

The Skeptic Zone
Show 379 - 24 Jan 2016



Tilly Boleyn

1
00:00:22,200 --> 00:00:09,089
welcome to the skeptic zone the podcast

2
00:00:29,740 --> 00:00:24,909
hello and welcome to the skeptics are an

3
00:00:32,799 --> 00:00:29,750
episode number 379 for the 24th of

4
00:00:35,639 --> 00:00:32,809
January 2016 Richard Saunders here with

5
00:00:39,130 --> 00:00:35,649
you from Maggie Maggie Maggie Maggie

6
00:00:41,979 --> 00:00:39,140
overcast and Maggie Sydney Australia and

7
00:00:44,380 --> 00:00:41,989
it's muggy did I say it was muggy coming

8
00:00:47,649 --> 00:00:44,390
up on this week's show a special report

9
00:00:50,700 --> 00:00:47,659
a special and for me what a pleasure it

10
00:00:53,799 --> 00:00:50,710
was a special report I go to the

11
00:00:57,759 --> 00:00:53,809
powerhouse museum here in Sydney and

12
00:01:00,130 --> 00:00:57,769
have a lovely tour of a new exhibition

13
00:01:02,579 --> 00:01:00,140

well and exhibitions been on for a

14

00:01:04,990 --> 00:01:02,589

little while now with Tilly Berlin and

15

00:01:06,840 --> 00:01:05,000

Frankie Lee now they were gracious

16

00:01:10,600 --> 00:01:06,850

enough to give me a guided tour of the

17

00:01:13,810 --> 00:01:10,610

recollect health and medicine exhibition

18

00:01:15,700 --> 00:01:13,820

now this is a fascinating exhibition the

19

00:01:18,100 --> 00:01:15,710

powerhouse museum where they have

20

00:01:19,960 --> 00:01:18,110

brought up a lot of the stored items

21

00:01:22,660 --> 00:01:19,970

they have that never really see the

22

00:01:26,100 --> 00:01:22,670

light of day when it comes to medical

23

00:01:28,720 --> 00:01:26,110

history and what a collection they have

24

00:01:31,270 --> 00:01:28,730

including I'm very pleased to say some

25

00:01:34,080 --> 00:01:31,280

things that I've donated to the

26

00:01:39,040 --> 00:01:34,090

exhibition by way of quack products

27

00:01:41,590 --> 00:01:39,050

quackery earlier candles and lots of

28

00:01:43,990 --> 00:01:41,600

other things so coming up at the top of

29

00:01:46,570 --> 00:01:44,000

the show join me and Tilly and Frankie

30

00:01:48,580 --> 00:01:46,580

as we wander around this exhibition and

31

00:01:50,230 --> 00:01:48,590

if you're in Sydney or you're coming to

32

00:01:52,899 --> 00:01:50,240

Sydney over the next couple of months I

33

00:01:55,180 --> 00:01:52,909

can really recommend visiting the

34

00:01:57,300 --> 00:01:55,190

powerhouse museum very easy to find and

35

00:01:59,289 --> 00:01:57,310

having a look at this exhibition

36

00:02:01,300 --> 00:01:59,299

following that it's a week in science

37

00:02:06,399 --> 00:02:01,310

from the Royal Institution of Australia

38

00:02:08,830 --> 00:02:06,409

w WR I a us Toby you and then I'll

39

00:02:12,059 --> 00:02:08,840

report on a recent development here to

40

00:02:16,119 --> 00:02:12,069

do with something called psychic TV

41

00:02:19,960 --> 00:02:16,129

psychic TV show that emanates from

42

00:02:22,570 --> 00:02:19,970

Sydney and it's ever there's been some

43

00:02:24,250 --> 00:02:22,580

controversy as reported in the

44

00:02:26,649 --> 00:02:24,260

newspapers today we'll get to that a bit

45

00:02:28,570 --> 00:02:26,659

later in the show there is a lot of news

46

00:02:31,330 --> 00:02:28,580

about at the moment with a chiropractic

47

00:02:34,120 --> 00:02:31,340

board of Australia under investigation

48

00:02:38,100 --> 00:02:34,130

and criticism there's more

49

00:02:40,810 --> 00:02:38,110

fall out due to the seemingly ridiculous

50

00:02:43,000 --> 00:02:40,820

PhD awarded by the University of

51
00:02:46,720 --> 00:02:43,010
Wollongong to an anti vac sir and we're

52
00:02:48,790 --> 00:02:46,730
not forgetting Mark Zuckerberg and the

53
00:02:50,320 --> 00:02:48,800
fallout from him posting a picture of

54
00:02:53,050 --> 00:02:50,330
his daughter at the doctor waiting to

55
00:02:55,120 --> 00:02:53,060
get her vaccinations but they might have

56
00:02:56,530 --> 00:02:55,130
to wait till next week well that's

57
00:02:58,420 --> 00:02:56,540
enough for me at the moment I got to run

58
00:03:01,180 --> 00:02:58,430
downstairs open up the fridge and dive

59
00:03:03,070 --> 00:03:01,190
into the freezer shut the door and have

60
00:03:27,100 --> 00:03:03,080
a root beer well I'm doing that I hope

61
00:03:30,100 --> 00:03:27,110
you enjoy the skeptic zone we are

62
00:03:32,260 --> 00:03:30,110
wonderful atmospheric tones of a museum

63
00:03:35,530 --> 00:03:32,270

and we are the powerhouse museum here in

64

00:03:37,870 --> 00:03:35,540

Sydney Australia this is a being a place

65

00:03:38,830 --> 00:03:37,880

of pilgrimage for me for many years I

66

00:03:40,840 --> 00:03:38,840

come here to do the mystery

67

00:03:43,900 --> 00:03:40,850

investigators show but apart from that I

68

00:03:45,610 --> 00:03:43,910

love to come here regardless i'm very

69

00:03:47,710 --> 00:03:45,620

lucky today to be in the company of two

70

00:03:49,750 --> 00:03:47,720

eminent people who do we have here and

71

00:03:51,340 --> 00:03:49,760

what's your position hi I'm till E

72

00:03:53,740 --> 00:03:51,350

Berlin I'm the health and medicine

73

00:03:55,540 --> 00:03:53,750

curator at the powerhouse museum what an

74

00:03:57,940 --> 00:03:55,550

interesting job mmm what are you very

75

00:04:00,340 --> 00:03:57,950

Joe interesting and we have hi I'm

76
00:04:02,580 --> 00:04:00,350
Frankie Lee and I work as a one of the

77
00:04:06,070 --> 00:04:02,590
producers of the Sydney Science Festival

78
00:04:07,390 --> 00:04:06,080
another great job I'm very jealous i'm

79
00:04:08,949 --> 00:04:07,400
very jealous so we're here at the

80
00:04:10,449 --> 00:04:08,959
powerhouse museum today and we're going

81
00:04:11,710 --> 00:04:10,459
to be looking through an exhibition

82
00:04:14,170 --> 00:04:11,720
which has been running for a few months

83
00:04:17,170 --> 00:04:14,180
and has got a few more months to run

84
00:04:20,170 --> 00:04:17,180
indeed it has it's called recollect

85
00:04:22,930 --> 00:04:20,180
health and medicine and it's the sixth

86
00:04:25,090 --> 00:04:22,940
in our recollect series which is a way

87
00:04:27,850 --> 00:04:25,100
that the museum tackles a problem that

88
00:04:31,570 --> 00:04:27,860

all big institutions have in that we

89

00:04:34,870 --> 00:04:31,580

have half a million objects but at any

90

00:04:37,390 --> 00:04:34,880

one time only two or maybe three percent

91

00:04:40,360 --> 00:04:37,400

of them are actually available for

92

00:04:43,480 --> 00:04:40,370

people to look at so recollects are a

93

00:04:45,610 --> 00:04:43,490

way that we can quite quickly rotate

94

00:04:47,950 --> 00:04:45,620

large amounts of objects around

95

00:04:50,820 --> 00:04:47,960

particular theme so that our visitors

96

00:04:54,820 --> 00:04:50,830

can come and see study and enjoy them

97

00:04:57,250 --> 00:04:54,830

more regularly fantastic yeah so this

98

00:04:59,620 --> 00:04:57,260

particular exhibition is on all about

99

00:05:01,710 --> 00:04:59,630

well it's a section of our health and

100

00:05:04,629 --> 00:05:01,720

medicine collection there are more than

101

00:05:06,100 --> 00:05:04,639

2,000 objects and I thought that we

102

00:05:08,890 --> 00:05:06,110

could go through and just touch on a few

103

00:05:12,040 --> 00:05:08,900

of my favorites so we're starting our

104

00:05:14,080 --> 00:05:12,050

little walk now we're in the lower level

105

00:05:16,390 --> 00:05:14,090

of the museum and as a massive museum I

106

00:05:19,060 --> 00:05:16,400

must say yeah its massive and it's like

107

00:05:21,430 --> 00:05:19,070

a true it's got that true museum feel

108

00:05:24,070 --> 00:05:21,440

about it hasn't it thank you yes it does

109

00:05:25,480 --> 00:05:24,080

that's what comes with awesome objects

110

00:05:26,710 --> 00:05:25,490

populated throughout a building and

111

00:05:29,500 --> 00:05:26,720

looking at some now but they're only

112

00:05:31,420 --> 00:05:29,510

photographs okay yeah so this entry into

113

00:05:34,330 --> 00:05:31,430

the recollect is to really try to

114

00:05:37,810 --> 00:05:34,340

reinforce to people that it's visible

115

00:05:39,490 --> 00:05:37,820

collection storage what that means is we

116

00:05:41,439 --> 00:05:39,500

are taking these objects out of the

117

00:05:44,020 --> 00:05:41,449

collection store and we're putting them

118

00:05:46,080 --> 00:05:44,030

on display in pretty much the same way

119

00:05:49,540 --> 00:05:46,090

that we store them so it's a way of

120

00:05:52,000 --> 00:05:49,550

really quickly and without much money

121

00:05:54,700 --> 00:05:52,010

being able to really rotate objects

122

00:05:56,560 --> 00:05:54,710

inside the museum so as we as we see the

123

00:05:58,120 --> 00:05:56,570

big objects down the gallery that will

124

00:06:00,430 --> 00:05:58,130

go and have a look at their not on

125

00:06:03,640 --> 00:06:00,440

beautiful fancy plants what they're on

126
00:06:06,460 --> 00:06:03,650
is the actual crates that we store them

127
00:06:09,100 --> 00:06:06,470
on so it gives you a little snapshot

128
00:06:11,260 --> 00:06:09,110
into how we store objects and these

129
00:06:12,909 --> 00:06:11,270
photographs on the wall show you how

130
00:06:14,680 --> 00:06:12,919
they're genuinely stored in our

131
00:06:16,390 --> 00:06:14,690
collection and they're life-sized yet

132
00:06:17,890 --> 00:06:16,400
the life-size as we look at the

133
00:06:19,510 --> 00:06:17,900
photographs on the wall here they're

134
00:06:21,250 --> 00:06:19,520
high detailed high-res I guess you'd

135
00:06:22,600 --> 00:06:21,260
call them yeah life-size so this is

136
00:06:24,310 --> 00:06:22,610
exactly what I'd see in the storage

137
00:06:26,680 --> 00:06:24,320
that's right so you walk through rows

138
00:06:28,890 --> 00:06:26,690

and rows and rows of these compact is's

139

00:06:31,410 --> 00:06:28,900

where are all our treasures are stored

140

00:06:33,330 --> 00:06:31,420

treasures there's

141

00:06:38,490 --> 00:06:33,340

walk down the corridor here that the

142

00:06:40,500 --> 00:06:38,500

hallway hello these people they're not

143

00:06:43,350 --> 00:06:40,510

looking well at all we've got some cross

144

00:06:45,780 --> 00:06:43,360

sections of human heads here yeah so

145

00:06:47,970 --> 00:06:45,790

this particular cabinet is about

146

00:06:50,220 --> 00:06:47,980

conserving objects and about the sort of

147

00:06:52,560 --> 00:06:50,230

troubles that a museum runs into so

148

00:06:55,890 --> 00:06:52,570

we've got four different heads here and

149

00:06:58,320 --> 00:06:55,900

each of them has had different wear and

150

00:07:00,210 --> 00:06:58,330

tear based on what material they're made

151

00:07:03,030 --> 00:07:00,220

out of so we start off with this skull

152

00:07:04,950 --> 00:07:03,040

here yeah and tell me what you see on

153

00:07:08,340 --> 00:07:04,960

the top of the skull anything unusual

154

00:07:10,730 --> 00:07:08,350

well slightly discolored go see what's a

155

00:07:15,660 --> 00:07:10,740

little black dots yeah they're actually

156

