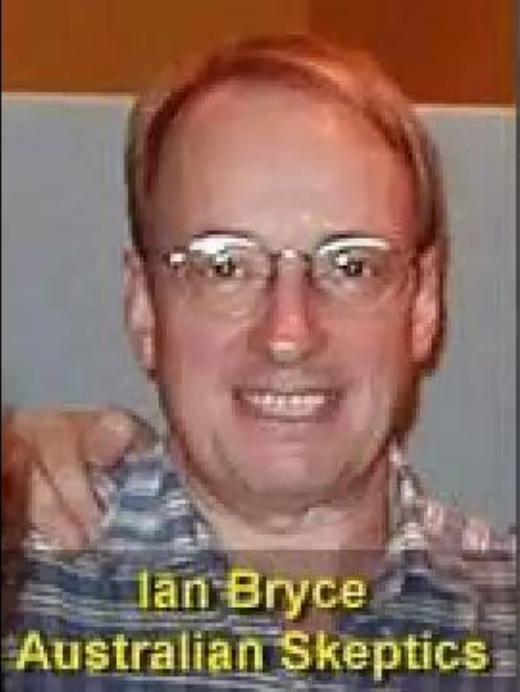


The Skeptic Zone

Show 170 - 21 Jan 2012



Ian Bryce
Australian Skeptics

1
00:00:23,220 --> 00:00:09,090
welcome to the skeptic zone the podcast

2
00:00:30,839 --> 00:00:25,749
yes it's the skeptics are an episode

3
00:00:35,380 --> 00:00:30,849
number 174 the twenty first of January

4
00:00:41,439 --> 00:00:35,390
2012 Richard Saunders here with you from

5
00:00:44,470 --> 00:00:41,449
a very soggy gray drizzly rainy look up

6
00:00:47,340 --> 00:00:44,480
your thesaurus they here in the Bay Area

7
00:00:50,200 --> 00:00:47,350
in California the San Francisco Bay Area

8
00:00:52,420 --> 00:00:50,210
I'm in the USA for a couple of weeks to

9
00:00:55,270 --> 00:00:52,430
visit family and friends and hopefully

10
00:00:59,920 --> 00:00:55,280
score some nice reports and interviews

11
00:01:04,119 --> 00:00:59,930
for the skeptic zone but on this wig

12
00:01:07,210 --> 00:01:04,129
show before i left australia I caught up

13
00:01:09,160 --> 00:01:07,220

with Ian Bryce the chief investigator of

14

00:01:13,179 --> 00:01:09,170

Australian skeptics now he's been

15

00:01:16,719 --> 00:01:13,189

looking into a new sort of claim about

16

00:01:19,179 --> 00:01:16,729

cold fusion I yes remember cold fusion

17

00:01:21,310 --> 00:01:19,189

way back in the 80s I think it was well

18

00:01:23,499 --> 00:01:21,320

it seems that there is a ax and now the

19

00:01:27,040 --> 00:01:23,509

cold fusion device doing the rounds as

20

00:01:30,840 --> 00:01:27,050

it were this is the device called the

21

00:01:35,230 --> 00:01:30,850

e-cat ecat invented by somebody called

22

00:01:39,460 --> 00:01:35,240

andrea rossi in italy now there's an

23

00:01:41,020 --> 00:01:39,470

australian distributor hoping to tell us

24

00:01:44,140 --> 00:01:41,030

all the benefits of this wonderful

25

00:01:45,760 --> 00:01:44,150

device and Ian Bryce on behalf of dick

26

00:01:48,460 --> 00:01:45,770

smith who is a patron of Australian

27

00:01:51,130 --> 00:01:48,470

skeptics went up to the little town of

28

00:01:53,860 --> 00:01:51,140

mullein Bimby up in northern New South

29

00:01:57,940 --> 00:01:53,870

Wales to attend to talk all about this

30

00:02:00,539 --> 00:01:57,950

amazing device what did Ian discover to

31

00:02:03,390 --> 00:02:00,549

find out soon at the top of the show and

32

00:02:07,930 --> 00:02:03,400

following that we have a radio interview

33

00:02:11,259 --> 00:02:07,940

from 4 BC radio 4 BC in Queensland where

34

00:02:14,410 --> 00:02:11,269

the hosts interviewed very dear friend

35

00:02:16,600 --> 00:02:14,420

of the skeptic stone Loretta Marin also

36

00:02:18,789 --> 00:02:16,610

known as the jellybean lady now Loretta

37

00:02:22,690 --> 00:02:18,799

is the only person in history of

38

00:02:25,300 --> 00:02:22,700

Australian skeptics sub / 31 years who

39

00:02:32,620 --> 00:02:25,310

has been awarded skeptic of the Year

40

00:02:34,150 --> 00:02:32,630

twice yes in 2007 and 2011 and you'll

41

00:02:37,270 --> 00:02:34,160

find out why we

42

00:02:43,060 --> 00:02:37,280

loretta in such high regard during the

43

00:02:44,380 --> 00:02:43,070

interview on radio 4 BC I don't know if

44

00:02:46,360 --> 00:02:44,390

you can hear the rain falling outside

45

00:02:49,030 --> 00:02:46,370

but sort of trickling down the gutter

46

00:02:51,670 --> 00:02:49,040

and big drops in this very cold outside

47

00:02:54,910 --> 00:02:51,680

nice and crispy cold I'm just flown out

48

00:03:01,050 --> 00:02:54,920

of Sydney of course which is muggy muggy

49

00:03:04,170 --> 00:03:01,060

humid and hot now it's cold and wet here

50

00:03:07,180 --> 00:03:04,180

are the joys of international travel and

51
00:03:09,580 --> 00:03:07,190
speaking of traveling the skeptic zones

52
00:03:13,480 --> 00:03:09,590
very own dr. Richie will be travelling

53
00:03:15,760 --> 00:03:13,490
to Canberra Canberra the capital of

54
00:03:18,370 --> 00:03:15,770
Australia and she'll be there on

55
00:03:20,860 --> 00:03:18,380
Wednesday the fifteenth of february to

56
00:03:23,800 --> 00:03:20,870
give a talk at the optus lecture theatre

57
00:03:27,190 --> 00:03:23,810
which is at the CSIRO discovery science

58
00:03:29,410 --> 00:03:27,200
center clooney's ross street and in

59
00:03:31,510 --> 00:03:29,420
canberra she's going to be giving a talk

60
00:03:35,680 --> 00:03:31,520
which is free by the way free admission

61
00:03:37,600 --> 00:03:35,690
free free free diagnosis by dr. google

62
00:03:41,160 --> 00:03:37,610
that date again is Wednesday the

63
00:03:46,470 --> 00:03:41,170

fifteenth of february starting at 6pm

64

00:03:48,970 --> 00:03:46,480

now if you go to ww skeptics on TV and

65

00:03:51,640 --> 00:03:48,980

click the link on the show notes you can

66

00:03:54,730 --> 00:03:51,650

find out more about Reggie's visit to

67

00:03:59,050 --> 00:03:54,740

Canberra if you're in the AC T or near

68

00:04:02,740 --> 00:03:59,060

it why not go along and see dr. H E and

69

00:04:04,960 --> 00:04:02,750

hit her talk in person and you can also

70

00:04:08,220 --> 00:04:04,970

visit the website of Canberra skeptics

71

00:04:14,890 --> 00:04:08,230

which is pretty easy to remember ww

72

00:04:16,690 --> 00:04:14,900

Canberra skeptic so are GE you thank you

73

00:04:18,789 --> 00:04:16,700

to those listeners who in the past week

74

00:04:22,720 --> 00:04:18,799

have been chipping in to help our dear

75

00:04:25,630 --> 00:04:22,730

friend and report am a nard get to the

76
00:04:27,460 --> 00:04:25,640
amazing meeting in Las Vegas I'm just

77
00:04:30,490 --> 00:04:27,470
looking on the website now looking at

78
00:04:32,500 --> 00:04:30,500
Maynard's thermometer the total of the

79
00:04:35,020 --> 00:04:32,510
money raised and yes it's sort of

80
00:04:38,580 --> 00:04:35,030
creeping up towards her nor must be

81
00:04:41,320 --> 00:04:38,590
nearly 1500 by now of course our goal is

82
00:04:43,540 --> 00:04:41,330
2500 so we're getting there we are

83
00:04:45,130 --> 00:04:43,550
definitely getting there and I can't

84
00:04:47,290 --> 00:04:45,140
wait to hear the reports that Maynard

85
00:04:48,080 --> 00:04:47,300
will be able to bring us all when he

86
00:04:50,710 --> 00:04:48,090
gets to Lhasa

87
00:04:53,390 --> 00:04:50,720
yes we're flying may nod to Las Vegas

88
00:04:56,320 --> 00:04:53,400

yeah I've never flown somebody's Las

89

00:04:59,230 --> 00:04:56,330

Vegas before I hope I get to go to

90

00:05:02,629 --> 00:04:59,240

anyway if you feel like helping out

91

00:05:05,960 --> 00:05:02,639

please do please do i'm sure we'll get

92

00:05:07,610 --> 00:05:05,970

da we'll get to how goal and you can

93

00:05:10,820 --> 00:05:07,620

visit the skeptics on website of course

94

00:05:13,790 --> 00:05:10,830

and click the donate button for me nod

95

00:05:16,790 --> 00:05:13,800

and i must say thank you to our dr. Phil

96

00:05:20,030 --> 00:05:16,800

Plait who was on last week's show he

97

00:05:22,969 --> 00:05:20,040

helped us set a new record for the

98

00:05:27,710 --> 00:05:22,979

skeptic zone his show which was episode

99

00:05:30,890 --> 00:05:27,720

number 169 has almost twice as many

100

00:05:33,680 --> 00:05:30,900

downloads as our previous record Thank

101
00:05:36,200 --> 00:05:33,690
You Phil Plait and welcome to all the

102
00:05:37,940 --> 00:05:36,210
new listeners to the skeptic zone we've

103
00:05:40,279 --> 00:05:37,950
had so many guests over the three years

104
00:05:42,170 --> 00:05:40,289
or so the skeptic zones been going so

105
00:05:45,140 --> 00:05:42,180
many interesting reports but you can see

106
00:05:49,219 --> 00:05:45,150
a huge list of those at skeptics own TV

107
00:05:51,860 --> 00:05:49,229
click the download comments link and you

108
00:05:56,480 --> 00:05:51,870
can see a list of all the past skeptic

109
00:05:59,480 --> 00:05:56,490
zone episodes waiting waiting for you to

110
00:06:04,870 --> 00:05:59,490
hear them well as I hear more rain out

111
00:06:08,300 --> 00:06:04,880
the window let me have a look oh yes

112
00:06:09,920 --> 00:06:08,310
gray overcast David there you go I'm

113
00:06:15,090 --> 00:06:09,930

going to run upstairs i'm going to have

114

00:06:19,920 --> 00:06:18,570

what can I have a hot drink of what what

115

00:06:24,060 --> 00:06:19,930

do you have a hot drink off when you're

116

00:06:27,690 --> 00:06:24,070

in in san francisco bay area mmm what

117

00:06:49,309 --> 00:06:27,700

the hell hot chocolate oh yes while you

118

00:06:54,120 --> 00:06:51,900

now listeners a couple of weeks ago you

119

00:06:56,339 --> 00:06:54,130

may well remember I went for a walk with

120

00:06:58,770 --> 00:06:56,349

my good friend and chief investigator on

121

00:07:01,409 --> 00:06:58,780

from the Australian skeptics Ian Bryce

122

00:07:04,020 --> 00:07:01,419

and we're walking the dogs in fact and

123

00:07:06,330 --> 00:07:04,030

we were discussing the interesting

124

00:07:08,879 --> 00:07:06,340

things regarding negatively positive

125

00:07:11,310 --> 00:07:08,889

ions well Ian Bryce is back with us

126

00:07:14,159 --> 00:07:11,320

today to discuss more interesting things

127

00:07:19,170 --> 00:07:14,169

this time the the hope and the promise

128

00:07:23,100 --> 00:07:19,180

of cheap and hardly polluting type

129

00:07:24,749 --> 00:07:23,110

energy hello Ian hello Richard now you

130

00:07:26,999 --> 00:07:24,759

went on a mission you want to on a

131

00:07:28,710 --> 00:07:27,009

mission for our founder mr. dick smith

132

00:07:30,240 --> 00:07:28,720

who was very famous here in Australia

133

00:07:31,830 --> 00:07:30,250

for the founding of the Australian

134

00:07:34,830 --> 00:07:31,840

skeptics and the dick smith electronics

135

00:07:36,180 --> 00:07:34,840

chain and Dick Smith foods and he's

136

00:07:39,360 --> 00:07:36,190

flown around the world in a helicopter

137

00:07:41,939 --> 00:07:39,370

and had many records with his

138

00:07:47,640 --> 00:07:41,949

adventuring but he was approached I

139

