:51:50,699 --> 00:51:55,919
the story it's been reported that these

1148
00:51:53,579 --> 00:51:59,010
so-called psychics have been receiving

1149
00:51:55,920 --> 00:52:01,950
abuse online or even threats and

1150
00:51:59,010 --> 00:52:03,839
somebody is quoted as saying well maybe

1151
00:52:01,949 --> 00:52:06,328
the cast needs to be abused i mean

1152
00:52:03,838 --> 00:52:07,710
you're ripping people off the people who

1153
00:52:06,329 --> 00:52:10,470
follow this show are just poorly

1154
00:52:07,710 --> 00:52:12,059
educated or in a bad spot in their life

1155
00:52:10,469 --> 00:52:15,179
at the moment either way they're

1156
00:52:12,059 --> 00:52:16,739
vulnerable this show is shameless in a

1157
00:52:15,179 --> 00:52:18,449
way yes the show is shameless it's

1158
00:52:16,739 --> 00:52:20,189
basically a business but the correct

1159
00:52:18,449 --> 00:52:21,679
path here is to expose the Barnum

1160
00:52:20,190 --> 00:52:24,179
statements for what they are and

1161
00:52:21,679 --> 00:52:26,879
ultimately to go through consumer

1162
00:52:24,179 --> 00:52:29,460
affairs for people peddling a product

1163
00:52:26,880 --> 00:52:30,690
which does not live up to the claims now

1164
00:52:29,460 --> 00:52:32,369
what I'll do in the show notes for this

1165
00:52:30,690 --> 00:52:34,980
episode is I'll link to some videos of

1166
00:52:32,369 --> 00:52:38,068
psychic TV so you can get a better idea

1167
00:52:34,980 --> 00:52:40,949
or you just google psychic TV Australia

1168
00:52:38,068 --> 00:52:42,838
and they'll come up in in YouTube so an

1169

00:52:40,949 --> 00:52:46,710
odd story coming out of Australia I do

1170
00:52:42,838 --> 00:52:48,480
not condone people using threats of

1171
00:52:46,710 --> 00:52:50,099
violence against psychics I don't think

1172
00:52:48,480 --> 00:52:53,309
there's these people are psychic for one

1173
00:52:50,099 --> 00:52:56,460
moment but that does not mean people

1174
00:52:53,309 --> 00:52:58,440
have the right to threaten and abuse

1175
00:52:56,460 --> 00:53:00,900
people online in this manner so

1176
00:52:58,440 --> 00:53:02,369
counterproductive it's so incredibly

1177
00:53:00,900 --> 00:53:04,050
counterproductive and this is what a lot

1178
00:53:02,369 --> 00:53:06,239
of the anti-vaccination people have been

1179
00:53:04,050 --> 00:53:09,960
doing for many years as abusing and

1180
00:53:06,239 --> 00:53:11,909
threatening people harassing people it

1181
00:53:09,960 --> 00:53:15,869
hasn't helped it their cause so there

1182
00:53:11,909 --> 00:53:18,440
you go psychic TV I wonder if they saw

1183
00:53:15,869 --> 00:53:18,440

this coming

1184

00:53:33,480 --> 00:53:38,740

hey svenska skeptical the vet vet at

1185

00:53:36,730 --> 00:53:40,869

vatan scope for billing in the boy talk

1186

00:53:38,739 --> 00:53:43,569

none hanger of the skeptic shown that an

1187

00:53:40,869 --> 00:53:46,299

ox 0 alpha alpha dog poop science quiz

1188

00:53:43,570 --> 00:53:48,850

or skeptical Kevin thomasville Queen

1189

00:53:46,300 --> 00:53:51,010

pave pave bloom tuvo from Des a fat

1190

00:53:48,849 --> 00:53:52,719

spawning vivar flealick our local

1191

00:53:51,010 --> 00:53:54,970

training a hunter mill on the topic on

1192

00:53:52,719 --> 00:53:56,919

warm to install that on the fence

1193

00:53:54,969 --> 00:54:01,509

non-local training but from the start

1194

00:53:56,920 --> 00:54:04,720

time 12 your pot on a day is new hello