00:07:18,090 --> 00:07:15,670

holds their insect Bora holes because

157

00:07:20,760 --> 00:07:18,100

that's made out of paper mache and so

158

00:07:23,490 --> 00:07:20,770

hopefully before it came to us rather

159

00:07:24,960 --> 00:07:23,500

than after i think it was before this

160

00:07:30,930 --> 00:07:24,970

would have been a teaching tool in the

161

00:07:33,660 --> 00:07:30,940

university side and it has been lived in

162

00:07:35,760 --> 00:07:33,670

by some phone sex so that's one of the

163

00:07:38,310 --> 00:07:35,770

things that a museum needs to make sure

164

00:07:41,970 --> 00:07:38,320

that we keep all of our stores and our

165

00:07:45,270 --> 00:07:41,980

museum buildings insect free um the next

166

00:07:48,300 --> 00:07:45,280

one along its it's half actual skull and

167

00:07:50,430 --> 00:07:48,310

then plastics years let's walk around

168

00:07:52,500 --> 00:07:50,440

the other side of the cabinet here we

169

00:07:55,230 --> 00:07:52,510

could all my goodness mean it's it's

170

00:08:00,150 --> 00:07:55,240

like Indiana Jones and slightly

171

00:08:02,420 --> 00:08:00,160

terrified slightly terrifying so we've

172

00:08:06,720 --> 00:08:02,430

got real skull but then we've got

173

00:08:09,000 --> 00:08:06,730

plastics and wire in red and in blue to

174

00:08:12,450 --> 00:08:09,010

show veins and arteries running up the

175

00:08:15,060 --> 00:08:12,460

face and the skull and we've got plastic

176

00:08:17,130 --> 00:08:15,070

teeth and some of these have degraded

177

00:08:19,900 --> 00:08:17,140

they all degrade differently over time

178

00:08:22,580 --> 00:08:19,910

and so we all

179

00:08:24,290 --> 00:08:22,590

so true and so we have a whole

180

00:08:28,010 --> 00:08:24,300

department of people in the museum

181

00:08:30,620 --> 00:08:28,020

called the conservators their sole job

182

00:08:32,570 --> 00:08:30,630

is to try and keep all of our objects up

183

00:08:34,850 --> 00:08:32,580

to the standard that they came to us in

184

00:08:37,070 --> 00:08:34,860

so because when we take an object into

185

00:08:39,529 --> 00:08:37,080

the museum what we're committing to is

186

00:08:41,899 --> 00:08:39,539

keeping that object in perpetuity of

187

00:08:44,600 --> 00:08:41,909

course forever of course yes this next

188

00:08:47,180 --> 00:08:44,610

one again paper mache oh very well the

189

00:08:49,040 --> 00:08:47,190

massive crack through the skull is not

190

00:08:51,230 --> 00:08:49,050

meant to be there so that's come from

191

00:08:53,420 --> 00:08:51,240

temperature variation when it was being

192

00:08:56,300 --> 00:08:53,430

stored it would have heated up and

193

00:08:59,000 --> 00:08:56,310

cooled down and over time over decades

194

00:09:00,950 --> 00:08:59,010

that happened so a beautiful it's a

195

00:09:02,240 --> 00:09:00,960

beautiful rendering now just come in the

196

00:09:06,050 --> 00:09:02,250

other side of the cabinet once again

197

00:09:07,850 --> 00:09:06,060

it's it's so well done for paper mache

198

00:09:10,370 --> 00:09:07,860

I'm quite surprised yeah we have some

199

00:09:12,350 --> 00:09:10,380

absolutely gorgeous paper mache models

200

00:09:17,390 --> 00:09:12,360

they are stunning there's a heart that

201
00:09:19,460 --> 00:09:17,400
will take your heart away this guy here

202
00:09:21,890 --> 00:09:19,470
what is please real so that's a real

203
00:09:23,600 --> 00:09:21,900
human skull and that degrades in a

204
00:09:26,840 --> 00:09:23,610
different way but certainly not as much

205
00:09:31,340 --> 00:09:26,850
as paper mache it's not as in danger of

206
00:09:34,130 --> 00:09:31,350
insect population but yet has its own

207
00:09:35,930 --> 00:09:34,140
concerns that we need to ensure that

208
00:09:38,120 --> 00:09:35,940
we're keeping it in a really stable

209
00:09:39,860 --> 00:09:38,130
environment which we do over in our

210
00:09:42,079 --> 00:09:39,870
collection store which is under the next

211
00:09:44,329 --> 00:09:42,089
building along where it's all climate

212
00:09:46,840 --> 00:09:44,339
controlled temperature controlled insect

213
00:09:54,280 --> 00:09:50,350

one theme the next one we come along too

214

00:09:58,150 --> 00:09:54,290

oh it's called cut it well no wonder

215

00:09:59,139 --> 00:09:58,160

we're looking at folks were looking it's

216

00:10:03,550 --> 00:09:59,149

in the middle of the room here they

217

00:10:05,319 --> 00:10:03,560

extend on quite a bit and on red sort of

218

00:10:07,889 --> 00:10:05,329

material going up about eight or nine

219

00:10:10,749 --> 00:10:07,899

feet we have lots of looks like

220

00:10:14,350 --> 00:10:10,759

antiquated surgical equipment we have

221

00:10:18,759 --> 00:10:14,360

bone saws and faucets and all sorts of

222

00:10:21,819 --> 00:10:18,769

clamps and things like that and we also

223

00:10:23,530 --> 00:10:21,829

have an object that when I was so myself

224

00:10:25,180 --> 00:10:23,540

and another curator were pulling

225

00:10:28,900 --> 00:10:25,190

together what objects would go on

226

00:10:31,090 --> 00:10:28,910

display here and we were just having a

227

00:10:33,100 --> 00:10:31,100

look in the collection immersed in

228

00:10:35,290 --> 00:10:33,110

objects and I picked up one of these

229

00:10:37,540 --> 00:10:35,300

little suckers yeah they look like

230

00:10:41,259 --> 00:10:37,550

phases from Star Trek office yeah Oh

231

00:10:45,340 --> 00:10:41,269

finally they were the label red tonsil

232

00:10:48,639 --> 00:10:45,350

guillotine which made me exactly all

233

00:10:50,160 --> 00:10:48,649

that made me made me squeal isn't is

234

00:10:53,040 --> 00:10:50,170

just went

235

00:10:55,710 --> 00:10:53,050

oh well but we have such a gorgeous

236

00:10:57,629 --> 00:10:55,720

array of the design changing over time

237

00:10:59,730 --> 00:10:57,639

so these ones on display in the museum

238

00:11:01,829 --> 00:10:59,740

they're just you type they look a little

239

00:11:04,009 --> 00:11:01,839

bit like a gun but you hook over the

240

00:11:08,280 --> 00:11:04,019

hole over the tonsil and then you eat

241

00:11:10,620 --> 00:11:08,290

guillotine but then you look at

242

00:11:12,990 --> 00:11:10,630

development over time they had two

243

00:11:15,620 --> 00:11:13,000

triggers and the second triggers pulled

244

00:11:18,180 --> 00:11:15,630

out these little pizzas that would

245

00:11:21,050 --> 00:11:18,190

respond to the mall messing around here

246

00:11:23,370 --> 00:11:21,060

it's amazing it's just innovation in

247

00:11:26,939 --> 00:11:23,380

medical instrument making a very awesome

248

00:11:28,949 --> 00:11:26,949

and we've also got a trepanning tool

249

00:11:31,259 --> 00:11:28,959

here which is the first type of

250

00:11:34,560 --> 00:11:31,269

operation that we've got evidence human

251

00:11:38,850 --> 00:11:34,570

beings survived after this is a skull

252

00:11:42,210 --> 00:11:38,860

yeah it's like a hand hand driven skull

253

00:11:45,780 --> 00:11:42,220

yeah yeah screws into it you make a hole

254

00:11:47,610 --> 00:11:45,790

that's right a hole in the skull well it

255

00:11:49,920 --> 00:11:47,620

was actually before it was to access the

256

00:11:52,590 --> 00:11:49,930

brain it was to relieve pressure or to

257

00:11:57,689 --> 00:11:52,600

release spirits you know fake wailing

258

00:11:59,850 --> 00:11:57,699

that was stuck in this car okay that's a

259

00:12:01,680 --> 00:11:59,860

real one well that's that's the real one

260

00:12:05,430 --> 00:12:01,690

it's so interesting and you're right

261

00:12:10,019 --> 00:12:05,440

about the antiquated I mean could book

262

00:12:12,060 --> 00:12:10,029

the centuries ago many years ago doctors

263

00:12:14,340 --> 00:12:12,070

would have artisans make up their

264

00:12:16,290 --> 00:12:14,350

toolkits and then they use them for the

265

00:12:18,300 --> 00:12:16,300

rest of their lives before we knew about

266

00:12:21,420 --> 00:12:18,310

sterilization before we knew about the

267

00:12:23,400 --> 00:12:21,430

germ theory that was and we have some

268

00:12:24,960 --> 00:12:23,410

beautiful examples of boxes that John

269

00:12:27,480 --> 00:12:24,970

would have taken around over here

270

00:12:31,170 --> 00:12:27,490

doctors boxes goodness me there's a sore

271

00:12:33,180 --> 00:12:31,180

there they owe lots of scissors and

272

00:12:35,670 --> 00:12:33,190

clamps and things like that Wow

273

00:12:38,820 --> 00:12:35,680

let's head on down let alone what a

274

00:12:39,990 --> 00:12:38,830

collection what a collection it's a pity

275

00:12:43,170 --> 00:12:40,000

they're sort of like the way they should

276

00:12:45,960 --> 00:12:43,180

oh hello hello I've never seen so many

277

00:12:48,290 --> 00:12:45,970

bottles of pills and potions in my life

278

00:12:53,670 --> 00:12:48,300

I think goodness me what do we have here

279

00:12:56,100 --> 00:12:53,680

so you're why this is our dispenser okay

280

00:12:59,280 --> 00:12:56,110

so this is where we're looking at all

281

00:13:03,660 --> 00:12:59,290

the wonderful glass bottles containers

282

00:13:06,720 --> 00:13:03,670

drugs suppository formers yield formers

283

00:13:09,950 --> 00:13:06,730

scales all the things that chemists use

284

00:13:12,780 --> 00:13:09,960

or sell or when they used to be

285

00:13:16,650 --> 00:13:12,790

apothecaries and they used it exactly

286

00:13:19,380 --> 00:13:16,660

and they used to grind up their own make

287

00:13:21,960 --> 00:13:19,390

up their own drugs I'll be oh my

288

00:13:25,400 --> 00:13:21,970

goodness such he'll be such a good story

289

00:13:29,670 --> 00:13:25,410

here Richard you are going to love it so

290

00:13:33,360 --> 00:13:29,680

biol beans was really popular i think it

291

00:13:35,400 --> 00:13:33,370

was in the 1950s i'm in the united

292

00:13:39,600 --> 00:13:35,410

kingdom and beyond and the story

293

00:13:42,960 --> 00:13:39,610

attached to it was that this scientist

294

00:13:45,150 --> 00:13:42,970

this Australian scientist looked around

295

00:13:47,520 --> 00:13:45,160

and noticed that Australian Aborigines

296

00:13:50,360 --> 00:13:47,530

never got sick ever and so he thought

297

00:13:52,650 --> 00:13:50,370

well I better find this secret and he

298

00:13:55,380 --> 00:13:52,660

communicated with Aboriginal tribes and

299

00:13:57,720 --> 00:13:55,390

they they told him their secret which

300

00:13:59,790 --> 00:13:57,730

was this one particular Australian plant

301
00:14:03,090 --> 00:13:59,800
that meant that they were free from all

302
00:14:06,840 --> 00:14:03,100
illness and he packaged that up into bio

303
00:14:10,860 --> 00:14:06,850
beans and so it was this cure all of

304
00:14:14,100 --> 00:14:10,870
course I'm got taken to court and was

305
00:14:16,730 --> 00:14:14,110
shown in the Supreme Court or the

306
00:14:20,070 --> 00:14:16,740
highest got in the land to be an

307
00:14:21,780 --> 00:14:20,080
absolute fraud this Australian

308
00:14:23,880 --> 00:14:21,790
scientists that he claimed of course

309
00:14:26,670 --> 00:14:23,890
didn't exist of course Australian