00:07:50,370 --> 00:07:47,650

believe to fund a new type of engine yes

140

00:07:52,620 --> 00:07:50,380

dicks known for his support for

141

00:07:54,899 --> 00:07:52,630

environmental and humanitarian projects

142

00:07:56,670 --> 00:07:54,909

so of course a new form of energy that

143

00:08:00,959 --> 00:07:56,680

was antifreeze from climate change would

144

00:08:03,390 --> 00:08:00,969

be a most amazing thing so your dogs are

145

00:08:07,860 --> 00:08:03,400

green they're outside right yes pardon

146

00:08:10,770 --> 00:08:07,870

the dogs so in this case dick was a bit

147

00:08:12,959 --> 00:08:10,780

surprised to be approached by this by

148

00:08:15,390 --> 00:08:12,969

this representing representative looking

149

00:08:18,240 --> 00:08:15,400

for money for Rossi's so-called ecat

150

00:08:22,260 --> 00:08:18,250

machine are you cat is EC 80 right

151
00:08:23,790 --> 00:08:22,270
energy catalyzer energy is now yes you

152
00:08:27,180 --> 00:08:23,800
can easily find that on the web if you

153
00:08:29,189 --> 00:08:27,190
do a Google and the main difference from

154
00:08:31,170 --> 00:08:29,199
all the other things that the skeptics

155
00:08:33,240 --> 00:08:31,180
have investigated is that there's no

156
00:08:34,889 --> 00:08:33,250
less than eight scientists who have come

157
00:08:36,930 --> 00:08:34,899
out giving some support for this device

158
00:08:40,040 --> 00:08:36,940
where's most of the other things we've

159
00:08:43,620 --> 00:08:40,050
investigated like homeopathy and the

160
00:08:45,360 --> 00:08:43,630
anti-vaccination group and the our band

161
00:08:47,640 --> 00:08:45,370
bracelets yes you don't find any

162
00:08:49,500 --> 00:08:47,650
scientific support at all right so given

163
00:08:50,370 --> 00:08:49,510

that there's some scientific support for

164

00:08:53,100 --> 00:08:50,380

this

165

00:08:55,770 --> 00:08:53,110

dick thought the skeptic should look

166

00:08:58,140 --> 00:08:55,780

into it so I went along to them the

167

00:09:00,690 --> 00:08:58,150

meeting we meeting in northern Australia

168

00:09:03,380 --> 00:09:00,700

or northern New South Wales in fact just

169

00:09:06,000 --> 00:09:03,390

a few days ago you flew up to the little

170

00:09:08,870 --> 00:09:06,010

little township of Marlon bimby

171

00:09:12,870 --> 00:09:08,880

mullumbimby which is near byron bay and

172

00:09:14,970 --> 00:09:12,880

just as a side note i grew up in milan

173

00:09:18,660 --> 00:09:14,980

min herre about how about that i spent

174

00:09:23,130 --> 00:09:18,670

most of my school years in mummys on I

175

00:09:24,900 --> 00:09:23,140

remember that very well which is very

176

00:09:26,460 --> 00:09:24,910

strange when I think about it because it

177

00:09:28,380 --> 00:09:26,470

really is just a little country town

178

00:09:30,120 --> 00:09:28,390

it's a lovely little country town but

179

00:09:33,120 --> 00:09:30,130

it's just a little country town it's not

180

00:09:36,570 --> 00:09:33,130

the place i would think that um would be

181

00:09:38,610 --> 00:09:36,580

used to drop interest in some type of

182

00:09:41,270 --> 00:09:38,620

technology that could potentially change

183

00:09:43,980 --> 00:09:41,280

the world i guess but what they have is

184

00:09:46,620 --> 00:09:43,990

retired money is surprisingly large

185

00:09:48,810 --> 00:09:46,630

number of wealthy people there who have

186

00:09:52,050 --> 00:09:48,820

written who have retired or prepared

187

00:09:53,640 --> 00:09:52,060

prefer a living style that's away from

188

00:09:57,090 --> 00:09:53,650

the big smoke among the beautiful

189

00:09:59,610 --> 00:09:57,100

rolling hills and hinterland there yes

190

00:10:02,550 --> 00:09:59,620

yes and there have been quite a few

191

00:10:05,700 --> 00:10:02,560

different schemes and scams associated

192

00:10:08,520 --> 00:10:05,710

with the area and it's well known for

193

00:10:10,020 --> 00:10:08,530

people who politely you could say people

194

00:10:11,820 --> 00:10:10,030

who feel very much in tune with the

195

00:10:13,440 --> 00:10:11,830

earth in fact I got some brochures when

196

00:10:15,030 --> 00:10:13,450

I was up there there's the fist deal

197

00:10:17,430 --> 00:10:15,040

with earth frequencies coming up

198

00:10:18,930 --> 00:10:17,440

relative frequency so ask them what that

199

00:10:22,140 --> 00:10:18,940

was a better man referred me to Nikola

200

00:10:25,290 --> 00:10:22,150

Tesla his experiments report yes rican

201

00:10:27,360 --> 00:10:25,300

so he'd be rotating in his grave if he

202

00:10:31,020 --> 00:10:27,370

knew all the time people bring up his

203

00:10:33,560 --> 00:10:31,030

name but well I remember a dead area of

204

00:10:37,410 --> 00:10:33,570

Australia northern New South Wales um

205

00:10:39,660 --> 00:10:37,420

it's it was a big center in the in the

206

00:10:41,970 --> 00:10:39,670

early 70s especially for the hippie

207

00:10:44,670 --> 00:10:41,980

culture I remain and still is and still

208

00:10:48,180 --> 00:10:44,680

is yes yes in fact my host drove me

209

00:10:50,070 --> 00:10:48,190

around in a 1988 car painted with

210

00:10:53,400 --> 00:10:50,080

flowers and love and peace times they

211

00:10:54,780 --> 00:10:53,410

fancy surviving from those days well and

212

00:10:58,080 --> 00:10:54,790

we've got a good idea of the demographic

213

00:10:59,730 --> 00:10:58,090

there I I gave an outline of the

214

00:11:00,900 --> 00:10:59,740

skeptics when when I got to give my

215

00:11:03,000 --> 00:11:00,910

presentation and the things they've

216

00:11:04,590 --> 00:11:03,010

investigated recently we mentioned that

217

00:11:06,180 --> 00:11:04,600

power band and those things and when I

218

00:11:07,470 --> 00:11:06,190

got to the anti-vaccination the

219

00:11:08,580 --> 00:11:07,480

Australian vaccination that rep it

220

00:11:10,130 --> 00:11:08,590

really anti-vaccination should have

221

00:11:12,840 --> 00:11:10,140

heard the hurts from the audience and

222

00:11:15,720 --> 00:11:12,850

someone walked out what Evans have been

223

00:11:17,190 --> 00:11:15,730

able to tolerate that so you were flown

224

00:11:19,170 --> 00:11:17,200

up there on behalf of Dick Smith to

225

00:11:23,250 --> 00:11:19,180

check out the bona fide ease of this

226

00:11:25,440 --> 00:11:23,260

this ecad and you were given the chance

227

00:11:27,750 --> 00:11:25,450

to actually address the the meeting

228

00:11:29,430 --> 00:11:27,760

which is I think that was a very good

229

00:11:31,290 --> 00:11:29,440

that you were given that chance I must

230

00:11:33,360 --> 00:11:31,300

say yes that was quite courteous of my

231

00:11:35,490 --> 00:11:33,370

host the Australian the prospective

232

00:11:39,720 --> 00:11:35,500

representative to allow me to share the

233

00:11:42,360 --> 00:11:39,730

table with him and and give my point of

234

00:11:44,460 --> 00:11:42,370

view it's quite open although he did get

235

00:11:46,200 --> 00:11:44,470

a bit worried as it went on and well I

236

00:11:47,910 --> 00:11:46,210

was just about to come to that as it

237

00:11:52,260 --> 00:11:47,920

happened and I've looked at your notes

238

00:11:54,840 --> 00:11:52,270

from the presentation you gave maybe he

239

00:11:57,810 --> 00:11:54,850

would have been somewhat disappointed by

240

00:12:01,380 --> 00:11:57,820

your presentation because it wasn't

241

00:12:03,060 --> 00:12:01,390

glowing was it that's right yes he he

242

00:12:04,560 --> 00:12:03,070

and a lot of his colleagues were saying

243

00:12:05,550 --> 00:12:04,570

things like come on just investment what

244

00:12:07,980 --> 00:12:05,560

he worried about we've got at least

245

00:12:09,780 --> 00:12:07,990

scientists saying it's okay we're over

246

00:12:13,350 --> 00:12:09,790

that we want to work out the finances

247

00:12:16,740 --> 00:12:13,360

yeah and this guy had a quite a scheme

248

00:12:18,030 --> 00:12:16,750

set up for his nonprofit organization

249

00:12:20,580 --> 00:12:18,040

which seem to be handling a lot of money

250

00:12:23,730 --> 00:12:20,590

in his business plan for a nonprofit

251

00:12:25,050 --> 00:12:23,740

organization and there were profits to

252

00:12:27,870 --> 00:12:25,060

be made left right and centre we were

253

00:12:30,570 --> 00:12:27,880

assured so I put the bit of a break on

254

00:12:31,950 --> 00:12:30,580

it and and when it was my time to speak

255

00:12:33,570 --> 00:12:31,960

I said we'll hang on a bit let's slow

256

00:12:35,550 --> 00:12:33,580

down and take a step backward from all

257

00:12:38,130 --> 00:12:35,560

this let's firstly find out whether it's

258

00:12:39,480 --> 00:12:38,140

true yes before we start working out the

259

00:12:42,750 --> 00:12:39,490

business plan and the investment

260

00:12:44,760 --> 00:12:42,760

strategy if this engine is true as

261

00:12:47,630 --> 00:12:44,770

claimed he and it we're and we're not

262

00:12:50,160 --> 00:12:47,640

joking about here it would seriously

263

00:12:52,230 --> 00:12:50,170

revolutionize our society wouldn't it it

264

00:12:56,130 --> 00:12:52,240

totally would a totally new field of

265

00:12:58,430 --> 00:12:56,140

physics and energy production climate

266

00:13:00,690 --> 00:12:58,440

change would be solved overnight and

267

00:13:03,570 --> 00:13:00,700

everything standard could go on climbing

268

00:13:06,090 --> 00:13:03,580

yes we produce more goods and recycle

269

00:13:08,820 --> 00:13:06,100

more goods very easily yeah so it really

270

00:13:11,010 --> 00:13:08,830

is a bold claim that these people will

271

00:13:13,620 --> 00:13:11,020

make yes yes on the other hand so that's

272

00:13:15,240 --> 00:13:13,630

one reason that dick wanted to invest in

273

00:13:16,710 --> 00:13:15,250

it if it's going to be of such benefit

274

00:13:18,660 --> 00:13:16,720

to mankind we'd all like to be

275

00:13:20,519 --> 00:13:18,670

of it but the other side of the coin was

276

00:13:22,889 --> 00:13:20,529