1195

00:54:01,510 --> 00:54:06,490

all skeptics in Sweden I'm sure you

1196

00:54:04,719 --> 00:54:09,009

already know that the Swedish skeptics

1197

00:54:06,489 --> 00:54:11,259

Association not only is a big fan of the

1198
00:54:09,010 --> 00:54:13,750
skeptical zone but that we also organize

1199
00:54:11,260 --> 00:54:18,330
lectures pop science quiz and skeptics

1200
00:54:13,750 --> 00:54:22,090
in the pub all over the country go to ww

1201
00:54:18,329 --> 00:54:24,789
vof se to see what our seven local

1202
00:54:22,090 --> 00:54:26,500
chapters are up to and if you live in a

1203
00:54:24,789 --> 00:54:29,710
place where there is no local chapter

1204
00:54:26,500 --> 00:54:32,699
why not start on yourself I'm talking to

1205
00:54:29,710 --> 00:54:32,699
you neyo

1206
00:54:44,309 --> 00:54:48,670
thank you for listening to the skeptic

1207
00:54:46,838 --> 00:54:50,768
zone coming up next week I hope to have

1208
00:54:48,670 --> 00:54:53,440
some reports as mentioned earlier in the

1209
00:54:50,768 --> 00:54:56,588
show but the continuing fall out about

1210
00:54:53,440 --> 00:54:59,679
the awarding of the PhD to an anti vac

1211
00:54:56,588 --> 00:55:03,880
sir the chiropractic Board of Australia

1212
00:54:59,679 --> 00:55:06,460
under fire and Mark Zuckerberg and his

1213
00:55:03,880 --> 00:55:09,548
daughter thank you to those people who

1214
00:55:06,460 --> 00:55:12,849
helped the skeptic zone by subscribing

1215
00:55:09,548 --> 00:55:18,429
by a paypal and you can do that via our

1216
00:55:12,849 --> 00:55:20,140
website at wwc a petting zoo TV and news

1217
00:55:18,429 --> 00:55:22,868
has just come in that the next

1218
00:55:20,139 --> 00:55:25,509
Australian skeptics National Convention

1219
00:55:22,869 --> 00:55:28,740
which will be in Melbourne looks like

1220
00:55:25,509 --> 00:55:31,690
being held towards the end of november

1221
00:55:28,739 --> 00:55:34,629
november i think the tentative dates or

1222
00:55:31,690 --> 00:55:37,028
the dates are the 25th to the 27th will

1223
00:55:34,630 --> 00:55:39,099
certainly be confirming that and talking

1224
00:55:37,028 --> 00:55:41,409
more about that convention in the coming

1225
00:55:39,099 --> 00:55:43,480
months but for this week this is Richard

1226

00:55:41,409 --> 00:55:49,629
Saunders signing off from Sydney

1227
00:55:43,480 --> 00:55:52,150
Australia you've been listening to the

1228
00:55:49,630 --> 00:55:55,990
sceptics own podcast visit our website

1229
00:55:52,150 --> 00:55:59,259
at wwc a petting zoo TV for contacts and

1230
00:55:55,989 --> 00:56:02,439
archive of all episodes since 2008 and

1231
00:55:59,259 --> 00:56:04,480
our online store please support the

1232
00:56:02,440 --> 00:56:07,838
skeptic zone by following us on twitter

1233
00:56:04,480 --> 00:56:11,349
at skeptic zone liking us on facebook

1234
00:56:07,838 --> 00:56:12,849
and leaving a review on iTunes you can

1235
00:56:11,349 --> 00:56:16,690
also show your support by subscribing

1236
00:56:12,849 --> 00:56:19,750
via PayPal or as little as 99 cents a

1237
00:56:16,690 --> 00:56:21,338
week the skeptic zone is an independent

1238
00:56:19,750 --> 00:56:23,798
production the views and opinions

1239
00:56:21,338 --> 00:56:25,900
expressed on the skeptic zone and not

1240
00:56:23,798 --> 00:56:31,108

necessarily those of Australian skeptics

1241

00:56:25,900 --> 00:56:31,108

or any other skeptical organization