310
00:14:29,160 --> 00:14:26,680
Aborigines aren't illness free and have

311
00:14:31,759 --> 00:14:29,170
this amazing so it was just a beautiful

312
00:14:34,119 --> 00:14:31,769
example of complete pseudoscience

313
00:14:36,229 --> 00:14:34,129

when they were marketing a laxative film

314

00:14:40,489 --> 00:14:36,239

but it had a nice little Australian

315

00:14:42,439 --> 00:14:40,499

touch yes it's it's folks if you if you

316

00:14:44,150 --> 00:14:42,449

can picture in your mind something from

317

00:14:47,090 --> 00:14:44,160

your great-grandmother's cover there are

318

00:14:49,039 --> 00:14:47,100

lots of little bottles like i said

319

00:14:50,840 --> 00:14:49,049

before castor oil there's aspirin

320

00:14:54,169 --> 00:14:50,850

bottles it's something like out of the

321

00:14:56,869 --> 00:14:54,179

Wild West drugstore I guess you'd say

322

00:15:01,039 --> 00:14:56,879

it's fascinating and then we move on to

323

00:15:03,859 --> 00:15:01,049

the section where pharmacies started

324

00:15:06,139 --> 00:15:03,869

becoming more like a shopping what we'd

325

00:15:08,869 --> 00:15:06,149

know as a shopping center so it wasn't

326

00:15:10,879 --> 00:15:08,879

just your cast Royals and your actual

327

00:15:13,039 --> 00:15:10,889

drugs but they moved into selling nice

328

00:15:17,929 --> 00:15:13,049

soaps and ladies the lipstick and

329

00:15:20,059 --> 00:15:17,939

cosmetics this is one object that really

330

00:15:23,660 --> 00:15:20,069

interested me it's this beautiful

331

00:15:25,189 --> 00:15:23,670

ceramic lovely jar that says leeches on

332

00:15:27,079 --> 00:15:25,199

the outside once there's money in

333

00:15:28,819 --> 00:15:27,089

Lance's leeches yeah they're gorgeous

334

00:15:30,710 --> 00:15:28,829

something they're gorgeous but they're

335

00:15:34,340 --> 00:15:30,720

very ornate and they came from a

336

00:15:35,600 --> 00:15:34,350

pharmacy and I the only leeches I knew

337

00:15:37,460 --> 00:15:35,610

at the time when I started this

338

00:15:39,379 --> 00:15:37,470

exhibition were the ones when you go

339

00:15:43,309 --> 00:15:39,389

bushwalking and they attach to your leg

340

00:15:47,840 --> 00:15:43,319

I was like why why would anybody store

341

00:15:49,609 --> 00:15:47,850

leeches in that container and so I

342

00:15:51,350 --> 00:15:49,619

called the Australian Museum chatted to

343

00:15:52,850 --> 00:15:51,360

some leech experts over there and I

344

00:15:54,769 --> 00:15:52,860

don't know that there are two types of

345

00:15:55,879 --> 00:15:54,779

leeches there are the terrestrial

346

00:15:57,559 --> 00:15:55,889

leeches that you get when you're

347

00:16:01,369 --> 00:15:57,569

bushwalking and then there are aquatic

348

00:16:04,900 --> 00:16:01,379

leeches and aquatic ledger so both of

349

00:16:07,879 --> 00:16:04,910

them have been in fads that come and go

350

00:16:09,980 --> 00:16:07,889

about bleeding about all sorts of things

351
00:16:13,850 --> 00:16:09,990
leeches have been used for thousands of

352
00:16:15,889 --> 00:16:13,860
years with either evidence or no

353
00:16:21,639 --> 00:16:15,899
evidence so that over time they've been

354
00:16:24,499 --> 00:16:21,649
used to treat obesity mental illness

355
00:16:27,019 --> 00:16:24,509
balancing the humors all of that

356
00:16:28,460 --> 00:16:27,029
complete bump course of course but

357
00:16:32,629 --> 00:16:28,470
they're actually still used in health

358
00:16:35,239 --> 00:16:32,639
and medicine today yeah yeah so mostly

359
00:16:38,389 --> 00:16:35,249
for microsurgery so if you lose a finger

360
00:16:40,460 --> 00:16:38,399
or a nose when they reattach it

361
00:16:42,499 --> 00:16:40,470
sometimes there can be small pools of

362
00:16:45,679 --> 00:16:42,509
blood that gather just underneath that

363
00:16:47,150 --> 00:16:45,689

join and the best way to clear it out so

364

00:16:49,400 --> 00:16:47,160

that you're not going to cut your so you

365

00:16:51,470 --> 00:16:49,410

cause the least amount of damage to the

366

00:16:54,739 --> 00:16:51,480

muscle and the area around that is to

367

00:16:57,079 --> 00:16:54,749

pop a leech on and they suck up the

368

00:16:59,900 --> 00:16:57,089

blood they stimulate arterial growth

369

00:17:04,639 --> 00:16:59,910

back into the region there excellent and

370

00:17:06,919 --> 00:17:04,649

so I somewhat stupidly talked the museum

371

00:17:09,590 --> 00:17:06,929

into allowing us to have live lectures

372

00:17:13,730 --> 00:17:09,600

which are also in the exhibition wait

373

00:17:20,460 --> 00:17:13,740

and my stupid idea means that I have to

374

00:17:24,429 --> 00:17:22,840

coming up after the break we wander a

375

00:17:26,710 --> 00:17:24,439

little bit further around this

376

00:17:29,140 --> 00:17:26,720

fascinating exhibition with that Chilean

377

00:17:35,200 --> 00:17:29,150

Frankie we come across some quackery and

378

00:17:41,480 --> 00:17:35,210

discover some live leeches on Manor

379

00:17:41,490 --> 00:17:53,220

episode 21 with Tim Ferguson

380

00:17:59,610 --> 00:17:55,860

ring the bell do the thing pull it on

381

00:18:02,400 --> 00:17:59,620

and make the noise it goes so 21 show 21

382

00:18:04,950 --> 00:18:02,410

with the Tim's delicate condition you

383

00:18:06,450 --> 00:18:04,960

have two enemies late nights and heat is

384

00:18:08,490 --> 00:18:06,460

that correct that's right a hot late

385

00:18:11,039 --> 00:18:08,500

night forget it is that because it makes

386

00:18:13,289 --> 00:18:11,049

the brain go fast during the EMS doesn't

387

00:18:15,840 --> 00:18:13,299

like that what is it well what happens I

388

00:18:19,409 --> 00:18:15,850

asked a neurologist and she said what

389

00:18:22,500 --> 00:18:19,419

happens is like anything a brain expands

390

00:18:24,270 --> 00:18:22,510

in heat as well and nerves expand in

391

00:18:27,240 --> 00:18:24,280

heat so what happens is your nerves

392

00:18:29,190 --> 00:18:27,250

actually get bigger not huge of course

393

00:18:31,440 --> 00:18:29,200

but just that little difference when

394

00:18:33,450 --> 00:18:31,450

you're dealing with nerves as stupid as

395

00:18:35,850 --> 00:18:33,460

my nerves well it's like dealing with

396

00:18:37,560 --> 00:18:35,860

people from North Queensland and hello

397

00:18:42,870 --> 00:18:37,570

to all those listeners hell are those

398

00:18:48,180 --> 00:18:42,880

fans but you know what i'm talking about

399

00:19:10,140 --> 00:18:48,190

bunga bunga or as we like to say on may

400

00:19:11,370 --> 00:19:10,150

not condone are you hey you now silly

401
00:19:13,669 --> 00:19:11,380
this looks like something out of World

402
00:19:15,600 --> 00:19:13,679
War two what's going on here this

403
00:19:18,390 --> 00:19:15,610
precious little thing is called the

404
00:19:20,760 --> 00:19:18,400
store pedo edge it was developed in the

405
00:19:23,090 --> 00:19:20,770
1950s here in Australia by the

406
00:19:25,740 --> 00:19:23,100
Australian Red Cross blood service and

407
00:19:28,650 --> 00:19:25,750
Reverend John Flynn was involved as well

408
00:19:31,080 --> 00:19:28,660
who created the Australian flying

409
00:19:33,419 --> 00:19:31,090
doctors and what they were trying to

410
00:19:36,740 --> 00:19:33,429
address is that it's really hard in

411
00:19:40,049 --> 00:19:36,750
Australia because it's such a massive

412
00:19:42,060 --> 00:19:40,059
continent that it's hard to get medical

413
00:19:45,659 --> 00:19:42,070

supplies to people who are living

414

00:19:47,580 --> 00:19:45,669

remotely or orally in Australia and so

415

00:19:50,909 --> 00:19:47,590

this is the little sucker that they came

416

00:19:54,080 --> 00:19:50,919

up with to address that problem so this

417

00:19:56,510 --> 00:19:54,090

it looks like a bomb yeah with a parent

418

00:19:59,480 --> 00:19:56,520

yes so they designed it exactly like

419

00:20:03,860 --> 00:19:59,490

that it's got a conical knows it's about

420

00:20:06,140 --> 00:20:03,870

two foot long and about 15 20

421

00:20:08,810 --> 00:20:06,150

centimeters in diameter it's made out of

422

00:20:11,360 --> 00:20:08,820

cardboard Richard so you open up the top

423

00:20:13,820 --> 00:20:11,370

and you get two glass one liter jars of

424

00:20:15,890 --> 00:20:13,830

blood or plasma and you wrap them in a

425

00:20:18,019 --> 00:20:15,900

blanket and you pop them in there with a

426

00:20:20,600 --> 00:20:18,029

diffusion kit and then you chuck them

427

00:20:25,130 --> 00:20:20,610

out of a plane and what they like and I

428

00:20:27,289 --> 00:20:25,140

I say that by but the ability to just

429

00:20:28,730 --> 00:20:27,299

chuck them out of a plane was really

430

00:20:30,830 --> 00:20:28,740

important to them because they didn't

431

00:20:33,769 --> 00:20:30,840

want it to just be tied to military or

432

00:20:36,139 --> 00:20:33,779

people with special skills who knew how

433

00:20:38,840 --> 00:20:36,149

to chuck things out of a plane correctly

434

00:20:41,299 --> 00:20:38,850

this this torpedo it can be given to

435

00:20:42,919 --> 00:20:41,309

someone who's a hobby pilot on to

436

00:20:46,100 --> 00:20:42,929

someone who's a farmer and has an a

437

00:20:48,350 --> 00:20:46,110

plane for irrigation to anyone it really

438

00:20:50,120 --> 00:20:48,360

meant that the we could get medical

439

00:20:53,210 --> 00:20:50,130

supplies out quickly and without

440

00:20:55,730 --> 00:20:53,220

specialist training to people in really

441

00:20:59,000 --> 00:20:55,740

remote areas of Australia it's an

442

00:21:02,060 --> 00:20:59,010

awesome innovation in medical instrument

443

00:21:03,919 --> 00:21:02,070

making right I will walk down a little

444

00:21:06,889 --> 00:21:03,929

bit further now passed some skeletons

445

00:21:09,649 --> 00:21:06,899

and some more giant eyeballs and giant

446

00:21:11,180 --> 00:21:09,659

ears and not well sorts of things and on

447

00:21:14,510 --> 00:21:11,190

the other side of the room here

448

00:21:16,789 --> 00:21:14,520

something of very very particular

449

00:21:20,110 --> 00:21:16,799

interest to myself and skeptics unless

450

00:21:22,070 --> 00:21:20,120

I'm sure we have an actual iron lung

451

00:21:26,269 --> 00:21:22,080

yeah well actually this is the

452

00:21:28,909 --> 00:21:26,279

Australian iron lung which is even

453

00:21:32,149 --> 00:21:28,919

cooler than the actual iron lung so and

454

00:21:35,510 --> 00:21:32,159

the island was invented and developed in

455

00:21:39,440 --> 00:21:35,520

America but it truly was it lived up to

456

00:21:42,289 --> 00:21:39,450

its name it was huge it was heavy it it

457

00:21:44,149 --> 00:21:42,299

took up entire wings like large spaces

458

00:21:45,919 --> 00:21:44,159

in hospitals and could only be on the

459

00:21:48,110 --> 00:21:45,929

bottom floor because it was so heavy

460

00:21:50,930 --> 00:21:48,120

right and that meant that that part of

461

00:21:54,560 --> 00:21:50,940

the hospital was your iron lung in

462

00:21:57,409 --> 00:21:54,570

perpetuity these brothers Australian

463

00:21:59,450 --> 00:21:57,419