that if it turns out to be a scam to be

277

00:13:24,300 --> 00:13:22,899

false and we don't want people wasting

278

00:13:26,249 --> 00:13:24,310

their money on it that money could

279

00:13:29,129 --> 00:13:26,259

otherwise been invested in things that

280

00:13:32,009 --> 00:13:29,139

are known to benefit humanity and save

281

00:13:35,400 --> 00:13:32,019

the climate for example good old bog

282

00:13:36,809 --> 00:13:35,410

standard solar power good yeah if

283

00:13:39,679 --> 00:13:36,819

there's a replicator ways of energy

284

00:13:42,569 --> 00:13:39,689

storage overnight you say but more

285

00:13:44,460 --> 00:13:42,579

advancement of the of the technologies

286

00:13:46,710 --> 00:13:44,470

involved in solar energy so year by year

287

00:13:49,650 --> 00:13:46,720

I imagine where winking better

288

00:13:51,269 --> 00:13:49,660

efficiency out of these cells but if

289

00:13:53,220 --> 00:13:51,279

you're going to spend millions on this

290

00:13:54,629 --> 00:13:53,230

scheme that turns out to be wasted to be

291

00:13:56,639 --> 00:13:54,639

better off spending the millions

292

00:13:59,790 --> 00:13:56,649

unimproved what's going to work yeah

293

00:14:02,189 --> 00:13:59,800

yeah so these motivations they dick to

294

00:14:03,389 --> 00:14:02,199

ask me to go and assess the situation up

295

00:14:06,840 --> 00:14:03,399

there and I please they've got the

296

00:14:08,490 --> 00:14:06,850

chance to address them as well so I've

297

00:14:11,340 --> 00:14:08,500

developed a little scientific tool

298

00:14:13,710 --> 00:14:11,350

called the three-legged stool test yes I

299

00:14:15,030 --> 00:14:13,720

shall use this is a I made a little note

300

00:14:20,189 --> 00:14:15,040

to ask you about that because I do

301
00:14:22,470 --> 00:14:20,199
remember how many years ago in 2004 i

302
00:14:24,420 --> 00:14:22,480
think it was at a convention that in

303
00:14:26,309 --> 00:14:24,430
here in sydney you you spoke about the

304
00:14:27,780 --> 00:14:26,319
three-legged stool and i remember

305
00:14:30,869 --> 00:14:27,790
thinking at the time it was a very good

306
00:14:33,299 --> 00:14:30,879
little benchmark for when you're

307
00:14:36,360 --> 00:14:33,309
investigating something especially free

308
00:14:38,220 --> 00:14:36,370
energy devices so for the benefit out of

309
00:14:40,470 --> 00:14:38,230
our listeners who are sitting on their

310
00:14:42,119 --> 00:14:40,480
four-legged chairs could the moment or

311
00:14:44,699 --> 00:14:42,129
whatever they're doing how does the

312
00:14:46,619 --> 00:14:44,709
three-legged stool work well it says

313
00:14:48,420 --> 00:14:46,629

that if you're assessing some new claim

314

00:14:50,999 --> 00:14:48,430

regarding a new type of science or

315

00:14:53,189 --> 00:14:51,009

technology or health care or something

316

00:14:55,139 --> 00:14:53,199

like that there's three tests you should

317

00:14:58,710 --> 00:14:55,149

give it one is there a theory that makes

318

00:15:00,119 --> 00:14:58,720

it possible at least right and two are

319

00:15:02,579 --> 00:15:00,129

their measurements that show that is

320

00:15:03,660 --> 00:15:02,589

actually happening and three does the

321

00:15:05,699 --> 00:15:03,670

claimant have any sort of creb

322

00:15:07,889 --> 00:15:05,709

credibility that should that you should

323

00:15:09,480 --> 00:15:07,899

believe what they're saying so we went

324

00:15:12,960 --> 00:15:09,490

through this case according to those

325

00:15:14,929 --> 00:15:12,970

three categories and basically found out

326

00:15:17,699 --> 00:15:14,939

that it's falling short on all of those

327

00:15:19,049 --> 00:15:17,709

so to cut it short therefore I

328

00:15:20,940 --> 00:15:19,059

recommended the dick that he doesn't

329

00:15:23,340 --> 00:15:20,950

invest in this run

330

00:15:25,170 --> 00:15:23,350

and that that end you could no doubt be

331

00:15:26,820 --> 00:15:25,180

used to feel the plane that's just

332

00:15:28,230 --> 00:15:26,830

flying overhead which is exciting the

333

00:15:32,220 --> 00:15:28,240

dogs is all happening here at Ian's

334

00:15:34,380 --> 00:15:32,230

place everybody oh there we go it's it's

335

00:15:35,940 --> 00:15:34,390

gone away so yes this is it's great

336

00:15:38,370 --> 00:15:35,950

because you look at three the three

337

00:15:40,470 --> 00:15:38,380

major points and I think I love the way

338

00:15:42,090 --> 00:15:40,480

you put it if one of the legs isn't

339

00:15:44,160 --> 00:15:42,100

working the stools going to fall

340

00:15:46,380 --> 00:15:44,170

probably all over right and if it's got

341

00:15:48,510 --> 00:15:46,390

three broken legs then it's probably not

342

00:15:52,590 --> 00:15:48,520

even worth considering further yeah yeah

343

00:15:54,960 --> 00:15:52,600

so how in this situation how did the

344

00:15:57,150 --> 00:15:54,970

three legs stack up or not well we can

345

00:15:58,470 --> 00:15:57,160

go through them in a bit more detail the

346

00:16:01,170 --> 00:15:58,480

first one is the credibility looking at

347

00:16:03,180 --> 00:16:01,180

Rossi's history now this is the the guy

348

00:16:07,290 --> 00:16:03,190

usually is the guy initially enter yes

349

00:16:09,060 --> 00:16:07,300

the local representative doesn't have

350

00:16:10,920 --> 00:16:09,070

any knowledge really of whether it's

351

00:16:14,790 --> 00:16:10,930

valid or not so let's turn our focus to

352

00:16:17,730 --> 00:16:14,800

the Italian origin of it yeah so andrea

353

00:16:20,490 --> 00:16:17,740

rossi has been imprisoned twice for

354

00:16:22,950 --> 00:16:20,500

various charges to do with environmental

355

00:16:25,880 --> 00:16:22,960

fraud he's got a he's had a previous

356

00:16:30,210 --> 00:16:25,890

invention called a thermoelectric

357

00:16:32,340 --> 00:16:30,220

generator which he sold 29 devices for

358

00:16:36,230 --> 00:16:32,350

evaluation and none of them worked here

359

00:16:39,060 --> 00:16:36,240

not a very good record he has apparently

360

00:16:41,040 --> 00:16:39,070

stated false academic credentials which

361

00:16:43,320 --> 00:16:41,050

he doesn't have caused himself a

362

00:16:47,790 --> 00:16:43,330

physicist when his only degree is in

363

00:16:50,520 --> 00:16:47,800

philosophy and lots of problems like

364

00:16:53,070 --> 00:16:50,530

that so that's not a showstopper

365

00:16:55,140 --> 00:16:53,080

basically I agreed isn't it doesn't bode

366

00:16:57,660 --> 00:16:55,150

well it doesn't mean he can't even avert

367

00:16:59,640 --> 00:16:57,670

invented something wonderful but it's

368

00:17:02,820 --> 00:16:59,650

not a good start one might say exactly

369

00:17:05,100 --> 00:17:02,830

the second way is the theory Rossi's

370

00:17:07,319 --> 00:17:05,110

basing it on he thinks it's cold fusion

371

00:17:08,790 --> 00:17:07,329

or says it's cold fusion which will

372

00:17:10,650 --> 00:17:08,800

remember back in the 1980s with

373

00:17:13,579 --> 00:17:10,660

Fleischmann and pons year has never been

374

00:17:17,189 --> 00:17:13,589

reproduced that long ago 90 yes indeed

375

00:17:20,840 --> 00:17:17,199

so since then the field has been renamed

376

00:17:23,490 --> 00:17:20,850

low energy nuclear reactions ie NR and

377

00:17:25,140 --> 00:17:23,500

broadened and this quite a body of

378

00:17:28,230 --> 00:17:25,150

research in it now very much on the

379

00:17:29,480 --> 00:17:28,240

fringes of science yeah is it is there

380

00:17:33,180 --> 00:17:29,490

such a thing well no one's actually

381

00:17:34,440 --> 00:17:33,190

shown that there is and the theory is

382

00:17:40,940 --> 00:17:34,450

based on

383

00:17:43,379 --> 00:17:40,950

quantum theory of condensed matter and

384

00:17:45,509 --> 00:17:43,389

electrons that have become very heavy so

385

00:17:47,129 --> 00:17:45,519

they can orbit closer to the nucleus of

386

00:17:50,460 --> 00:17:47,139

a hydrogen atom and this has never been

387

00:17:52,470 --> 00:17:50,470

observed and it's doubtful that it

388

00:17:53,639 --> 00:17:52,480

exists at all but there is a field of

389

00:17:57,600 --> 00:17:53,649

study there and there are published

390

00:18:00,360 --> 00:17:57,610

papers on it however Rossi's been able

391

00:18:01,950 --> 00:18:00,370

to get any of his own papers published

392

00:18:04,470 --> 00:18:01,960

in any scientific journal so he created

393

00:18:06,360 --> 00:18:04,480

his own so-called scientific journal the

394

00:18:09,450 --> 00:18:06,370

Journal of nuclear physics mm-hm and

395

00:18:11,430 --> 00:18:09,460

he's the only one who writes trip that's

396

00:18:14,430 --> 00:18:11,440

a bit odd maybe he peer reviewed it

397

00:18:16,769 --> 00:18:14,440

himself so there's no theory to support

398

00:18:18,779 --> 00:18:16,779

it right what we do find that and the

399

00:18:20,549 --> 00:18:18,789

third leg of the stool his experiments

400

00:18:22,350 --> 00:18:20,559

and misses there's a fair bit more

401
00:18:24,060 --> 00:18:22,360
detail available on the experiments than

402
00:18:26,940 --> 00:18:24,070
the other areas so I went through the

403
00:18:29,519 --> 00:18:26,950
claimed about five different

404
00:18:34,169 --> 00:18:29,529
demonstrations during 2011 that he's

405
00:18:36,539 --> 00:18:34,179
reported and in each of those we find

406
00:18:39,269 --> 00:18:36,549
out the physic considerable doubt about

407
00:18:43,789 --> 00:18:39,279
the measurements uh-huh for example

408
00:18:45,419 --> 00:18:43,799
there was one case where his

409
00:18:49,320 --> 00:18:45,429
demonstration was observed by two

410
00:18:51,360 --> 00:18:49,330
Swedish nuclear physicists rias's quite

411
00:18:54,269 --> 00:18:51,370
remarkable and they both they jointly

412
00:18:58,889 --> 00:18:54,279
published a travel report which said

413
00:19:00,330 --> 00:18:58,899

that the results as they saw them tend

414

00:19:02,519 --> 00:19:00,340

to support the idea that there was a

415