brothers in south australia they were

464

00:22:00,350 --> 00:21:59,460

medical instrument makers the Baath

465

00:22:04,700 --> 00:22:00,360

brothers

466

00:22:06,530 --> 00:22:04,710

um and they looked at the design and

467

00:22:09,799 --> 00:22:06,540

went yeah that's great we understand

468

00:22:11,570 --> 00:22:09,809

what it's doing but I think we can do a

469

00:22:14,030 --> 00:22:11,580

better job and they built it out of

470

00:22:17,000 --> 00:22:14,040

lightweight wood and put it on wheels

471

00:22:20,870 --> 00:22:17,010

and made the world's first portable

472

00:22:23,390 --> 00:22:20,880

respirator so the Australian iron lung

473

00:22:24,919 --> 00:22:23,400

the then took off worldwide and because

474

00:22:27,710 --> 00:22:24,929

it is on wheels it's got a little wheel

475

00:22:30,799 --> 00:22:27,720

platform here it's not as big as you'd

476

00:22:34,070 --> 00:22:30,809

think of an iron lung and hanging off

477

00:22:36,380 --> 00:22:34,080

the end here we've got what looks like a

478

00:22:39,530 --> 00:22:36,390

giant pair of bellows which it would be

479

00:22:41,570 --> 00:22:39,540

the year the breathing intake that's

480

00:22:44,360 --> 00:22:41,580

right so that creates the vacuum in

481

00:22:47,450 --> 00:22:44,370

inside the cabinet itself because yeah

482

00:22:49,760 --> 00:22:47,460

so they invented this in the 1930s in

483

00:22:52,610 --> 00:22:49,770

Adelaide when Australia had an outbreak

484

00:22:55,909 --> 00:22:52,620

of polio and one of the things polio can

485

00:22:57,980 --> 00:22:55,919

do is that it paralyzes your muscles and

486

00:23:01,039 --> 00:22:57,990

if it paralyzes your respiratory muscles

487

00:23:02,870 --> 00:23:01,049

you can't breathe so people get inside

488

00:23:05,150 --> 00:23:02,880

this the only thing popping out of the

489

00:23:08,810 --> 00:23:05,160

wooden box is their head and then the

490

00:23:11,600 --> 00:23:08,820

bellows creates the vacuum inside the

491

00:23:14,180 --> 00:23:11,610

wooden box that pulls your chest up and

492

00:23:16,520 --> 00:23:14,190

down for you so it's amazing isn't it it

493

00:23:18,020 --> 00:23:16,530

is it takes place and to see one here

494

00:23:20,570 --> 00:23:18,030

and to know that that's what was

495

00:23:22,400 --> 00:23:20,580

happening inside poor people lying there

496

00:23:24,020 --> 00:23:22,410

and their chest was being expanded and

497

00:23:27,289 --> 00:23:24,030

contracted because of the vacuum inside

498

00:23:29,630 --> 00:23:27,299

and what and I've mentioned this on the

499

00:23:31,820 --> 00:23:29,640

skeptics done before but it's one of the

500

00:23:34,490 --> 00:23:31,830

things that's very sobering but to see

501
00:23:37,789 --> 00:23:34,500
one you have to go to a museum and

502
00:23:40,610 --> 00:23:37,799
that's so important to remember yeah it

503
00:23:42,650 --> 00:23:40,620
is and this is a stir again Australian

504
00:23:44,270 --> 00:23:42,660
innovation that transformed people's

505
00:23:46,070 --> 00:23:44,280
lives because you didn't recover from

506
00:23:48,409 --> 00:23:46,080
this very quickly some people spent

507
00:23:51,710 --> 00:23:48,419
months years the rest of their lives

508
00:23:53,630 --> 00:23:51,720
these wheels the lightweight box meant

509
00:23:56,060 --> 00:23:53,640
that they could go home or they could be

510
00:23:58,150 --> 00:23:56,070
wheeled out into the Sun but lots of

511
00:24:00,210 --> 00:23:58,160
people lived for years in these things

512
00:24:02,880 --> 00:24:00,220
staggering to think yeah

513
00:24:04,200 --> 00:24:02,890

oh and I'm so pleased that it's part of

514

00:24:05,700 --> 00:24:04,210

the exhibition now we'll just keep

515

00:24:07,440 --> 00:24:05,710

walking down lots of kids running around

516

00:24:09,720 --> 00:24:07,450

here which is really good to see we're

517

00:24:12,000 --> 00:24:09,730

passing some microscopes Oh what wow

518

00:24:14,510 --> 00:24:12,010

what a splendid selection of

519

00:24:16,710 --> 00:24:14,520

classic-looking microscopes telly that's

520

00:24:18,210 --> 00:24:16,720

there's something that I'm sort of

521

00:24:19,980 --> 00:24:18,220

remember from high school but the

522

00:24:22,860 --> 00:24:19,990

brilliant old ones like you seeing me

523

00:24:24,330 --> 00:24:22,870

all the classic paintings of early

524

00:24:26,820 --> 00:24:24,340

scientists and things like that wow what

525

00:24:28,649 --> 00:24:26,830

a collection this looks like next to it

526

00:24:30,510 --> 00:24:28,659

looks like a leg caliper yeah that's

527

00:24:32,520 --> 00:24:30,520

exactly what it is so we all your yeah

528

00:24:34,289 --> 00:24:32,530

so we've got an older leg caliper for a

529

00:24:37,860 --> 00:24:34,299

child and then when you look up above it

530

00:24:42,480 --> 00:24:37,870

you see prosthetics as they're made

531

00:24:45,029 --> 00:24:42,490

today for people who want to get a yeah

532

00:24:48,419 --> 00:24:45,039

much simplified and also less

533

00:24:52,799 --> 00:24:48,429

restrictive yeah passing a collection of

534

00:24:54,210 --> 00:24:52,809

Temple stick what a set of choppers look

535

00:24:58,260 --> 00:24:54,220

at that false teeth everywhere it's

536

00:25:00,419 --> 00:24:58,270

better that's over here are two that

537

00:25:02,700 --> 00:25:00,429

were designed for one purpose and then

538

00:25:05,370 --> 00:25:02,710

used for another ash grinder it says

539

00:25:08,490 --> 00:25:05,380

your old faithful now we didn't write

540

00:25:12,090 --> 00:25:08,500

Old Faithful on it the butt so this

541

00:25:15,720 --> 00:25:12,100

machine you was made and designed to

542

00:25:18,899 --> 00:25:15,730

grind coffee beans right then it was

543

00:25:21,720 --> 00:25:18,909

purchased by crematorium because what

544

00:25:26,399 --> 00:25:21,730

they found was that when they burnt

545

00:25:29,610 --> 00:25:26,409

someone when they cremated someone the

546

00:25:31,919 --> 00:25:29,620

human body has you know simony chocolate

547

00:25:34,140 --> 00:25:31,929

yeah and and so it didn't all end up

548

00:25:36,090 --> 00:25:34,150

into a fine powder so they were handing

549

00:25:38,370 --> 00:25:36,100

back earns to people that sometimes

550

00:25:40,230 --> 00:25:38,380

rattled with a little bit of bone still

551
00:25:41,220 --> 00:25:40,240
remaining and that's not a great

552
00:25:43,860 --> 00:25:41,230
experience

553
00:25:46,590 --> 00:25:43,870
laughs it's not a good strength for

554
00:25:49,470 --> 00:25:46,600
their family so they made it a policy

555
00:25:51,090 --> 00:25:49,480
that after being cremated people's

556
00:25:53,580 --> 00:25:51,100
remains were put through here so that

557
00:25:55,380 --> 00:25:53,590
they were consistent so that they made

558
00:25:59,280 --> 00:25:55,390
sure that it came out as a fine powder

559
00:26:02,400 --> 00:25:59,290
for people to take home in an urn so

560
00:26:05,159 --> 00:26:02,410
that's you know one transformative

561
00:26:08,280 --> 00:26:05,169
design the next one is one of my

562
00:26:11,370 --> 00:26:08,290
favorites oh goodness me folks we're

563
00:26:15,419 --> 00:26:11,380

looking at a celeb and beautiful

564

00:26:18,350 --> 00:26:15,429

beautiful ceramic mortuary table good so

565

00:26:21,299 --> 00:26:18,360

heavens with little dreams here for the

566

00:26:24,180 --> 00:26:21,309

thule fluids you I'm so on the top of

567

00:26:27,539 --> 00:26:24,190

the slab it's just it has that has these

568

00:26:30,960 --> 00:26:27,549

beautiful runnels so there's beautiful

569

00:26:33,780 --> 00:26:30,970

ways of and it's on a very slight feels

570

00:26:35,640 --> 00:26:33,790

like Art Deco it does it's I think it's

571

00:26:38,700 --> 00:26:35,650

such a beautiful object and then it has

572

00:26:43,560 --> 00:26:38,710

this drum a basin at the bottom all made

573

00:26:45,409 --> 00:26:43,570

out of white ceramic perfect so it all

574

00:26:49,400 --> 00:26:45,419

the small hospitals used to do their own

575

00:26:52,110 --> 00:26:49,410

autopsies and then in the 1950s we

576

00:26:56,760 --> 00:26:52,120

centralized all the autopsies into one

577

00:26:58,500 --> 00:26:56,770

place a coroner's so all of the

578

00:27:00,630 --> 00:26:58,510

hospitals started smashing up they

579

00:27:02,310 --> 00:27:00,640

didn't need these ceramic tables anymore

580

00:27:04,409 --> 00:27:02,320

the mortuary tables they were doing

581

00:27:07,140 --> 00:27:04,419

autopsies so they just started disposing

582

00:27:11,340 --> 00:27:07,150

of them this one nurse begged them not

583

00:27:13,500 --> 00:27:11,350

to smash this particular ceramic table

584

00:27:17,520 --> 00:27:13,510

up and they dropped it at her house and

585

00:27:20,100 --> 00:27:17,530

she used it for the next 40 years as a

586

00:27:22,710 --> 00:27:20,110

potting bench because they look at it

587

00:27:24,750 --> 00:27:22,720

yes I can understand that right there's

588

00:27:26,909 --> 00:27:24,760

got drainage it's got it absolutely it's

589

00:27:29,520 --> 00:27:26,919

a good drainage it does it doesn't get

590

00:27:33,000 --> 00:27:29,530

affected by the environmental elements

591

00:27:35,190 --> 00:27:33,010

it's at the right height it's a

592

00:27:37,350 --> 00:27:35,200

beautiful objects to have in your

593

00:27:39,020 --> 00:27:37,360

backyard it's stunning you could have it

594

00:27:41,510 --> 00:27:39,030

as a bar couldn't you

595

00:27:45,470 --> 00:27:41,520

I could see much sitting up sitting

596

00:27:47,300 --> 00:27:45,480

about to have a few drinks I think you

597

00:27:49,400 --> 00:27:47,310

just created a new event all right

598

00:27:51,650 --> 00:27:49,410

things you have here my good is it all

599

00:27:53,030 --> 00:27:51,660

right we'll come passing so many think

600

00:27:54,650 --> 00:27:53,040

we can't talk about everything here but

601
00:27:56,570 --> 00:27:54,660
there are so many things here folks it

602
00:27:59,030 --> 00:27:56,580
just goes on and on and on lots of

603
00:28:03,200 --> 00:27:59,040
bizarre-looking medical equipment and

604
00:28:05,960 --> 00:28:03,210
little packages of things and it's a

605
00:28:09,680 --> 00:28:05,970
doll inner know what being led down here

606
00:28:11,780 --> 00:28:09,690
or no well what do we have here so we

607
00:28:14,720 --> 00:28:11,790
have one area of this exhibition which

608
00:28:18,460 --> 00:28:14,730
is called question it and it is our case

609
00:28:22,370 --> 00:28:18,470
of historical and contemporary

610
00:28:24,440 --> 00:28:22,380
pseudoscience goodness me so things that

611
00:28:26,810 --> 00:28:24,450
try to use the language of science but

612
00:28:28,970 --> 00:28:26,820
have no evidence or make outrageous

613
00:28:31,940 --> 00:28:28,980

claims that can't be tested or when

614

00:28:34,700 --> 00:28:31,950

tested are shown to be absolutely false

615

00:28:38,090 --> 00:28:34,710

this is our way of tipping our hat to

616

00:28:40,730 --> 00:28:38,100

what we've had in the collection yeah

617

00:28:42,770 --> 00:28:40,740

from a long time ago roughly being used

618

00:28:45,710 --> 00:28:42,780

a look at some of these we start with

619

00:28:47,810 --> 00:28:45,720

the copper bracelet for rheumatism and

620

00:28:49,760 --> 00:28:47,820

all that sort of stuff which is still

621

00:28:51,860 --> 00:28:49,770

sold in some killer shops today I've

622

00:28:54,220 --> 00:28:51,870

been doing a lot of this is still sold

623

00:28:57,680 --> 00:28:54,230

in chemist shops one of our most recent

624

00:29:00,080 --> 00:28:57,690

examples is the amber necklace Abba

625

00:29:03,500 --> 00:29:00,090

teething necklace which I've done the

626

00:29:06,440 --> 00:29:03,510

label that says it defines it as used

627

00:29:11,690 --> 00:29:06,450

for placebo effect in parents during

628

00:29:15,530 --> 00:29:11,700

toddler teabing which we've had some one

629

00:29:17,540 --> 00:29:15,540

photograph and tweet about saying what

630

00:29:20,960 --> 00:29:17,550

was it I think the tweeter said that it

631

00:29:22,700 --> 00:29:20,970

was pleasantly blunt now I must say I'm

632

00:29:24,140 --> 00:29:22,710

quite chuffed tilly i am quite job

633

00:29:26,030 --> 00:29:24,150

because if i look a little bit further

634

00:29:29,030 --> 00:29:26,040

in the cabinet i can see something that

635

00:29:31,430 --> 00:29:29,040

i actually purchased myself that's a few

636

00:29:34,400 --> 00:29:31,440

years back we have the ion energy band

637

00:29:36,320 --> 00:29:34,410

and here it is it a museum I love it I

638

00:29:38,090 --> 00:29:36,330

love it but next to it is a power

639

00:29:40,430 --> 00:29:38,100

balance band too which is really good to

640

00:29:45,190 --> 00:29:40,440

see ya I just think that it's really

641

00:29:49,250 --> 00:29:45,200

important for us to document these

642

00:29:51,740 --> 00:29:49,260

incredibly questionable yeah well just

643

00:29:53,780 --> 00:29:51,750

but also you know the loads of people

644

00:29:55,940 --> 00:29:53,790

got involved in this it was a big

645

00:29:57,950 --> 00:29:55,950

feature huge and I think that that's

646

00:29:59,870 --> 00:29:57,960

important for us to keep out he's really

647

00:30:01,370 --> 00:29:59,880

gonna remember that yeah and I love the

648

00:30:03,350 --> 00:30:01,380

fact that you've got too many candles in

649

00:30:06,050 --> 00:30:03,360

the back oh they are one of my personal

650

00:30:07,880 --> 00:30:06,060

favorite hated things they're amazing

651
00:30:10,100 --> 00:30:07,890
and homeopathy I'm absolutely delighted

652
00:30:12,080 --> 00:30:10,110
folks in fact I'm we might even in

653
00:30:13,970 --> 00:30:12,090
crystal ball and a Christian just a

654
00:30:15,680 --> 00:30:13,980
puppet that's a beautiful crystal ball

655
00:30:18,140 --> 00:30:15,690
we might get a snap of this for the

656
00:30:20,360 --> 00:30:18,150
archive to misfit allowed display Oh in

657
00:30:21,710 --> 00:30:20,370
Oregon's Round the other side we can go

658
00:30:23,360 --> 00:30:21,720
and have a look at them let's have a

659
00:30:26,210 --> 00:30:23,370
look at the office so it's not a word

660
00:30:28,310 --> 00:30:26,220
now there's a transparent human at the

661
00:30:31,550 --> 00:30:28,320
end but will get will she's not looking

662
00:30:33,550 --> 00:30:31,560
too well I can see right through a body

663
00:30:35,720 --> 00:30:33,560

being all right through a 70 year old

664

00:30:38,030 --> 00:30:35,730

seriously it's everything wow that's

665

00:30:39,620 --> 00:30:38,040

impressive and we just come round the

666

00:30:41,660 --> 00:30:39,630

other side there's all sorts of pills

667

00:30:45,710 --> 00:30:41,670

here on display other interesting

668

00:30:48,680 --> 00:30:45,720

medical devices ora ora goggles or a

669

00:30:51,050 --> 00:30:48,690

research kid good heavens yeah from the

670

00:30:53,660 --> 00:30:51,060

metaphysical research group in the

671

00:30:57,140 --> 00:30:53,670

United Kingdom and they come with lovely

672

00:30:59,150 --> 00:30:57,150

goggles that look like oh I can see them

673

00:31:01,340 --> 00:30:59,160

they look just like old-fashioned world

674

00:31:04,450 --> 00:31:01,350

war one pilot goggles that's right or a

675

00:31:07,790 --> 00:31:04,460

gobble oh my and then you slot in

676
00:31:10,460 --> 00:31:07,800
basically colored cellophane yes so that

677
00:31:13,220 --> 00:31:10,470
it helps you to distill people's color

678
00:31:15,140 --> 00:31:13,230
or arm but that's why they vent their

679
00:31:17,570 --> 00:31:15,150
place right here in the really and it

680
00:31:18,650 --> 00:31:17,580
also got a phrenology head here which is

681
00:31:21,710 --> 00:31:18,660
a classic thing I've seen that many

682
00:31:23,360 --> 00:31:21,720
times and what's this fascinating box

683
00:31:25,640 --> 00:31:23,370
here's all sorts of little instruments

684
00:31:27,590 --> 00:31:25,650
in silences yeah it in very much goes

685
00:31:31,190 --> 00:31:27,600
with their phrenology it's

686
00:31:33,080 --> 00:31:31,200
cranium it up so these I see it fits

687
00:31:35,090 --> 00:31:33,090
around the hair and then it measures all

688
00:31:37,070 --> 00:31:35,100

of your bumps and yeah and then we'll

689

00:31:40,820 --> 00:31:37,080

know whether or not you're a criminal of

690

00:31:42,440 --> 00:31:40,830

course I folks it's worth it to come

691

00:31:44,720 --> 00:31:42,450

here and look at this one counter here

692

00:31:47,779 --> 00:31:44,730

which has the quackery and so on it's

693

00:31:49,340 --> 00:31:47,789

it's so so interesting so interesting I

694

00:31:50,750 --> 00:31:49,350

think we've got time for a few more

695

00:31:55,070 --> 00:31:50,760

things will just walk down the other

696

00:31:58,700 --> 00:31:55,080

side here again passing passing wooden

697

00:32:01,779 --> 00:31:58,710

legs and put in here wooden teeth and

698

00:32:04,640 --> 00:32:01,789

all plastic teeth lots lots of teeth ah

699

00:32:07,370 --> 00:32:04,650

but boy I don't have a look at this with

700

00:32:10,520 --> 00:32:07,380

well that is creepy we have a little

701
00:32:12,890 --> 00:32:10,530
display box here full of eyes or peeping

702
00:32:15,190 --> 00:32:12,900
out at us that's right I think which

703
00:32:18,020 --> 00:32:15,200
ones like mine the top right are these

704
00:32:19,909 --> 00:32:18,030
that's pretty that's nightmare stuff

705
00:32:22,190 --> 00:32:19,919
that is no that's the leeches are just

706
00:32:24,770 --> 00:32:22,200
over to your right oh we got to wear

707
00:32:27,770 --> 00:32:24,780
let's have a look after you walking over

708
00:32:31,190 --> 00:32:27,780
now pastor Skelton mind oh hello we've

709
00:32:34,340 --> 00:32:31,200
got a little tank here and it's a leech

710
00:32:37,460 --> 00:32:34,350
tank just at the back in between the

711
00:32:39,049 --> 00:32:37,470
black and the plans I just straining now

712
00:32:40,690 --> 00:32:39,059
to see with these leeches are there a

713
00:32:44,330 --> 00:32:40,700

little bit hard to see because they are

714

00:32:48,419 --> 00:32:44,340

they are hidden away in black stripe ian

715

00:32:54,820 --> 00:32:51,370

hiding in the corner there and how often

716

00:32:56,590 --> 00:32:54,830

are they said well they don't have to

717

00:32:59,700 --> 00:32:56,600

only have to be fed once a year

718

00:33:02,380 --> 00:32:59,710

technically but because they're

719

00:33:04,840 --> 00:33:02,390

predators I didn't think that that was

720

00:33:06,460 --> 00:33:04,850

fair because they're creatures in our

721

00:33:09,519 --> 00:33:06,470

care and they haven't got anything to

722

00:33:13,570 --> 00:33:09,529

hunt or to prey on until I was planning

723

00:33:17,139 --> 00:33:13,580

to feed them once a month after the

724

00:33:19,899 --> 00:33:17,149

first time I fed them on me on my hands

725

00:33:22,870 --> 00:33:19,909

I decided maybe once every three months

726

00:33:26,350 --> 00:33:22,880

we'd be all right and then after the

727

00:33:30,370 --> 00:33:26,360

second time I fed them which by the way

728

00:33:32,680 --> 00:33:30,380

it turns out leeches have variable

729

00:33:34,840 --> 00:33:32,690

skills some of them are really good at

730

00:33:37,299 --> 00:33:34,850

feeding they do it quickly cleanly

731

00:33:40,810 --> 00:33:37,309

efficiently like recipes really yes and

732

00:33:44,289 --> 00:33:40,820

suffer them and not so great but they

733

00:33:45,970 --> 00:33:44,299

let it they've got three jaws that the

734

00:33:51,630 --> 00:33:45,980

the bite mark that they leave on you is

735

00:33:54,100 --> 00:33:51,640

a perfect capital y and it is very and

736

00:33:59,950 --> 00:33:54,110

so it's the three draws coming together

737

00:34:01,149 --> 00:33:59,960

it's very clean it's it doesn't itch

738

00:34:04,659 --> 00:34:01,159

because the wonderful thing about

739

00:34:07,870 --> 00:34:04,669

aquatic creatures is that they have they

740

00:34:08,829 --> 00:34:07,880

use different the completely different

741

00:34:10,839 --> 00:34:08,839

to ones that you get when you're

742

00:34:15,609 --> 00:34:10,849

bushwalking so they do not each at all

743

00:34:17,770 --> 00:34:15,619

um and it only hurts while they are

744

00:34:19,570 --> 00:34:17,780

attaching while they're ramming those

745

00:34:22,359 --> 00:34:19,580

three drawers through your flesh as

746

00:34:23,800 --> 00:34:22,369

you're looking at them is the only time

747

00:34:26,020 --> 00:34:23,810

that it hurts but it's just like little

748

00:34:29,680 --> 00:34:26,030

needles you don't want to volunteer to

749

00:34:33,129 --> 00:34:29,690

be the blood giver Frankie Daniela I can

750

00:34:34,990 --> 00:34:33,139

understand we're passing a lots of

751

00:34:35,970 --> 00:34:35,000

skeleton see lots of displays of bones

752

00:34:38,889 --> 00:34:35,980

and

753

00:34:41,250 --> 00:34:38,899

it's a very bizarre baby in a womb here

754

00:34:46,089 --> 00:34:41,260

but it looks like it was done by a

755

00:34:48,399 --> 00:34:46,099

ten-year-old it's very bizarre it's

756

00:34:51,069 --> 00:34:48,409

called the obstetric phantom so it is

757

00:34:53,649 --> 00:34:51,079

what was used to train male doctors

758

00:34:56,409 --> 00:34:53,659

about how to deliver babies without

759

00:34:59,020 --> 00:34:56,419

needing to have that inconvenient thing

760

00:35:00,849 --> 00:34:59,030

of a woman in the room and we're not

761

00:35:02,349 --> 00:35:00,859

looking at the business end of it no

762

00:35:03,910 --> 00:35:02,359

we're not no we're looking from the top

763

00:35:07,750 --> 00:35:03,920

I must say it's like a cross section

764

00:35:09,849 --> 00:35:07,760

lots of models of internal bits of humor

765

00:35:12,940 --> 00:35:09,859

got the ear canal done lovely there's a

766

00:35:15,099 --> 00:35:12,950

heart just back there coming around here

767

00:35:18,069 --> 00:35:15,109

more kids coming through which is good

768

00:35:20,890 --> 00:35:18,079

to see hello hello origami oh yeah you

769

00:35:24,160 --> 00:35:20,900

should have told me oh I can't believe

770

00:35:26,470 --> 00:35:24,170

that I didn't yes this is origami of a

771

00:35:29,079 --> 00:35:26,480

heart that's a no regarding gummy of the