00:19:04,529 --> 00:19:02,529

production of energy going on more than

416

00:19:07,350 --> 00:19:04,539

you could hear from chemical reaction so

417

00:19:09,060 --> 00:19:07,360

this is one of the groups of scientists

418

00:19:10,860 --> 00:19:09,070

that give some support to it in fact one

419

00:19:12,269 --> 00:19:10,870

of them used to be the chairman of the

420

00:19:14,789 --> 00:19:12,279

Swedish skeptics which is a sister

421

00:19:17,820 --> 00:19:14,799

organization to Australians kept here so

422

00:19:20,549 --> 00:19:17,830

we hold his opinion in high regard of

423

00:19:22,470 --> 00:19:20,559

course so what I looked at was i

424

00:19:27,000 --> 00:19:22,480

reverse-engineered the charts that were

425

00:19:28,950 --> 00:19:27,010

provided by Rossi and carried it to

426

00:19:31,529 --> 00:19:28,960

another level of analysis not taking it

427

00:19:33,810 --> 00:19:31,539

at face value and given the temperature

428

00:19:35,070 --> 00:19:33,820

reports of Rossi's reactor perhaps I

429

00:19:36,750 --> 00:19:35,080

should stop for a moment and describe

430

00:19:39,690 --> 00:19:36,760

what's happening Rossi's gotta yes how

431

00:19:41,779 --> 00:19:39,700

does the machinist seem to work in ok

432

00:19:44,340 --> 00:19:41,789

well the basic device is an I-shaped

433

00:19:45,570 --> 00:19:44,350

copper device it looks like a set of

434

00:19:48,029 --> 00:19:45,580

plumbing that you ordered from the

435

00:19:48,630 --> 00:19:48,039

hardware store together with them torch

436

00:19:51,300 --> 00:19:48,640

yeah

437

00:19:53,370 --> 00:19:51,310

and it's not very big is it that's right

438

00:19:55,200 --> 00:19:53,380

there's big as a shoe box my first

439

00:19:57,060 --> 00:19:55,210

branch contains a little so-called

440

00:19:59,520 --> 00:19:57,070

nuclear reactor with nipple powder a

441

00:20:00,930 --> 00:19:59,530

nickel flakes and hydrogen in it and an

442

00:20:03,390 --> 00:20:00,940

unknown catalyst which is supposed to

443

00:20:04,860 --> 00:20:03,400

react once you warm it up the water

444

00:20:06,480 --> 00:20:04,870

flows down oven gets hot then as a

445

00:20:08,520 --> 00:20:06,490

vertical chimney his purpose is to

446

00:20:12,150 --> 00:20:08,530

collect the steam and that goes out a

447

00:20:15,030 --> 00:20:12,160

hose so in the end it will this machine

448

00:20:17,790 --> 00:20:15,040

is designed to generate steam to drive a

449

00:20:19,110 --> 00:20:17,800

turbine and yes the power here it's a

450

00:20:20,610 --> 00:20:19,120

bit of a mystery why rusty has never

451
00:20:23,040 --> 00:20:20,620
harnessed the steam coming out for any

452
00:20:25,650 --> 00:20:23,050
useful purpose which means that you have

453
00:20:27,660 --> 00:20:25,660
to do the efficiency calculation based

454
00:20:30,390 --> 00:20:27,670
on 2 and like things which is always a

455
00:20:32,930 --> 00:20:30,400
bad sign right does cold water going in

456
00:20:35,940 --> 00:20:32,940
and there's some steam coming out ok so

457
00:20:37,410 --> 00:20:35,950
in this case there's a couple of

458
00:20:40,440 --> 00:20:37,420
problems with the experiment and one is

459
00:20:43,830 --> 00:20:40,450
the thing looking at the temperature of

460
00:20:47,400 --> 00:20:43,840
the water coming out over time which the

461
00:20:50,970 --> 00:20:47,410
data has been provided in full to me

462
00:20:53,160 --> 00:20:50,980
indicates that has not so much in

463
00:20:54,690 --> 00:20:53,170

accordance with the nuclear reaction as

464

00:20:56,310 --> 00:20:54,700

it is with something else because for

465

00:20:59,220 --> 00:20:56,320

example there's 300 watts of electrical

466

00:21:00,540 --> 00:20:59,230

power going in at the start and the rate

467

00:21:03,210 --> 00:21:00,550

that the device is heating up at

468

00:21:04,890 --> 00:21:03,220

indicates that there 750 watts being

469

00:21:07,020 --> 00:21:04,900

dissipated in the device from the start

470

00:21:10,320 --> 00:21:07,030

hmm this is before the nuclear reaction

471

00:21:12,510 --> 00:21:10,330

kicks in while it's still cold so that's

472

00:21:14,850 --> 00:21:12,520

750 watts not 300 watts bit of a puzzle

473

00:21:16,230 --> 00:21:14,860

yeah and if it was a pure nuclear

474

00:21:19,470 --> 00:21:16,240

reaction that must already have kicked

475

00:21:23,040 --> 00:21:19,480

in at only 28 degrees C hasn't be quite

476

00:21:24,900 --> 00:21:23,050

scary because it means your reactants

477

00:21:26,370 --> 00:21:24,910

could start reacting at room temperature

478

00:21:30,840 --> 00:21:26,380

on holiday that should be rid of a

479

00:21:33,360 --> 00:21:30,850

Warren another thing is that that after

480

00:21:35,580 --> 00:21:33,370

a while the power suddenly goes up to

481

00:21:38,510 --> 00:21:35,590

the apparent power goes up to seventeen

482

00:21:41,370 --> 00:21:38,520

hundred Watts from 750 more than double

483

00:21:44,010 --> 00:21:41,380

instantly yeah change in slope of that

484

00:21:45,360 --> 00:21:44,020

at the temperature curve and this is

485

00:21:46,980 --> 00:21:45,370

very odd that a nuclear reaction would

486

00:21:50,430 --> 00:21:46,990

kick in so suddenly and double so

487

00:21:53,490 --> 00:21:50,440

suddenly in a bit later on the device

488

00:21:56,040 --> 00:21:53,500

cools down for 20 seconds I saw that in

489

00:21:57,870 --> 00:21:56,050

your chart yes is this a strange dip is

490

00:21:59,160 --> 00:21:57,880

now that's right that's bit odd to think

491

00:22:01,200 --> 00:21:59,170

that a nuclear reaction would suddenly

492

00:22:02,130 --> 00:22:01,210

decide is going to stop wait for 20

493

00:22:04,230 --> 00:22:02,140

seconds and resume

494

00:22:05,990 --> 00:22:04,240

at a higher level even though the it had

495

00:22:09,270 --> 00:22:06,000

cooled down in the meantime yeah right

496

00:22:11,390 --> 00:22:09,280

so that the theory the hypothesis that a

497

00:22:14,400 --> 00:22:11,400

real nuclear reaction looks very

498

00:22:17,520 --> 00:22:14,410

doubtful to me and to me it's more

499

00:22:19,830 --> 00:22:17,530

suggestive of someone fiddling with the

500

00:22:22,110 --> 00:22:19,840

electrical input if for example they

501
00:22:24,030 --> 00:22:22,120
started off with 750 watts not the state

502
00:22:27,120 --> 00:22:24,040
of 300 left it there for a couple of

503
00:22:30,360 --> 00:22:27,130
hours then connected it to a higher

504
00:22:33,150 --> 00:22:30,370
voltage so it produced more power 1700

505
00:22:35,460 --> 00:22:33,160
and then for 20 seconds they

506
00:22:37,410 --> 00:22:35,470
disconnected it from bad voltage supply

507
00:22:39,870 --> 00:22:37,420
reconnected it to a high voltage supply

508
00:22:41,820 --> 00:22:39,880
again that would fit the data much more

509
00:22:44,250 --> 00:22:41,830
better yeah I think so i'd say the

510
00:22:46,020 --> 00:22:44,260
alternative hypothesis is better

511
00:22:47,670 --> 00:22:46,030
supported than the nuclear reaction one

512
00:22:49,560 --> 00:22:47,680
who have its own in my opinion and I'm

513
00:22:52,380 --> 00:22:49,570

us with a disclaimer that if more data

514

00:22:55,830 --> 00:22:52,390

comes well then I can always change that

515

00:22:57,660 --> 00:22:55,840

view so it sounds to me though if for

516

00:23:00,450 --> 00:22:57,670

the sake of argument is think this guy

517

00:23:02,520 --> 00:23:00,460

has invented something which is works as

518

00:23:05,070 --> 00:23:02,530

he claimed it would be really really

519

00:23:07,260 --> 00:23:05,080

dangerous don't you think but you

520

00:23:08,820 --> 00:23:07,270

haven't heard Harvard epogen yeah this

521

00:23:10,020 --> 00:23:08,830

is a little device right the next

522

00:23:13,110 --> 00:23:10,030

demonstration was on a much bigger

523

00:23:14,790 --> 00:23:13,120

device you weighed 98 kilograms oh wow

524

00:23:18,120 --> 00:23:14,800

instead of four kilograms it's more than

525

00:23:20,100 --> 00:23:18,130

me but why you love me that's right I'm

526

00:23:21,690 --> 00:23:20,110

not going to believe this but if you to

527

00:23:24,600 --> 00:23:21,700

believe what he told the observers

528

00:23:25,950 --> 00:23:24,610

reported he turned on the heating device

529

00:23:27,720 --> 00:23:25,960

which is supposed to start the nuclear

530

00:23:30,060 --> 00:23:27,730

reaction two hours before it filled up

531

00:23:31,260 --> 00:23:30,070

with water so he's got the electrical

532

00:23:33,150 --> 00:23:31,270

heating going on while the water is

533

00:23:35,550 --> 00:23:33,160

being pumped into the chamber to imagine

534

00:23:38,220 --> 00:23:35,560

starting your car engine and taking two

535

00:23:41,340 --> 00:23:38,230

hours to fill a radiator it would cook

536

00:23:43,410 --> 00:23:41,350

and fry it very popular and if you and

537

00:23:46,110 --> 00:23:43,420

given the Rossi's claiming there's a

538

00:23:47,250 --> 00:23:46,120

nuclear reaction there imagine can you

539

00:23:49,110 --> 00:23:47,260

remember what happened to Three Mile

540

00:23:50,940 --> 00:23:49,120

Island and sure noble you're not good

541

00:23:54,120 --> 00:23:50,950

for kushina when they ran out of cooling

542

00:23:55,890 --> 00:23:54,130

water and it wasn't good not good so if

543

00:23:57,270 --> 00:23:55,900

this is really a nuclear reaction i'd be

544

00:23:58,920 --> 00:23:57,280

really a little bit worried about

545

00:24:01,050 --> 00:23:58,930

prossies approach to the whole thing and

546

00:24:03,930 --> 00:24:01,060

i was interested to seeing your note

547

00:24:06,050 --> 00:24:03,940

concerns you were raising it concerns is

548

00:24:09,360 --> 00:24:06,060

the right word about the lack of

549

00:24:13,080 --> 00:24:09,370

perceived radioactivity in the steam or

550

00:24:14,880 --> 00:24:13,090

the water yes like physics degree did

551
00:24:15,420 --> 00:24:14,890
add a little bit of nuclear physics in

552
00:24:18,390 --> 00:24:15,430
it

553
00:24:20,130 --> 00:24:18,400
and but I understand that if a real

554
00:24:22,140 --> 00:24:20,140
nuclear reaction is going on at a high

555
00:24:23,790 --> 00:24:22,150
enough level to produce power then all

556
00:24:25,860 --> 00:24:23,800
of the things around it will show some

557
00:24:27,870 --> 00:24:25,870
evidence of radioactivity afterwards

558
00:24:29,400 --> 00:24:27,880
yeah which needs to be guarded against

559
00:24:32,160 --> 00:24:29,410
yeah and you've got ways to dispose off

560
00:24:33,720 --> 00:24:32,170
yeah when Ross is running this device he

561
00:24:35,940 --> 00:24:33,730
holds the output hose in his hand

562
00:24:37,710 --> 00:24:35,950
admittedly a gloved hand to protect from

563
00:24:41,520 --> 00:24:37,720

the heat and he lets it run down the

564

00:24:44,520 --> 00:24:41,530

sink Oh No maybe the Italian authorities

565

00:24:46,560 --> 00:24:44,530

might like to hear about that so that's

566

00:24:49,830 --> 00:24:46,570

not another good indicator that there's

567

00:24:52,590 --> 00:24:49,840

a nuclear reaction going on no no it's

568

00:24:54,600 --> 00:24:52,600

not that no I will I hope not in this

569

00:24:56,820 --> 00:24:54,610

case I hope not if it is I hope that

570

00:24:59,760 --> 00:24:56,830

he's doing something better with the

571

00:25:03,420 --> 00:24:59,770

water now okay so you're up there at the

572

00:25:05,160 --> 00:25:03,430

meeting and you are able to to tell the

573

00:25:08,310 --> 00:25:05,170

audience and how many people actually

574

00:25:12,000 --> 00:25:08,320

came along about 70 wow that's quite a

575

00:25:14,190 --> 00:25:12,010

lot quite alone tell the audience from

576

00:25:17,610 --> 00:25:14,200

your point of view what you thought of

577

00:25:20,850 --> 00:25:17,620

the data so far and the engine and what

578

00:25:23,100 --> 00:25:20,860

have you how was how was the reaction

579

00:25:25,110 --> 00:25:23,110

then apart from the ones who walked out

580

00:25:27,030 --> 00:25:25,120

when you mention the vaccination network

581

00:25:31,410 --> 00:25:27,040

how are the how was the reaction then

582

00:25:35,700 --> 00:25:31,420

from the audience well when the

583

00:25:37,320 --> 00:25:35,710

Australian host so tried to shut me up

584

00:25:38,460 --> 00:25:37,330

by saying he thought we'd run out of

585

00:25:40,410 --> 00:25:38,470

time and we should leave room for

586

00:25:41,670 --> 00:25:40,420

questions some money all that let him

587

00:25:44,400 --> 00:25:41,680

finish I want to hear what he's got to

588

00:25:48,420 --> 00:25:44,410

say that was a good sign and they did

589

00:25:50,850 --> 00:25:48,430

hear me out to the end but they would

590

00:25:52,260 --> 00:25:50,860

there were quite a few questions the

591

00:25:53,820 --> 00:25:52,270

questions were about a third to do with

592

00:25:56,040 --> 00:25:53,830

the science of it and about two-thirds

593

00:25:58,590 --> 00:25:56,050

do with the finance so i guess the

594

00:25:59,730 --> 00:25:58,600

people questioning the science we had

595

00:26:01,110 --> 00:25:59,740

got through to them there's something

596

00:26:02,520 --> 00:26:01,120

wrong with the science beautiful

597

00:26:03,930 --> 00:26:02,530

questioning the finance that got over

598

00:26:05,130 --> 00:26:03,940

the science and were more interested in

599

00:26:07,770 --> 00:26:05,140

how the money was going to be

600

00:26:09,660 --> 00:26:07,780

distributed so it's a bit of a mixture

601
00:26:11,510 --> 00:26:09,670
there but i did get a bit of an idea of

602
00:26:14,250 --> 00:26:11,520
the demographic we were dealing with

603
00:26:16,650 --> 00:26:14,260
because i asked them i'd like to do a

604
00:26:18,240 --> 00:26:16,660
little survey here if you believe that

605
00:26:19,710 --> 00:26:18,250
the laws of physics as we understand

606
00:26:20,810 --> 00:26:19,720
them are correct can you put your hand

607
00:26:27,049 --> 00:26:20,820
up

608
00:26:28,490 --> 00:26:27,059
and then I said well if and now those

609
00:26:30,289 --> 00:26:28,500
who think the laws of physics as we

610
00:26:31,460 --> 00:26:30,299
understand them are completely wrong put

611
00:26:33,950 --> 00:26:31,470
your hand up and about twenty percent

612
00:26:35,600 --> 00:26:33,960
but their hand up good and then someone

613
00:26:37,909 --> 00:26:35,610

said look I think I can speak for most

614

00:26:39,350 --> 00:26:37,919

of us here what we believe is the laws

615

00:26:42,169 --> 00:26:39,360

of physics as we understand them might

616

00:26:44,120 --> 00:26:42,179

be might be valid because we see things

617

00:26:45,740 --> 00:26:44,130

around working but they're not complete

618

00:26:50,269 --> 00:26:45,750

there's more things to be discovered

619

00:26:52,100 --> 00:26:50,279

that could explain these things so there

620

00:26:53,899 --> 00:26:52,110

you go that was three that was the

621

00:26:55,940 --> 00:26:53,909

current paradigm which is a little bit

622

00:26:59,299 --> 00:26:55,950

from the heart of Sydney when I give

623

00:27:02,869 --> 00:26:59,309

talks here they very much hard-nosed

624

00:27:05,590 --> 00:27:02,879

well it's especially if they've come

625

00:27:07,970 --> 00:27:05,600

along to this meeting with the hope of

626
00:27:11,019 --> 00:27:07,980
finding something wonderful to invest

627
00:27:12,980 --> 00:27:11,029
their money in and with a mixture of

628
00:27:14,629 --> 00:27:12,990
motivations I would imagine there would

629
00:27:16,850 --> 00:27:14,639
be some there who had the eye for the

630
00:27:19,159 --> 00:27:16,860
for the investment opportunity to make

631
00:27:22,190 --> 00:27:19,169
money and I'm sure there were plenty of

632
00:27:23,769 --> 00:27:22,200
people there who wanted to invest in

633
00:27:28,269 --> 00:27:23,779
something that they thought could

634
00:27:34,820 --> 00:27:28,279
seriously help our society in our planet

635
00:27:36,440 --> 00:27:34,830
yes that threats very much present for

636
00:27:37,850 --> 00:27:36,450
nearly all of the people want to do

637
00:27:39,259 --> 00:27:37,860
something to help save the planet they

638
00:27:42,169 --> 00:27:39,269

fare very much in tune with the earth

639

00:27:44,720 --> 00:27:42,179

living among often among the hills along

640

00:27:46,220 --> 00:27:44,730

their mud brick in the mud brick houses

641

00:27:48,740 --> 00:27:46,230

and so forth in their little patch of

642

00:27:51,950 --> 00:27:48,750

rainforest yes so that's a quite

643

00:27:53,480 --> 00:27:51,960

positive thing to say well I mean in a

644

00:27:57,649 --> 00:27:53,490

lot of people's hearts are in the right

645

00:28:02,539 --> 00:27:57,659

place which is sometimes why it's hard

646

00:28:05,149 --> 00:28:02,549

for them to hear or accept something

647

00:28:07,639 --> 00:28:05,159

like The Skeptical point of view which

648

00:28:10,820 --> 00:28:07,649

says which would say yes wouldn't it be

649

00:28:14,450 --> 00:28:10,830

wonderful if this was the case however

650

00:28:17,119 --> 00:28:14,460

we can look at this in somewhat the cold

651
00:28:20,360 --> 00:28:17,129
hard light of day and find this probably

652
00:28:22,580 --> 00:28:20,370
not cold fusion at all that's right I

653
00:28:24,350 --> 00:28:22,590
would like if we have some overseas

654
00:28:27,230 --> 00:28:24,360
listeners from not in Australia I would

655
00:28:28,909 --> 00:28:27,240
like you to do me a favor perhaps you

656
00:28:31,970 --> 00:28:28,919
could do a little search to find out

657
00:28:33,650 --> 00:28:31,980
whether Rossi's ecat is being promoted

658
00:28:36,290 --> 00:28:33,660
in your own country

659
00:28:37,610 --> 00:28:36,300
and if you find out anything even a

660
00:28:39,170 --> 00:28:37,620
negative result could you let us know

661
00:28:42,710 --> 00:28:39,180
perhaps you could send an email to the

662
00:28:46,730 --> 00:28:42,720
Australian skeptics which is NSW at

663
00:28:48,590 --> 00:28:46,740

skeptics with a KOA you that's it folks

664

00:28:51,620 --> 00:28:48,600

if you're wherever you are in the world

665

00:28:54,620 --> 00:28:51,630

have a look around Google away you might

666

00:28:57,110 --> 00:28:54,630

have heard something Rossi and the e-cat

667

00:29:00,050 --> 00:28:57,120

energy device is a good energy catalyzed

668

00:29:01,700 --> 00:29:00,060

energy catalyzer and you can contact ian

669

00:29:06,260 --> 00:29:01,710

at that address you just mentioned

670

00:29:07,970 --> 00:29:06,270

that's NSW at skeptics calm a you and

671

00:29:10,850 --> 00:29:07,980

let him know if you've discovered

672

00:29:13,010 --> 00:29:10,860

anything if you're interested in a bit

673

00:29:15,290 --> 00:29:13,020

of further information the most

674

00:29:17,180 --> 00:29:15,300

comprehensive website fruit from a

675

00:29:21,650 --> 00:29:17,190

skeptical point of view that I've found

676

00:29:26,510 --> 00:29:21,660

that mentions Rossi's device is ESO

677

00:29:28,760 --> 00:29:26,520

watch ESO wa TCH if you do a little

678

00:29:30,620 --> 00:29:28,770

Google you'll find ESO watch and there's

679

00:29:32,420 --> 00:29:30,630

a they do have many skeptical topics

680

00:29:35,690 --> 00:29:32,430

they investigate including a very long

681

00:29:37,370 --> 00:29:35,700

article unless it's a cat great Willian

682

00:29:39,770 --> 00:29:37,380

this is just one of the long line of

683

00:29:42,680 --> 00:29:39,780

energy devices you've been looking into

684

00:29:45,410 --> 00:29:42,690

over something like 30 leading is yes we

685

00:29:48,230 --> 00:29:45,420

remember way back in decades passed over

686

00:29:51,440 --> 00:29:48,240

various fuel polarizers there were

687

00:29:53,390 --> 00:29:51,450

various pool cleaning devices that

688

00:29:55,460 --> 00:29:53,400

you've been in looking into and cars

689

00:29:57,320 --> 00:29:55,470

that run it on water and all sorts of in

690

00:29:59,210 --> 00:29:57,330

fact that was brought up at thee nothing

691

00:30:01,870 --> 00:29:59,220

been be meeting was it was it but what

692

00:30:05,780 --> 00:30:01,880