772

00:35:30,700 --> 00:35:29,089

skull who's mad at home I'll have to

773

00:35:32,109 --> 00:35:30,710

come back and make some that's really

774

00:35:33,609 --> 00:35:32,119

cool and the kid there are kids right

775

00:35:35,980 --> 00:35:33,619

now as we speak sitting at the table

776

00:35:38,650 --> 00:35:35,990

making origami hearts and skulls that is

777

00:35:40,569 --> 00:35:38,660

very cool indeed and we're coming right

778

00:35:42,130 --> 00:35:40,579

down to the other end of the the

779

00:35:44,109 --> 00:35:42,140

exhibition now on the other side to

780

00:35:47,109 --> 00:35:44,119

where we were before lots of boxes and

781

00:35:48,609 --> 00:35:47,119

hinkson the 30s I'm sure my mum would

782

00:35:50,349 --> 00:35:48,619

would look at this cabinet and say oh

783

00:35:52,990 --> 00:35:50,359

yes I remember all this sort of stuff

784

00:35:54,250 --> 00:35:53,000

there's lots of soap here ya and I must

785

00:35:56,380 --> 00:35:54,260

say I'm quite surprised because it

786

00:35:58,390 --> 00:35:56,390

you've got lots of varieties very old

787

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

soaps from the 20s 30s 40s maybe it

788

00:36:03,069 --> 00:36:00,410

looks like it's all unused yeah

789

00:36:05,920 --> 00:36:03,079

absolutely that's generally what museums

790

00:36:08,019 --> 00:36:05,930

do we do our best to keep examples of

791

00:36:11,829 --> 00:36:08,029

things in their whole form as well as a

792

00:36:14,559 --> 00:36:11,839

lot of these are just the boxes so not

793

00:36:16,390 --> 00:36:14,569

they're hopeful yep goanna royal I you

794

00:36:19,569 --> 00:36:16,400

must get people coming here the older

795

00:36:21,039 --> 00:36:19,579

generation and just remembering lots of

796

00:36:24,220 --> 00:36:21,049

things that you have on display unit

797

00:36:26,529 --> 00:36:24,230

absolutely not only in this dispense it

798

00:36:28,720 --> 00:36:26,539

about chemists but one section we didn't

799

00:36:31,029 --> 00:36:28,730

get to talk about was contraception

800

00:36:32,500 --> 00:36:31,039

we've got all these pills and a lot of

801
00:36:34,569 --> 00:36:32,510
the time we have women standing there

802
00:36:37,089 --> 00:36:34,579
going oh I used to check that one oh and

803
00:36:39,849 --> 00:36:37,099
I still know 10 Diane yep that's been

804
00:36:41,650 --> 00:36:39,859
it's so that's lovely as well

805
00:36:44,410 --> 00:36:41,660
so all different generations have things

806
00:36:47,559 --> 00:36:44,420
to remember in terms of perimeter now

807
00:36:49,720 --> 00:36:47,569
what nearly at the end now we've risked

808
00:36:51,609 --> 00:36:49,730
a lot here because we can't possibly see

809
00:36:53,920 --> 00:36:51,619
everything as far too much to see lots

810
00:36:56,499 --> 00:36:53,930
of more on potions and pills here but

811
00:37:00,069 --> 00:36:56,509
down the bottom we've got these nine

812
00:37:01,749 --> 00:37:00,079
amazingly big blue bottles and they look

813
00:37:03,880 --> 00:37:01,759

like something out of a movie profits I

814

00:37:06,940 --> 00:37:03,890

don't know we're just spending over to

815

00:37:09,220 --> 00:37:06,950

sit there yes that they were used by

816

00:37:12,670 --> 00:37:09,230

chemists to store large amount as own

817

00:37:15,339 --> 00:37:12,680

particular yeah the huge potions they

818

00:37:18,849 --> 00:37:15,349

look great it's just like okay I'm gonna

819

00:37:22,749 --> 00:37:18,859

work it out you really are more medical

820

00:37:24,249 --> 00:37:22,759

hacking and chopping and all sorts of

821

00:37:25,900 --> 00:37:24,259

things here we've got some old movies

822

00:37:28,630 --> 00:37:25,910

they're showing on the yeah we've got

823

00:37:32,620 --> 00:37:28,640

some old ads showing things that right

824

00:37:36,690 --> 00:37:32,630

back old aspirin ads panadol ads

825

00:37:40,420 --> 00:37:36,700

band-aid ads things that really will

826

00:37:43,180 --> 00:37:40,430

sparks it enables the woman gulping down

827

00:37:44,289 --> 00:37:43,190

her first row it says and I noticed on

828

00:37:47,259 --> 00:37:44,299

the wall back there was a big thing for

829

00:37:49,269 --> 00:37:47,269

banks yes Beck still on sale no

830

00:37:53,979 --> 00:37:49,279

absolutely not because when I was a kid

831

00:37:55,809 --> 00:37:53,989

I remember the TV ads yes something have

832

00:37:58,630 --> 00:37:55,819

a Becks I can't remember with me yeah

833

00:38:02,170 --> 00:37:58,640

yeah oh yeah it was a cup of tea effects

834

00:38:04,809 --> 00:38:02,180

are coveting a good lie down I'm know

835

00:38:09,670 --> 00:38:04,819

that one of the components one of the

836

00:38:12,099 --> 00:38:09,680

components um led to kidney shutdown I

837

00:38:13,900 --> 00:38:12,109

think yeah yeah I can't read I can't

838

00:38:16,359 --> 00:38:13,910

remember the name of it but a general

839

00:38:17,739 --> 00:38:16,369

pain relief yeah it was and it did very

840

00:38:21,460 --> 00:38:17,749

well at that it's just that it was

841

00:38:22,660 --> 00:38:21,470

highly addictive and it also damaged

842

00:38:24,670 --> 00:38:22,670

should keep these I remember this one

843

00:38:27,249 --> 00:38:24,680

yeah of course you do which that's got

844

00:38:30,370 --> 00:38:27,259

the 80s all over it Richard I think the

845

00:38:31,779 --> 00:38:30,380

pastel colors on the show oh but I

846

00:38:33,470 --> 00:38:31,789

remember watching this ad now what's

847

00:38:35,750 --> 00:38:33,480

yogurt icing I can't remember what you

848

00:38:39,200 --> 00:38:35,760

advertising I think it'll be it'll ask

849

00:38:40,580 --> 00:38:39,210

me she's holding up the tablet isn't

850

00:38:42,080 --> 00:38:40,590

that interesting when you see a TV

851
00:38:43,730 --> 00:38:42,090
commercial from 30 years ago and it's

852
00:38:45,680 --> 00:38:43,740
like you saw it yesterday yeah that's

853
00:38:49,300 --> 00:38:45,690
bizarre YouTube's like that you can you

854
00:38:51,800 --> 00:38:49,310
can spend hours of class not that I do I

855
00:38:54,830 --> 00:38:51,810
know that's cool that's going on with

856
00:38:56,690 --> 00:38:54,840
with with advertising from yeah why not

857
00:38:58,970 --> 00:38:56,700
thing I'd was really have lied down

858
00:39:00,650 --> 00:38:58,980
nearly where we started from and we're

859
00:39:04,190 --> 00:39:00,660
just coming to the last cabinet he would

860
00:39:07,040 --> 00:39:04,200
helical days that's old yeah these are

861
00:39:10,040 --> 00:39:07,050
samples of penicillin from howard

862
00:39:12,380 --> 00:39:10,050
flurries laboratory so the Australian

863
00:39:18,200 --> 00:39:12,390

scientist who with a collaborative team

864

00:39:20,480 --> 00:39:18,210

was able to help isolate and produce the

865

00:39:22,220 --> 00:39:20,490

first antibiotic ever we've got some of

866

00:39:25,700 --> 00:39:22,230

these samples that's right yeah and its

867

00:39:27,800 --> 00:39:25,710

original report wow that's that's a huge

868

00:39:30,890 --> 00:39:27,810

historical importance I love a little

869

00:39:33,460 --> 00:39:30,900

display here these are saviors so things

870

00:39:35,690 --> 00:39:33,470

that have had giant leaps forward

871

00:39:37,319 --> 00:39:35,700

vaccination for example let's have a

872

00:39:40,319 --> 00:39:37,329

look

873

00:39:42,420 --> 00:39:40,329

oh wait a minute there you are on the

874

00:39:45,239 --> 00:39:42,430

big screen yeah that's your voice in the

875

00:39:47,670 --> 00:39:45,249

background man I know I apologize now

876

00:39:49,949 --> 00:39:47,680

we're competing with me you can I will

877

00:39:51,979 --> 00:39:49,959

ignore you and talk to you and yes

878

00:39:54,479 --> 00:39:51,989

there's little 1958 it says here's a

879

00:39:56,849 --> 00:39:54,489

little vaccination leaflet little

880

00:39:59,519 --> 00:39:56,859

brochure there as much and a Lancet and

881

00:40:03,329 --> 00:39:59,529

comb for vaccinations and vaccination

882

00:40:05,160 --> 00:40:03,339

needles for smallpox Wow yeah well let's

883

00:40:10,620 --> 00:40:05,170

pop around the corner here out of the

884

00:40:12,870 --> 00:40:10,630

sound of your voice and we're right back

885

00:40:15,269 --> 00:40:12,880

to where we started from an ism as an

886

00:40:17,670 --> 00:40:15,279

old will hold as an ambulance from the

887

00:40:19,589 --> 00:40:17,680

70s or the 80s here once that I

888

00:40:22,199 --> 00:40:19,599

certainly remember well Killian Frankie

889

00:40:24,180 --> 00:40:22,209

thank you so much for accompanying me

890

00:40:26,489 --> 00:40:24,190

around this fantastic exhibition now how

891

00:40:28,289 --> 00:40:26,499

long is it here can you remind us it's

892

00:40:31,229 --> 00:40:28,299

on for another few months it'll wrap up

893

00:40:33,120 --> 00:40:31,239

in May so make sure you are come and

894

00:40:35,670 --> 00:40:33,130

have a look and this is at the Sydney's

895

00:40:37,680 --> 00:40:35,680

powerhouse museum which is a not far

896

00:40:39,209 --> 00:40:37,690

from downtown Sydney if you're covering

897

00:40:41,130 --> 00:40:39,219

internationally it's just near a tram

898

00:40:43,019 --> 00:40:41,140

stop too it's on all the tourist

899

00:40:45,390 --> 00:40:43,029

brochures very easy to Google powerhouse

900

00:40:46,739 --> 00:40:45,400

museum absolutely worthwhile to come and

901
00:41:02,830 --> 00:40:46,749
spend a few hours looking at this

902
00:41:07,700 --> 00:41:05,780
isaac asimov jules verne and hg wells

903
00:41:10,250 --> 00:41:07,710
are some of the classic names of science

904
00:41:20,200 --> 00:41:10,260
fiction so let's take a look at how they

905
00:41:27,320 --> 00:41:24,410
in 1865 Jules Verne seemingly predicted

906
00:41:29,810 --> 00:41:27,330
solar sails massive sales that could

907
00:41:32,720 --> 00:41:29,820
propel a spacecraft using radiation from

908
00:41:34,970 --> 00:41:32,730
the Sun in 1864 the scientific community

909
00:41:37,610 --> 00:41:34,980
knew that light from the Sun carried

910
00:41:39,790 --> 00:41:37,620
momentum and exerted forces on objects

911
00:41:42,350 --> 00:41:39,800
in his book from the earth to the moon

912
00:41:44,960 --> 00:41:42,360
Jules extrapolated that knowledge to

913
00:41:49,280 --> 00:41:44,970

suggest that light could be used to push

914

00:41:53,480 --> 00:41:49,290

a spacecraft in 2010 the japanese space

915

00:41:55,190 --> 00:41:53,490

agency deployed and used a solar sail he

916

00:41:58,580 --> 00:41:55,200

also seemingly predicted video

917

00:42:00,470 --> 00:41:58,590

conferencing FaceTime and Skype in his

918

00:42:02,480 --> 00:42:00,480

book in the year two thousand eight

919

00:42:04,760 --> 00:42:02,490

hundred and eighty nine he predicted

920

00:42:07,160 --> 00:42:04,770

that telephones would have moving images

921

00:42:13,250 --> 00:42:07,170

and he called this device the fano

922

00:42:16,880 --> 00:42:13,260

telephone in 1964 Isaac Asimov correctly

923

00:42:18,290 --> 00:42:16,890

predicted that by 2014 only robotic

924

00:42:20,780 --> 00:42:18,300

missions to Mars will have been

925

00:42:23,360 --> 00:42:20,790