could I tell them about the hydrogen pad

693

00:30:06,950 --> 00:30:05,790

care that JBL p peterson was worse of

694

00:30:08,750 --> 00:30:06,960

them a bit about that night old necklace

695

00:30:11,690 --> 00:30:08,760

i think the first article i wrote for

696

00:30:14,120 --> 00:30:11,700

the skeptic got here that 1981 and after

697

00:30:17,080 --> 00:30:14,130

all these years is treated over three

698

00:30:19,520 --> 00:30:17,090

decades of investigating these things

699

00:30:21,830 --> 00:30:19,530

we've still yet to find the Holy Grail

700

00:30:23,390 --> 00:30:21,840

alone only the bat pot of gold at the

701
00:30:25,460 --> 00:30:23,400
end of the rainbow is very elusive

702
00:30:27,320 --> 00:30:25,470
that's right maybe that maybe instead

703
00:30:30,350 --> 00:30:27,330
Sciences as we find it in the world is

704
00:30:31,880 --> 00:30:30,360
as it appears to be and the way we need

705
00:30:34,340 --> 00:30:31,890
to save the planet is to use less energy

706
00:30:36,220 --> 00:30:34,350
and find renewable energy you've heard

707
00:30:38,150 --> 00:30:36,230
it here first folks ian bryce from

708
00:30:40,460 --> 00:30:38,160
australian skeptics our chief

709
00:30:42,040 --> 00:30:40,470
investigator great to have you back on

710
00:30:43,960 --> 00:30:42,050
the skeptic zone again and

711
00:30:45,820 --> 00:30:43,970
that will listeners if you know the free

712
00:30:49,390 --> 00:30:45,830
energy device or a wonderful energy

713
00:31:04,330 --> 00:30:49,400

saving device let you know Ian thank you

714

00:31:06,070 --> 00:31:04,340

[h__h] Richard this is ben Radford I'm

715

00:31:07,960 --> 00:31:06,080

deputy editor of skeptical inquirer

716

00:31:10,420 --> 00:31:07,970

science magazine author of six books

717

00:31:11,950 --> 00:31:10,430

including tracking chupacabra and you

718

00:31:19,270 --> 00:31:11,960

can find out more about me at Benjamin

719

00:31:21,160 --> 00:31:19,280

Radford com hi this is Tim Farley you

720

00:31:24,040 --> 00:31:21,170

probably know me from what's the harm

721

00:31:26,770 --> 00:31:24,050

net a catalog of the real world harm

722

00:31:29,710 --> 00:31:26,780

caused by lack of critical thinking but

723

00:31:32,710 --> 00:31:29,720

that's not my only project i present at

724

00:31:34,990 --> 00:31:32,720

skeptic events I post a daily skeptic

725

00:31:37,810 --> 00:31:35,000

history fact on Twitter and Facebook and

726

00:31:40,930 --> 00:31:37,820

I blog about using new techniques on the

727

00:31:44,110 --> 00:31:40,940

internet to advance skepticism come over

728

00:31:47,530 --> 00:31:44,120

to skip tools com and check out my

729

00:31:56,810 --> 00:31:47,540

latest ideas but first enjoy the rest of

730

00:32:01,290 --> 00:31:59,670

but two more your skipped again it

731

00:32:03,690 --> 00:32:01,300

depends on what what do you we're doing

732

00:32:05,610 --> 00:32:03,700

that but I am and people that talk to

733

00:32:07,350 --> 00:32:05,620

the afterlife and forecast the future

734

00:32:08,970 --> 00:32:07,360

i'm a total skeptic on that kind of

735

00:32:11,010 --> 00:32:08,980

thing what about alternative medicine

736

00:32:12,450 --> 00:32:11,020

sometimes sure they are magnetic

737

00:32:14,760 --> 00:32:12,460

mattresses that had me a bit puzzled

738

00:32:16,140 --> 00:32:14,770

edge or well Loretta Marin is the

739

00:32:18,150 --> 00:32:16,150

Australian skeptic of the year for the

740

00:32:20,490 --> 00:32:18,160

second time and she is continuing her

741

00:32:22,560 --> 00:32:20,500

campaign against unproven alternative

742

00:32:24,480 --> 00:32:22,570

medicines and practices and she's also

743

00:32:27,510 --> 00:32:24,490

the inaugural chief executive officer of

744

00:32:29,790 --> 00:32:27,520

friends of science in medicine she joins

745

00:32:32,010 --> 00:32:29,800

us now hi Loretta how are you very well

746

00:32:34,290 --> 00:32:32,020

now you've had a long-running battle to

747

00:32:36,330 --> 00:32:34,300

expose for jilat claims and things like

748

00:32:38,220 --> 00:32:36,340

that why did you start your campaign

749

00:32:40,230 --> 00:32:38,230

against alternative medicines well i

750

00:32:42,750 --> 00:32:40,240

think it was when i was diagnosed with

751

00:32:44,670 --> 00:32:42,760

breast cancer and that was 2003 and

752

00:32:47,700 --> 00:32:44,680

thanks to modern medicine i'm still here

753

00:32:50,280 --> 00:32:47,710

and my background is physics and

754

00:32:53,130 --> 00:32:50,290

computers so medicine was never of

755

00:32:54,780 --> 00:32:53,140

interest to me I kept I've always eatin

756

00:32:58,230 --> 00:32:54,790

healthy and being quite athletic and all

757

00:33:00,480 --> 00:32:58,240

the rest of it as most of us are yes and

758

00:33:02,670 --> 00:33:00,490

but once I walk through that cancer door

759

00:33:04,620 --> 00:33:02,680

I went to a whole new world and it was

760

00:33:06,870 --> 00:33:04,630

you know voodoo and witchcraft and

761

00:33:08,910 --> 00:33:06,880

really no sin credibly vulnerable people

762

00:33:10,740 --> 00:33:08,920

I've ever seen just sitting there

763

00:33:13,530 --> 00:33:10,750

perched on their the edges of their

764

00:33:16,680 --> 00:33:13,540

chest listening to information that was

765

00:33:19,080 --> 00:33:16,690

just so wrong whereabouts was known as

766

00:33:20,670 --> 00:33:19,090

emotions being dished out well the sad

767

00:33:23,190 --> 00:33:20,680

thing is it was at my local breast

768

00:33:24,750 --> 00:33:23,200

cancer support group Rosa and I went

769

00:33:26,610 --> 00:33:24,760

along there to listen to the local

770

00:33:28,980 --> 00:33:26,620

friendly naturopathy for lovely fluffy

771

00:33:31,680 --> 00:33:28,990

people right very nice friendly girl and

772

00:33:33,600 --> 00:33:31,690

she started and just would not stop

773

00:33:35,910 --> 00:33:33,610

attacking doctors you know thing they're

774

00:33:37,890 --> 00:33:35,920

owned by the drug companies and and she

775

00:33:40,680 --> 00:33:37,900

attacked everything you wait you know no

776

00:33:42,270 --> 00:33:40,690

no dairy no alcohol well that was that

777

00:33:45,870 --> 00:33:42,280

was a bit of a tough one don't eat

778

00:33:47,940 --> 00:33:45,880

anything wyd eat everything purple kin

779

00:33:50,400 --> 00:33:47,950

food has no nutrition microwave food is

780

00:33:53,370 --> 00:33:50,410

no nutrition just went on and on and on

781

00:33:56,520 --> 00:33:53,380

and then she started to sell product she

782

00:33:58,470 --> 00:33:56,530

held up a big container of soy and one

783

00:34:00,840 --> 00:33:58,480

woman now these women have just been

784

00:34:02,430 --> 00:34:00,850

treated for cancer and they're bored and

785

00:34:04,530 --> 00:34:02,440

they've got tubes hanging off them and

786

00:34:06,300 --> 00:34:04,540

one woman said oh my oncologist said I

787

00:34:08,220 --> 00:34:06,310

shouldn't be having too much though

788

00:34:10,140 --> 00:34:08,230

because of the type of cancer I him and

789

00:34:13,020 --> 00:34:10,150

he said take any advice from your doctor

790

00:34:14,940 --> 00:34:13,030

with a grain of salt Oh women for years

791

00:34:17,040 --> 00:34:14,950

nutrition and they've only done 12 hours

792

00:34:20,430 --> 00:34:17,050

or something like that and I said to her

793

00:34:22,800 --> 00:34:20,440

I i mean i was taking notes because one

794

00:34:24,360 --> 00:34:22,810

thing I'm being no skeptic is about

795

00:34:25,800 --> 00:34:24,370

we're all skeptics but you know I'm not

796

00:34:27,300 --> 00:34:25,810

going to get an electrician around

797

00:34:29,850 --> 00:34:27,310

without checking out that he's got some

798

00:34:32,220 --> 00:34:29,860

qualifications oh yeah but people will

799

00:34:34,110 --> 00:34:32,230

turn up to some alternatives clinic and

800

00:34:36,720 --> 00:34:34,120

one guy had a swimming certificate on

801
00:34:37,860 --> 00:34:36,730
the wall I mean it looked impressive but

802
00:34:39,840 --> 00:34:37,870
I didn't even notice that and that

803
00:34:41,790 --> 00:34:39,850
someone said just one certificate so we

804
00:34:43,440 --> 00:34:41,800
don't check their qualifications we look

805
00:34:46,740 --> 00:34:43,450
at the front of the shop and we walk in

806
00:34:50,490 --> 00:34:46,750
and yes so go with a cancer sufferer

807
00:34:53,190 --> 00:34:50,500
it's a you're desperate well that's

808
00:34:54,840 --> 00:34:53,200
right and as I say with these were in

809
00:34:57,240 --> 00:34:54,850
these ladies invited this girl back

810
00:34:59,040 --> 00:34:57,250
twice so I took all the notes and I went

811
00:35:00,000 --> 00:34:59,050
home and I looked up what she said cuz I

812
00:35:02,100 --> 00:35:00,010
thought well this is interesting I

813
00:35:04,800 --> 00:35:02,110

didn't know that and I found out pretty

814

00:35:06,660 --> 00:35:04,810

well all of it was wrong and I thought

815

00:35:08,250 --> 00:35:06,670

these women now if you've got cancer the

816

00:35:10,410 --> 00:35:08,260

last thing you want to be doing is going

817

00:35:11,910 --> 00:35:10,420

on a restricted done you should be

818

00:35:14,040 --> 00:35:11,920

eating healthy you shouldn't be giving

819

00:35:15,630 --> 00:35:14,050

up all your favorite foods and you're

820

00:35:18,150 --> 00:35:15,640

allowed an occasional glass of wine for

821

00:35:20,790 --> 00:35:18,160

medicinal purposes do you think they

822

00:35:22,680 --> 00:35:20,800

were giving some of the patients false

823

00:35:26,070 --> 00:35:22,690

hope that if they tried this other thing

824

00:35:27,990 --> 00:35:26,080

nah be cured this particular girl wasn't

825

00:35:29,760 --> 00:35:28,000

but I have actually gone to to

826

00:35:31,350 --> 00:35:29,770

practitioners the current affair invited

827

00:35:34,710 --> 00:35:31,360

me to go undercover and I actually

828

00:35:36,990 --> 00:35:34,720

watched I went to makai a woman who was

829

00:35:38,820 --> 00:35:37,000

putting bleach dilute bleach into people

830

00:35:41,400 --> 00:35:38,830

thanks telling them that it would cure

831

00:35:43,170 --> 00:35:41,410

they can't say and I mean I came home

832

00:35:46,740 --> 00:35:43,180

because I couldn't say anything because

833

00:35:48,510 --> 00:35:46,750

my job was to actually somehow show it

834

00:35:51,840 --> 00:35:48,520

on film you know God you've got the

835

00:35:53,430 --> 00:35:51,850

handbag with the camera and came out

836

00:35:55,860 --> 00:35:53,440

with shingles after that but I got home

837

00:35:57,450 --> 00:35:55,870

and I had to ring up my oncologist and

838

00:35:58,560 --> 00:35:57,460

say what do i do and she said report

839

00:36:01,170 --> 00:35:58,570

straight away and they did shut the

840

00:36:04,500 --> 00:36:01,180

woman down and and this woman was you

841

00:36:06,270 --> 00:36:04,510

know this poor patient was dying and i'm

842

00:36:08,100 --> 00:36:06,280

loosing to the practitioner saying oh

843

00:36:09,870 --> 00:36:08,110

yes you can you know it's got really

844

00:36:11,700 --> 00:36:09,880

your brain tumor now it's working on

845

00:36:13,320 --> 00:36:11,710

your breath to Manaus doing all this and

846

00:36:15,090 --> 00:36:13,330

I'll hair green and the woman saying yes

847

00:36:16,680 --> 00:36:15,100

yes I can feel it I can feel it and

848

00:36:18,500 --> 00:36:16,690

paying heaps of money for the service

849

00:36:20,270 --> 00:36:18,510

only three thousand dollars

850

00:36:22,220 --> 00:36:20,280

heavens above now the friends of science

851
00:36:23,630 --> 00:36:22,230
and medicine the skeptic of the year two

852
00:36:25,610 --> 00:36:23,640
years running there and for the second

853
00:36:27,680 --> 00:36:25,620
year that you campaigned against a

854
00:36:29,840 --> 00:36:27,690
different element of medicine and its

855
00:36:32,830 --> 00:36:29,850
fundamental chiropractors well what

856
00:36:35,330 --> 00:36:32,840
happened is chiropractors are documented

857
00:36:36,800 --> 00:36:35,340
15 new south wales websites are you

858
00:36:39,500 --> 00:36:36,810
always do New South Wales because it's

859
00:36:41,870 --> 00:36:39,510
close to Canberra and I think it's close

860
00:36:44,570 --> 00:36:41,880
to the politicians and every single one

861
00:36:46,160 --> 00:36:44,580
of them this was only found 51 and every

862
00:36:48,200 --> 00:36:46,170
fifty one of them on the web claimed

863
00:36:51,680 --> 00:36:48,210

that chiropractic could be used to treat

864

00:36:53,570 --> 00:36:51,690

ADHD asthma allergies bedwetting colic

865

00:36:55,580 --> 00:36:53,580

in ear infection and some of them even

866

00:36:57,530 --> 00:36:55,590

claimed it was an effective alternative

867

00:36:59,300 --> 00:36:57,540

to vaccination this is just spinal

868

00:37:01,910 --> 00:36:59,310

manipulation and this is what they call

869

00:37:04,850 --> 00:37:01,920

fundamentalist chiropractic and then I

870

00:37:06,920 --> 00:37:04,860

documented 30 websites in Victoria they

871

00:37:08,990 --> 00:37:06,930

all said the same and a whole budget can

872

00:37:10,640 --> 00:37:09,000

I think in Queensland and they said the

873

00:37:13,040 --> 00:37:10,650

same again and I thought why they all

874

00:37:14,810 --> 00:37:13,050

saying this is not bad people and I

875

00:37:17,390 --> 00:37:14,820

realized they were teaching it in the

876

00:37:19,850 --> 00:37:17,400

University and I tracked down to RMIT

877

00:37:22,760 --> 00:37:19,860

and they had a pediatric chiropractic

878

00:37:24,440 --> 00:37:22,770

clinic and I tracked down one of the

879

00:37:26,780 --> 00:37:24,450

people teaching in it and of course she

880

00:37:29,900 --> 00:37:26,790

said she teaches the students 88 how to

881

00:37:31,520 --> 00:37:29,910

treat ADHD ethnology bedwetting calling

882

00:37:33,170 --> 00:37:31,530

a fool total nonsense that's

883

00:37:34,730 --> 00:37:33,180

fundamentalist chiropractor that's not

884

00:37:37,670 --> 00:37:34,740

the good guy that looks after your back

885

00:37:39,560 --> 00:37:37,680

he's fine but it's when they go to the

886

00:37:41,540 --> 00:37:39,570

dark side and start to make these claims

887

00:37:43,220 --> 00:37:41,550

on very vulnerable parents you imagine

888

00:37:44,870 --> 00:37:43,230

you've just had a baby you go in there

889

00:37:46,550 --> 00:37:44,880

and he says oh don't vaccinate because

890

00:37:49,250 --> 00:37:46,560

your child's going to get autism and I

891

00:37:50,840 --> 00:37:49,260

have its effect of alternatives so I

892

00:37:53,840 --> 00:37:50,850

actually wrote a report to the health

893

00:37:54,920 --> 00:37:53,850

minister and that went global that got

894

00:37:57,770 --> 00:37:54,930

mentioned in the British Medical Journal

895

00:38:00,160 --> 00:37:57,780

and I asked them to shut the

896

00:38:02,930 --> 00:38:00,170

chiropractic clinic down and investigate

897

00:38:05,360 --> 00:38:02,940

chiropractic in Australia and of course

898

00:38:07,280 --> 00:38:05,370

they did nothing they refer it on but

899

00:38:09,110 --> 00:38:07,290

even so at least that way it brought it

900

00:38:10,820 --> 00:38:09,120

out and suddenly pediatricians came out

901
00:38:13,520 --> 00:38:10,830
and very good chiropractic came at

902
00:38:14,900 --> 00:38:13,530
offering support me which I you know

903
00:38:16,880 --> 00:38:14,910
when I got one from a chiropractor lot

904
00:38:19,370 --> 00:38:16,890
always done for is no i said i'll offer

905
00:38:21,080 --> 00:38:19,380
you help you said i don't want us to be

906
00:38:23,450 --> 00:38:21,090
seen like this i want us to be seen the

907
00:38:25,610 --> 00:38:23,460
non-surgical back specialist not all

908
00:38:27,740 --> 00:38:25,620
this whoo-whoop stuff and then i found

909
00:38:30,380 --> 00:38:27,750
they were running courses teaching

910
00:38:32,240 --> 00:38:30,390
practicing chiropractors how to enlist

911
00:38:34,280 --> 00:38:32,250
local nurses

912
00:38:36,920 --> 00:38:34,290
to get most of their businesses to be

913
00:38:40,820 --> 00:38:36,930

children and babies this is manipulating

914

00:38:42,260 --> 00:38:40,830

newborn babies and they run semin these

915

00:38:43,550 --> 00:38:42,270

people the chiropractors are not

916

00:38:45,620 --> 00:38:43,560

vaccinated they don't have to be

917

00:38:48,920 --> 00:38:45,630

vaccinated and they would be running

918

00:38:50,810 --> 00:38:48,930

seminars after hours to tell the mothers

919

00:38:52,340 --> 00:38:50,820

and new mums and these poor women are so

920

00:38:53,630 --> 00:38:52,350

precious and their babies are so

921

00:38:56,000 --> 00:38:53,640

precious mixing with all these other

922

00:38:58,370 --> 00:38:56,010

babies and we've got rampant whooping

923

00:39:00,860 --> 00:38:58,380

cough my niece's wife just had a baby

924

00:39:02,270 --> 00:39:00,870

she was terrified the first six weeks

925

00:39:04,430 --> 00:39:02,280

her baby would catch whooping cough

926
00:39:07,340 --> 00:39:04,440
because she lives in a low vaccination

927
00:39:09,830 --> 00:39:07,350
area fortunately it didn't both of six

928
00:39:12,710 --> 00:39:09,840
weeks she should have been just enjoying

929
00:39:14,300 --> 00:39:12,720
motherhood I can imagine that dying baby

930
00:39:17,150 --> 00:39:14,310
fair don't yes oh I found out the guy

931
00:39:20,030 --> 00:39:17,160
that ran this course he stood down from

932
00:39:21,710 --> 00:39:20,040
RMIT and he moved to Queensland and is

933
00:39:24,050 --> 00:39:21,720
now setting up the central queensland

934
00:39:26,840 --> 00:39:24,060
university course chiropractic under a

935
00:39:29,150 --> 00:39:26,850
Bachelor of Science mind you laughing

936
00:39:31,250 --> 00:39:29,160
this year so I alerted the professor's

937
00:39:34,520 --> 00:39:31,260
that this was happening so they then

938
00:39:36,050 --> 00:39:34,530

enlisted 34th their colleagues and wrote

939

00:39:38,780 --> 00:39:36,060

a letter to the central Queensland

940

00:39:42,560 --> 00:39:38,790

University asking them to rethink this

941

00:39:45,440 --> 00:39:42,570

degree they then realized that 19 of our

942

00:39:48,830 --> 00:39:45,450

39 universities are running courses Kim

943

00:39:50,450 --> 00:39:48,840

to witchcraft voodoo often masquerading

944

00:39:52,610 --> 00:39:50,460

as science there's a lot of money in it

945

00:39:55,750 --> 00:39:52,620

even though I can't understand that this

946

00:39:58,280 --> 00:39:55,760

there's surely these controls that these

947

00:40:00,530 --> 00:39:58,290

charlatans are out there you know trying

948

00:40:03,290 --> 00:40:00,540

to make money out of basically basically

949

00:40:05,600 --> 00:40:03,300

nonsense no no control I put it

950

00:40:07,040 --> 00:40:05,610

complaint in against a Chinese

951

00:40:09,620 --> 00:40:07,050

practitioner claiming he could cure

952

00:40:11,330 --> 00:40:09,630

cancer on his website without a patient

953

00:40:13,340 --> 00:40:11,340

there's nothing they can do it won't

954

00:40:15,920 --> 00:40:13,350

hold up in court so they just said look

955

00:40:17,450 --> 00:40:15,930

just his opinion nothing they can do but

956

00:40:19,910 --> 00:40:17,460

there are no control so the one thing

957

00:40:23,270 --> 00:40:19,920

I've tried to do is ask the TGA to

958

00:40:25,370 --> 00:40:23,280

cancel a devices for example that you go

959

00:40:27,800 --> 00:40:25,380

you let you can go to your local natural

960

00:40:30,110 --> 00:40:27,810

therapist for a consultation which you

961

00:40:32,840 --> 00:40:30,120

can claim off your health fund the next

962

00:40:34,310 --> 00:40:32,850

thing you'll be on a machine which is a

963

00:40:35,870 --> 00:40:34,320

high-tech wizardry that's going to

964

00:40:37,670 --> 00:40:35,880

diagnose all that ails you your

965

00:40:39,380 --> 00:40:37,680

allergies your nutritional deficiencies

966

00:40:41,330 --> 00:40:39,390

and you'll stagger out the door with all

967

00:40:43,610 --> 00:40:41,340