accomplished but that a human mission

926
00:42:27,980 --> 00:42:23,370
would be in the planning stages hello

927
00:42:30,710 --> 00:42:27,990
Mars one azimoff also predicted by 2014

928
00:42:33,740 --> 00:42:30,720
robots would exist that would be neither

929
00:42:36,200 --> 00:42:33,750
common all very good he also suggested

930
00:42:39,770 --> 00:42:36,210
that machines would have taken over many

931
00:42:42,290 --> 00:42:39,780
routine human jobs hg wells best known

932
00:42:46,340 --> 00:42:42,300
for his work War of the Worlds correctly

933
00:42:48,560 --> 00:42:46,350
predicted in 1913 the atomic bomb which

934
00:42:50,570 --> 00:42:48,570
could decimate cities it would cause

935
00:42:54,110 --> 00:42:50,580
mushroom clouds and result in

936
00:42:56,750 --> 00:42:54,120
radioactive fallout all of this 30 years

937
00:42:58,820 --> 00:42:56,760
before the Manhattan Project they didn't

938
00:43:01,040 --> 00:42:58,830

get everything right however and here

939

00:43:06,320 --> 00:43:01,050

are four scientific predictions that

940

00:43:10,090 --> 00:43:06,330

proved a little wide of the mark Asimov

941

00:43:12,800 --> 00:43:10,100

predicted in 1964 that by 2014

942

00:43:15,470 --> 00:43:12,810

experimental nuclear fusion power plants

943

00:43:16,640 --> 00:43:15,480

would be in existence Asimov also

944

00:43:19,460 --> 00:43:16,650

suggested that there would be a

945

00:43:22,700 --> 00:43:19,470

permanent moon colony and possibly deep

946

00:43:24,710 --> 00:43:22,710

sea underwater colonies as well despite

947

00:43:27,050 --> 00:43:24,720

Jules Verne surprisingly accurate

948

00:43:29,750 --> 00:43:27,060

descriptions of the Apollo moon landings

949

00:43:32,720 --> 00:43:29,760

he did also suggest the capsule would be

950

00:43:34,960 --> 00:43:32,730

fired from a huge gun which if built in

951
00:43:38,360 --> 00:43:34,970
reality would cause an unsurvivable

952
00:43:40,460 --> 00:43:38,370
acceleration of 1,000 g and arthur c

953
00:43:42,710 --> 00:43:40,470
clarke predicted that with the rise of

954
00:43:44,830 --> 00:43:42,720
Technology no one would travel to work

955
00:43:47,360 --> 00:43:44,840
but they would travel for pleasure

956
00:43:49,550 --> 00:43:47,370
unfortunately that hasn't panned out

957
00:43:51,590 --> 00:43:49,560
want to find out more about predictions

958
00:43:53,540 --> 00:43:51,600
from science fiction check out our

959
00:44:13,950 --> 00:43:53,550
website where we've got some links and

960
00:44:23,980 --> 00:44:19,410
as reported in The Sydney Morning Herald

961
00:44:27,520 --> 00:44:23,990
24th of January 2016 national psychic TV

962
00:44:31,329 --> 00:44:27,530
show forced off air after threats to

963
00:44:33,370 --> 00:44:31,339

celebrity clairvoyance and I don't even

964

00:44:34,950 --> 00:44:33,380

use the word so-called or put them in

965

00:44:37,990 --> 00:44:34,960

quotation marks or anything like that

966

00:44:42,160 --> 00:44:38,000

now psychic TV has been on air for a few

967

00:44:44,050 --> 00:44:42,170

years now it's a program recorded or its

968

00:44:45,760 --> 00:44:44,060

transmitted live i think is transmitted

969

00:44:49,180 --> 00:44:45,770

alive from the studio and frenchs forest

970

00:44:51,520 --> 00:44:49,190

now i have met some of these so-called

971

00:44:54,010 --> 00:44:51,530

psychics that appear on psychic TV I

972

00:44:57,250 --> 00:44:54,020

bump into the mind-body wallet I've sort

973

00:44:59,800 --> 00:44:57,260

of known them along the years what they

974

00:45:02,559 --> 00:44:59,810

tell me about it is a very interesting

975

00:45:06,550 --> 00:45:02,569

of course now there's no two ways about

976

00:45:09,099 --> 00:45:06,560

this this is a way to promote a 24-hour

977

00:45:11,530 --> 00:45:09,109

telephone psychic reading service which

978

00:45:13,990 --> 00:45:11,540

is something like five dollars 45 per

979

00:45:15,670 --> 00:45:14,000

minute it's something that goes on all

980

00:45:17,440 --> 00:45:15,680

around the world dial a psychic you can

981

00:45:19,480 --> 00:45:17,450

see them on the backs of magazines and

982

00:45:22,720 --> 00:45:19,490

things like that but this one however is

983

00:45:25,960 --> 00:45:22,730

interesting because they have a number

984

00:45:28,870 --> 00:45:25,970

of psychics in the studio most of them

985

00:45:31,240 --> 00:45:28,880

are taking calls on the 1-800 numbers

986

00:45:37,000 --> 00:45:31,250

the pain numbers but they'll bring up

987

00:45:39,490 --> 00:45:37,010

one who will answer queries live on air

988

00:45:41,410 --> 00:45:39,500

but not really what they do is they'll

989

00:45:43,960 --> 00:45:41,420

play recording a voice message from

990

00:45:48,280 --> 00:45:43,970

somebody or a message sent in by email

991

00:45:51,040 --> 00:45:48,290

and says hello I'm Fred or I'm Joan my

992

00:45:53,260 --> 00:45:51,050

birth date is so so so and so set 1973

993

00:45:55,210 --> 00:45:53,270

can I get a general life and love

994

00:45:57,430 --> 00:45:55,220

reading or something like that and

995

00:46:00,329 --> 00:45:57,440

that's the last you hear of them then

996

00:46:03,460 --> 00:46:00,339

it's up to the so-called psychic to

997

00:46:06,130 --> 00:46:03,470

spread the tarot cards or scribble

998

00:46:08,020 --> 00:46:06,140

something on numerology charts or

999

00:46:11,170 --> 00:46:08,030

something like that and then after that

1000

00:46:14,140 --> 00:46:11,180

the gamma nah we'll talk to spirit well

1001
00:46:15,819 --> 00:46:14,150
ghosts or whatever and then just deliver

1002
00:46:18,730 --> 00:46:15,829
a series of what we know as Barnum

1003
00:46:20,829 --> 00:46:18,740
statements it's pretty textbook stuff

1004
00:46:23,319 --> 00:46:20,839
pretty easy stuff they don't have to do

1005
00:46:26,740 --> 00:46:23,329
interaction live on air with anybody who

1006
00:46:28,570 --> 00:46:26,750
calls in that sort of done privately

1007
00:46:34,420 --> 00:46:28,580
to give you a taste here's a little

1008
00:46:36,970 --> 00:46:34,430
sample of a typical session now we have

1009
00:46:39,520 --> 00:46:36,980
a whole team of psychics here at psychic

1010
00:46:42,250 --> 00:46:39,530
TV and they're available to you on

1011
00:46:44,800 --> 00:46:42,260
option 5 and they're available 24 hours

1012
00:46:46,630 --> 00:46:44,810
a day so we've got our at-home psychic

1013
00:46:48,010 --> 00:46:46,640

so please give us a call if you would

1014

00:46:51,400 --> 00:46:48,020

like to speak to one of them you can

1015

00:46:53,730 --> 00:46:51,410

press option 5 and dial the 1-800 number

1016

00:46:56,590 --> 00:46:53,740

or the 1 900 number on the screen and

1017

00:46:57,610 --> 00:46:56,600

follow the prompts and press option 5 if

1018

00:47:01,360 --> 00:46:57,620

you'd like to speak to one of our

1019

00:47:03,490 --> 00:47:01,370

at-home psychics so in the meantime we

1020

00:47:07,060 --> 00:47:03,500

have a voice message for you even now on

1021

00:47:13,990 --> 00:47:07,070

dishes for me thanks hi Maurice Veronica

1022

00:47:19,090 --> 00:47:14,000

like this to the 657 I would like you I

1023

00:47:22,620 --> 00:47:19,100

know I'm going to make you so happy I am

1024

00:47:29,220 --> 00:47:22,630

where we could tell me you can help

1025

00:47:37,780 --> 00:47:34,870

work yourself or for another job thank

1026

00:47:39,820 --> 00:47:37,790

you very much in school thank you very

1027

00:47:42,100 --> 00:47:39,830

much for your voicemail message Veronica

1028

00:47:44,740 --> 00:47:42,110

so she's got the feeling that she's made

1029

00:47:46,180 --> 00:47:44,750

gonna meet her soul mate in soon but she

1030

00:47:48,580 --> 00:47:46,190

wants to know how she's going to meet

1031

00:47:50,650 --> 00:47:48,590

him fingers and toes got to be careful

1032

00:47:52,450 --> 00:47:50,660

with the hell because the universe is in

1033

00:47:56,260 --> 00:47:52,460

charge of the how and the universe is in

1034

00:47:57,880 --> 00:47:56,270

charge of when so we need to leave that

1035

00:47:59,590 --> 00:47:57,890

pretty much to the universe I actually

1036

00:48:01,450 --> 00:47:59,600

do get I don't get you need to go

1037

00:48:02,920 --> 00:48:01,460

nightclubbing or anything like that it

1038

00:48:04,600 --> 00:48:02,930

does feel that this person is going to

1039

00:48:06,580 --> 00:48:04,610

feel like this purse is actually going

1040

00:48:08,020 --> 00:48:06,590

to come to you naturally normally I have

1041

00:48:09,790 --> 00:48:08,030

a lot of people say to me yeah but I

1042

00:48:11,410 --> 00:48:09,800

never go out I never do this I never do

1043

00:48:13,060 --> 00:48:11,420

that what you never go to the shops you

1044

00:48:16,240 --> 00:48:13,070

never go to the newsagent she never walk

1045

00:48:17,860 --> 00:48:16,250

up the street when the time is right and

1046

00:48:19,210 --> 00:48:17,870

doesn't feel like it is because it feels

1047

00:48:20,650 --> 00:48:19,220

like you kind of walk around the corner

1048

00:48:22,090 --> 00:48:20,660

going I wonder if that's them i wonder

1049

00:48:25,450 --> 00:48:22,100

if thats mi wonder if that sent that

1050

00:48:27,010 --> 00:48:25,460

actually hear it gets in the way because

1051
00:48:28,930 --> 00:48:27,020
the more we need something the more we

1052
00:48:31,060 --> 00:48:28,940
want something it's kind of the more we

1053
00:48:33,170 --> 00:48:31,070
push it away so what's going to happen

1054
00:48:35,900 --> 00:48:33,180
it's it's kind of like it

1055
00:48:37,790 --> 00:48:35,910
they're saying the win is actually when

1056
00:48:39,349 --> 00:48:37,800
you're just focusing on doing what it is

1057
00:48:41,210 --> 00:48:39,359
you're doing and not even caring about

1058
00:48:42,410 --> 00:48:41,220
whether anyone else is there and it's

1059
00:48:44,480 --> 00:48:42,420
like all of a sudden it feels like

1060
00:48:47,059 --> 00:48:44,490
there's a tap on the shoulder and with

1061
00:48:48,559 --> 00:48:47,069
that tap on the shoulder it's the last

1062
00:48:51,770 --> 00:48:48,569
thing you expect and its really really

1063
00:48:54,710 --> 00:48:51,780

nice surprise it does feel like

1064

00:48:57,559 --> 00:48:54,720

definitely sooner rather than later as

1065

00:48:58,819 --> 00:48:57,569

you know it's within two months and it's

1066

00:49:00,559 --> 00:48:58,829

actually quite funny because you guys

1067

00:49:01,430 --> 00:49:00,569

you see me I shuffle these cards all the

1068

00:49:03,200 --> 00:49:01,440

time and I'm shuffling shuffling

1069

00:49:05,299 --> 00:49:03,210

shuffling and two of the same cards have

1070

00:49:07,069 --> 00:49:05,309

come out again so it's definitely on its

1071

00:49:09,799 --> 00:49:07,079

way we've got triumph out there for you

1072

00:49:12,079 --> 00:49:09,809

spiritual union has come up as well

1073

00:49:13,970 --> 00:49:12,089

because this person is is on the same

1074

00:49:15,829 --> 00:49:13,980

wavelength issue and it's that meeting

1075

00:49:18,079 --> 00:49:15,839

of the minds it's kind of like someone

1076
00:49:19,790 --> 00:49:18,089
you can trust on all levels someone that

1077
00:49:22,130 --> 00:49:19,800
you have a great connection with it and

1078
00:49:25,010 --> 00:49:22,140
I'm getting source sides and saw cheeks

1079
00:49:26,990 --> 00:49:25,020
from laughing so much and both of you

1080
00:49:30,799 --> 00:49:27,000
it's just you you light up each other's

1081
00:49:34,730 --> 00:49:30,809
life and it's absolutely fabulous enjoy

1082
00:49:36,920 --> 00:49:34,740
the the enjoy with delight the feeling

1083
00:49:39,799 --> 00:49:36,930
that it's coming and enjoy that feeling

1084
00:49:42,740 --> 00:49:39,809
because that'll bring it quicker too so

1085
00:49:45,650 --> 00:49:42,750
as you can hear this is really what we

1086
00:49:49,430 --> 00:49:45,660
call Barnum statements it's just pretty

1087
00:49:51,980 --> 00:49:49,440
low-level stuff but I would strongly

1088
00:49:53,900 --> 00:49:51,990

suspect most of the so-called psychics

1089

00:49:56,109 --> 00:49:53,910

that appear on this probably genuinely

1090

00:50:00,109 --> 00:49:56,119

believe that they do have special

1091

00:50:02,510 --> 00:50:00,119

psychic powers many of them do now you

1092

00:50:04,099 --> 00:50:02,520

can't I can't say that for sure I mean

1093

00:50:05,539 --> 00:50:04,109

undoubtedly there are the Sharks and the

1094

00:50:07,910 --> 00:50:05,549

cons out there who've know full well

1095

00:50:09,859 --> 00:50:07,920

they don't have a special psychic powers

1096

00:50:12,710 --> 00:50:09,869

but they certainly know an easy gig when

1097

00:50:15,530 --> 00:50:12,720

they come across one but many of them

1098

00:50:18,109 --> 00:50:15,540

guess really do believe there's a gaze

1099

00:50:19,940 --> 00:50:18,119

of cross there tarot deck or they

1100

00:50:23,359 --> 00:50:19,950

scribble on their numerology charts

1101
00:50:25,400 --> 00:50:23,369
doing mathematics which would thrill

1102
00:50:29,839 --> 00:50:25,410
even Einstein I'm sure that they really

1103
00:50:31,490 --> 00:50:29,849
are delivering mystical magical messages

1104
00:50:35,240 --> 00:50:31,500
but that doesn't attract as one

1105
00:50:36,680 --> 00:50:35,250
commenter as remarked and reminded us

1106
00:50:39,740 --> 00:50:36,690
that doesn't detract at the end of the

1107
00:50:44,150 --> 00:50:39,750
day what they're doing is not real it's

1108
00:50:46,190 --> 00:50:44,160
giving bogus messages there is this term

1109
00:50:46,940 --> 00:50:46,200
out there called grief vampires which

1110
00:50:48,560 --> 00:50:46,950
refers to pee

1111
00:50:50,420 --> 00:50:48,570
people who prey on people's grief to

1112
00:50:52,730 --> 00:50:50,430
make money which some psychics do

1113
00:50:56,410 --> 00:50:52,740

especially those who are know full well

1114

00:50:59,210 --> 00:50:56,420

what they're doing is a con a fraud a

1115

00:51:01,839 --> 00:50:59,220

game but I think that really ultimately

1116

00:51:04,540 --> 00:51:01,849

this is a question of Consumer Affairs

1117

00:51:07,579 --> 00:51:04,550

now i think and i'm pretty sure that

1118

00:51:09,560 --> 00:51:07,589

during the program is a crawl at the

1119

00:51:11,870 --> 00:51:09,570

bottom of the screen and somewhere along

1120

00:51:15,319 --> 00:51:11,880

the crawl or in the credits it'll save

1121

00:51:17,450 --> 00:51:15,329

for entertainment purposes only really

1122

00:51:19,819 --> 00:51:17,460

so they do the people on that show

1123

00:51:22,339 --> 00:51:19,829

really believe they're doing it just for

1124

00:51:23,300 --> 00:51:22,349

entertainment purposes only know most of

1125

00:51:26,240 --> 00:51:23,310

them think they're really getting

1126
00:51:29,599 --> 00:51:26,250
special mystical messages to help people

1127
00:51:31,250 --> 00:51:29,609
but regardless yes it's a it's a surely

1128
00:51:32,630 --> 00:51:31,260
it's something for consumerAffairs but i

1129
00:51:34,730 --> 00:51:32,640
don't think consumer affairs really

1130
00:51:36,410 --> 00:51:34,740
cares about psychics & psychic claims

1131
00:51:38,240 --> 00:51:36,420
and things like this mind body while it

1132
00:51:39,950 --> 00:51:38,250
is a great example you don't see

1133
00:51:43,819 --> 00:51:39,960
investigators from the government

1134
00:51:45,950 --> 00:51:43,829
they're checking out the bona fide ease

1135
00:51:47,480 --> 00:51:45,960
or the claims being made i don't think

1136
00:51:50,690 --> 00:51:47,490
they really take them seriously

1137
00:51:53,569 --> 00:51:50,700
nevertheless to get back to the gist of

1138
00:51:55,910 --> 00:51:53,579

the story it's been reported that these

1139

00:51:59,000 --> 00:51:55,920

so-called psychics have been receiving

1140

00:52:01,940 --> 00:51:59,010

abuse online or even threats and

1141

00:52:03,829 --> 00:52:01,950

somebody is quoted as saying well maybe

1142

00:52:06,319 --> 00:52:03,839

the cast needs to be abused i mean

1143

00:52:07,700 --> 00:52:06,329

you're ripping people off the people who

1144

00:52:10,460 --> 00:52:07,710

follow this show are just poorly

1145

00:52:12,050 --> 00:52:10,470

educated or in a bad spot in their life

1146

00:52:15,170 --> 00:52:12,060

at the moment either way they're

1147

00:52:16,730 --> 00:52:15,180

vulnerable this show is shameless in a

1148

00:52:18,440 --> 00:52:16,740

way yes the show is shameless it's

1149

00:52:20,180 --> 00:52:18,450

basically a business but the correct

1150

00:52:21,670 --> 00:52:20,190

path here is to expose the Barnum

1151
00:52:24,170 --> 00:52:21,680
statements for what they are and

1152
00:52:26,870 --> 00:52:24,180
ultimately to go through consumer

1153
00:52:29,450 --> 00:52:26,880
affairs for people peddling a product

1154
00:52:30,680 --> 00:52:29,460
which does not live up to the claims now

1155
00:52:32,359 --> 00:52:30,690
what I'll do in the show notes for this

1156
00:52:34,970 --> 00:52:32,369
episode is I'll link to some videos of

1157
00:52:38,059 --> 00:52:34,980
psychic TV so you can get a better idea

1158
00:52:40,940 --> 00:52:38,069
or you just google psychic TV Australia

1159
00:52:42,829 --> 00:52:40,950
and they'll come up in in YouTube so an

1160
00:52:46,700 --> 00:52:42,839
odd story coming out of Australia I do

1161
00:52:48,470 --> 00:52:46,710
not condone people using threats of

1162
00:52:50,089 --> 00:52:48,480
violence against psychics I don't think

1163
00:52:53,300 --> 00:52:50,099

there's these people are psychic for one

1164

00:52:56,450 --> 00:52:53,310

moment but that does not mean people

1165

00:52:58,430 --> 00:52:56,460

have the right to threaten and abuse

1166

00:53:00,890 --> 00:52:58,440

people online in this manner so

1167

00:53:02,360 --> 00:53:00,900

counterproductive it's so incredibly

1168

00:53:04,040 --> 00:53:02,370

counterproductive and this is what a lot

1169

00:53:06,230 --> 00:53:04,050

of the anti-vaccination people have been

1170

00:53:09,950 --> 00:53:06,240

doing for many years as abusing and

1171

00:53:11,900 --> 00:53:09,960

threatening people harassing people it

1172

00:53:15,860 --> 00:53:11,910

hasn't helped it their cause so there

1173

00:53:33,470 --> 00:53:15,870

you go psychic TV I wonder if they saw

1174

00:53:38,730 --> 00:53:36,720

hey svenska skeptical the vet vet at

1175

00:53:40,860 --> 00:53:38,740

vatan scope for billing in the boy talk

1176

00:53:43,560 --> 00:53:40,870

none hanger of the skeptic shown that an

1177

00:53:46,290 --> 00:53:43,570

ox 0 alpha alpha dog poop science quiz

1178

00:53:48,840 --> 00:53:46,300

or skeptical Kevin thomasville Queen

1179

00:53:51,000 --> 00:53:48,850

pave pave bloom tuvo from Des a fat

1180

00:53:52,710 --> 00:53:51,010

spawning vivar flealick our local

1181

00:53:54,960 --> 00:53:52,720

training a hunter mill on the topic on

1182

00:53:56,910 --> 00:53:54,970

warm to install that on the fence

1183

00:54:01,500 --> 00:53:56,920

non-local training but from the start

1184

00:54:04,710 --> 00:54:01,510

time 12 your pot on a day is new hello

1185

00:54:06,480 --> 00:54:04,720

all skeptics in Sweden I'm sure you

1186

00:54:09,000 --> 00:54:06,490

already know that the Swedish skeptics

1187

00:54:11,250 --> 00:54:09,010

Association not only is a big fan of the

1188

00:54:13,740 --> 00:54:11,260

skeptic zone but that we also organize

1189

00:54:18,320 --> 00:54:13,750

lectures pop science quiz and skeptics

1190

00:54:22,080 --> 00:54:18,330

in the pub all over the country go to ww

1191

00:54:24,780 --> 00:54:22,090

vof se to see what our seven local

1192

00:54:26,490 --> 00:54:24,790

chapters are up to and if you live in a

1193

00:54:29,700 --> 00:54:26,500

place where there is no local chapter

1194

00:54:44,299 --> 00:54:29,710

why not start on yourself I'm talking to

1195

00:54:48,660 --> 00:54:46,829

thank you for listening to the skeptic

1196

00:54:50,759 --> 00:54:48,670

zone coming up next week I hope to have

1197

00:54:53,430 --> 00:54:50,769

some reports as mentioned earlier in the

1198

00:54:56,579 --> 00:54:53,440

show but the continuing fall out about

1199

00:54:59,670 --> 00:54:56,589

the awarding of the PhD to an anti vac

1200

00:55:03,870 --> 00:54:59,680

sir the chiropractic Board of Australia

1201
00:55:06,450 --> 00:55:03,880
under fire and Mark Zuckerberg and his

1202
00:55:09,539 --> 00:55:06,460
daughter thank you to those people who

1203
00:55:12,839 --> 00:55:09,549
helped the skeptic zone by subscribing

1204
00:55:18,420 --> 00:55:12,849
by a paypal and you can do that via our

1205
00:55:20,130 --> 00:55:18,430
website at wwc a petting zoo TV and news

1206
00:55:22,859 --> 00:55:20,140
has just come in that the next

1207
00:55:25,499 --> 00:55:22,869
Australian skeptics National Convention

1208
00:55:28,730 --> 00:55:25,509
which will be in Melbourne looks like

1209
00:55:31,680 --> 00:55:28,740
being held towards the end of november

1210
00:55:34,620 --> 00:55:31,690
november i think the tentative dates or

1211
00:55:37,019 --> 00:55:34,630
the dates are the 25th to the 27th will

1212
00:55:39,089 --> 00:55:37,029
certainly be confirming that and talking

1213
00:55:41,400 --> 00:55:39,099

more about that convention in the coming

1214

00:55:43,470 --> 00:55:41,410

months but for this week this is Richard

1215

00:55:49,620 --> 00:55:43,480

Saunders signing off from Sydney

1216

00:55:52,140 --> 00:55:49,630

Australia you've been listening to the

1217

00:55:55,980 --> 00:55:52,150

sceptics own podcast visit our website

1218

00:55:59,249 --> 00:55:55,990

at wwc a petting zoo TV for contacts and

1219

00:56:02,430 --> 00:55:59,259

archive of all episodes since 2008 and

1220

00:56:04,470 --> 00:56:02,440

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1221

00:56:07,829 --> 00:56:04,480

skeptic zone by following us on twitter

1222

00:56:11,339 --> 00:56:07,839

at skeptic zone liking us on facebook

1223

00:56:12,839 --> 00:56:11,349

and leaving a review on iTunes you can

1224

00:56:16,680 --> 00:56:12,849

also show your support by subscribing

1225

00:56:19,740 --> 00:56:16,690

via PayPal or as little as 99 cents a

1226

00:56:21,329 --> 00:56:19,750

week the skeptic zone is an independent

1227

00:56:23,789 --> 00:56:21,339

production the views and opinions

1228

00:56:25,890 --> 00:56:23,799

expressed on the skeptic zone and not