these bottles of things because that's

968

00:40:45,890 --> 00:40:43,620

what they make their money on filling

969

00:40:48,200 --> 00:40:45,900

all the pills and potions and if I say

970

00:40:49,910 --> 00:40:48,210

you don't get better straight away they

971

00:40:51,740 --> 00:40:49,920

say look you know come on back so they

972

00:40:53,150 --> 00:40:51,750

people keep coming back for treatments

973

00:40:56,750 --> 00:40:53,160

that don't work spending an awful lot of

974

00:40:58,400 --> 00:40:56,760

money they don't have and they also know

975

00:41:00,800 --> 00:40:58,410

them on a first-name basis I hear them

976
00:41:03,920 --> 00:41:00,810
saying old Danny my kinesiologist you

977
00:41:06,050 --> 00:41:03,930
know or store my naturopath well your

978
00:41:07,520 --> 00:41:06,060
doctor can't do that the doctors in and

979
00:41:09,290 --> 00:41:07,530
out in six minutes and if they're longer

980
00:41:11,570 --> 00:41:09,300
than that then they're investigated by

981
00:41:13,580 --> 00:41:11,580
Medicare yes I can imagine you probably

982
00:41:15,770 --> 00:41:13,590
tried to be people probably tried to run

983
00:41:17,450 --> 00:41:15,780
you out of town oh well not something I

984
00:41:19,190 --> 00:41:17,460
tried to work from a basis of evidence

985
00:41:21,650 --> 00:41:19,200
so I kept you said to me I went to an

986
00:41:23,540 --> 00:41:21,660
acupuncturist and gone six sessions I

987
00:41:25,010 --> 00:41:23,550
will send you the research so you can

988
00:41:27,350 --> 00:41:25,020

make an informed choice it's not about

989

00:41:28,850 --> 00:41:27,360

what I think even though I do have an

990

00:41:32,720 --> 00:41:28,860

opinion after a couple of drinks offered

991

00:41:34,580 --> 00:41:32,730

and also Loretta I know people who you

992

00:41:36,650 --> 00:41:34,590

know they won't take the kids to the

993

00:41:38,090 --> 00:41:36,660

doctors that you always forever running

994

00:41:40,370 --> 00:41:38,100

to the naturopath there's a good natural

995

00:41:41,720 --> 00:41:40,380

person I think I've been to natural

996

00:41:45,080 --> 00:41:41,730

perhaps so you know I go every now and

997

00:41:46,400 --> 00:41:45,090

again but I I sometimes thinks look look

998

00:41:48,710 --> 00:41:46,410

if it's a cold and the child's not

999

00:41:50,540 --> 00:41:48,720

getting any better go to the doctor

1000

00:41:52,280 --> 00:41:50,550

personal medicine that's right well an

1001
00:41:54,470 --> 00:41:52,290
extra pass can give you good nutritional

1002
00:41:56,360 --> 00:41:54,480
advice do they come out of university

1003
00:41:58,010 --> 00:41:56,370
this is what really stuns me there's

1004
00:42:01,430 --> 00:41:58,020
some really great courses that they

1005
00:42:03,170 --> 00:42:01,440
can't in a different subject the store

1006
00:42:05,000 --> 00:42:03,180
when they come out the temptation is

1007
00:42:07,430 --> 00:42:05,010
there's not a lot of money and just

1008
00:42:09,830 --> 00:42:07,440
giving advice and these like these

1009
00:42:11,390 --> 00:42:09,840
people that sell these machines they're

1010
00:42:14,750 --> 00:42:11,400
overseas machines so they've got

1011
00:42:16,160 --> 00:42:14,760
European Union certificates the TTA the

1012
00:42:17,720 --> 00:42:16,170
Therapeutic Goods Administration is the

1013
00:42:19,580 --> 00:42:17,730

regulator is obliged to take the

1014

00:42:21,230 --> 00:42:19,590

machines so the sponsors of these

1015

00:42:23,240 --> 00:42:21,240

machines will contact the naturopath

1016

00:42:25,340 --> 00:42:23,250

saying look here's a machine for 25,000

1017

00:42:26,990 --> 00:42:25,350

you can get a hundred thousand dollars a

1018

00:42:28,670 --> 00:42:27,000

year or in this machine they'll show

1019

00:42:30,440 --> 00:42:28,680

them how and they'll finance the machine

1020

00:42:32,090 --> 00:42:30,450

well if you're a naturopathic and you

1021

00:42:34,310 --> 00:42:32,100

think wow this is all legitimate easy

1022

00:42:35,960 --> 00:42:34,320

money yes I will do and how good am I to

1023

00:42:37,760 --> 00:42:35,970

my patients that I'm offering them all

1024

00:42:39,980 --> 00:42:37,770

these diagnostics and really all they

1025

00:42:41,270 --> 00:42:39,990

are is high-tech wizardry yeah that's

1026

00:42:42,710 --> 00:42:41,280

not the teeth whitening machines are

1027

00:42:44,990 --> 00:42:42,720

good out there as well isn't it yeah and

1028

00:42:47,150 --> 00:42:45,000

part of my problem is I can't often get

1029

00:42:48,890 --> 00:42:47,160

patients to come forward to have been

1030

00:42:52,040 --> 00:42:48,900

treated badly for cancer because they're

1031

00:42:55,040 --> 00:42:52,050

dead you look at Steve Jobs and we'll

1032

00:42:57,560 --> 00:42:55,050

CEO he went on homeopathy it didn't kill

1033

00:42:59,330 --> 00:42:57,570

him but he was quite favorable at the

1034

00:42:59,900 --> 00:42:59,340

beginning he was potentially curable he

1035

00:43:01,880 --> 00:42:59,910

had a unique

1036

00:43:04,880 --> 00:43:01,890

can't be cancer but even he admitted

1037

00:43:07,130 --> 00:43:04,890

he'd made a mistake and that's the

1038

00:43:09,109 --> 00:43:07,140

tragedy of it it's bad enough when and

1039

00:43:10,490 --> 00:43:09,119

that's the worst thing if people can be

1040

00:43:12,650 --> 00:43:10,500

saved and they do it I mean one of my

1041

00:43:14,210 --> 00:43:12,660

very good friends this was diagnosed a

1042

00:43:16,370 --> 00:43:14,220

year or two before me so I didn't know

1043

00:43:19,309 --> 00:43:16,380

much of that to cancer went on wheat

1044

00:43:21,260 --> 00:43:19,319

grass this is up the sunshine coast they

1045

00:43:23,390 --> 00:43:21,270

had diagnosed him accidentally with an

1046

00:43:25,849 --> 00:43:23,400

x-ray and it was a tiny lesion about

1047

00:43:28,250 --> 00:43:25,859

size of the five-cent coin and they

1048

00:43:30,289 --> 00:43:28,260

could have cured him no he died because

1049

00:43:32,720 --> 00:43:30,299

he went on the wheatgrass and even all

1050

00:43:34,190 --> 00:43:32,730

the ways tell him he's cured and by then

1051

00:43:37,010 --> 00:43:34,200

I was diagnosed and I thought well

1052

00:43:39,020 --> 00:43:37,020

that's good i don't understand it and of

1053

00:43:41,420 --> 00:43:39,030

course then he died a few months later

1054

00:43:44,450 --> 00:43:41,430

and i just have story after story

1055

00:43:46,250 --> 00:43:44,460

usually from families loved ones saying

1056

00:43:48,200 --> 00:43:46,260

you know my sister went and she did this

1057

00:43:49,880 --> 00:43:48,210

and i went along with her and it was

1058

00:43:52,309 --> 00:43:49,890

really cool you know bone start

1059

00:43:53,660 --> 00:43:52,319

dissolving and awful you know sis cancer

1060

00:43:55,339 --> 00:43:53,670

spreads and they still going to the home

1061

00:43:56,990 --> 00:43:55,349

you pack and all them but that was it

1062

00:44:00,260 --> 00:43:57,000

the homeopath told me he could cure me

1063

00:44:03,140 --> 00:44:00,270

this was one algester he could keep that

1064

00:44:04,940 --> 00:44:03,150

was undercover again and he could kill

1065

00:44:06,680 --> 00:44:04,950

me of cancer with homeopathy we sit you

1066

00:44:09,289 --> 00:44:06,690

know the memory of a flower and some

1067

00:44:12,349 --> 00:44:09,299

other you know and also a cancer cell

1068

00:44:14,299 --> 00:44:12,359

the memory of a cancer cell and so we

1069

00:44:16,430 --> 00:44:14,309

were able to take those product with us

1070

00:44:18,529 --> 00:44:16,440

but this is the guy telling me not to

1071

00:44:19,789 --> 00:44:18,539

have cancer treatment cuz i could

1072

00:44:22,519 --> 00:44:19,799

legitimately say I've being diagnosed

1073

00:44:24,349 --> 00:44:22,529

with breast cancer what can you do for

1074

00:44:27,620 --> 00:44:24,359

me and that's you know because I'm not

1075

00:44:29,510 --> 00:44:27,630

very good at line so and that's why they

1076

00:44:31,420 --> 00:44:29,520

like me to go undercover but my cover

1077

00:44:33,650 --> 00:44:31,430

could be blown there I think it might be

1078

00:44:37,430 --> 00:44:33,660

great thanks for talking to talk again

1079

00:44:39,589 --> 00:44:37,440

soon I website at wwlp.com data you

1080

00:44:41,299 --> 00:44:39,599

that's health information one word it

1081

00:44:43,970 --> 00:44:41,309

doesn't sell anything doesn't advertise

1082

00:44:45,710 --> 00:44:43,980

just over 400 very good link so people

1083

00:44:47,180 --> 00:44:45,720

can have a look missing father was the

1084

00:44:48,980 --> 00:44:47,190

two supporters like Professor Ian phrase

1085

00:44:50,000 --> 00:44:48,990

or at least 30 order of Australian so

1086

00:44:51,500 --> 00:44:50,010

well thanks for talking to us we'll talk

1087

00:44:53,180 --> 00:44:51,510

again soon Loretta good on you thank you

1088

00:45:07,049 --> 00:44:53,190

Liberty Marin there the inaugural chief

1089

00:45:13,059 --> 00:45:10,359

have you heard about QED the exciting

1090

00:45:15,519 --> 00:45:13,069

skeptical conference 10 11 4 March 2012

1091

00:45:17,799 --> 00:45:15,529

quite exciting days you're probably

1092

00:45:19,989 --> 00:45:17,809

wondering why should i go to QED while

1093

00:45:21,789 --> 00:45:19,999

the existential dilemma will have the

1094

00:45:23,439 --> 00:45:21,799

investigator and legend joe nickell

1095

00:45:25,569 --> 00:45:23,449

quite extraordinary detective

1096

00:45:28,179 --> 00:45:25,579

alternative medicine expert Ed's orders

1097

00:45:29,919 --> 00:45:28,189

quacks in Deward difficulties monsters

1098

00:45:32,189 --> 00:45:29,929

werewolves and lucid dreaming from

1099

00:45:34,659 --> 00:45:32,199

Deborah high working eerie demons

1100

00:45:37,299 --> 00:45:34,669

Massimo polidoro head of the

1101
00:45:39,099 --> 00:45:37,309
intelligence questo agrees yogurt or a

1102
00:45:42,009 --> 00:45:39,109
tape it or an eviction conspiracy

1103
00:45:44,559 --> 00:45:42,019
theories ytb doubles secular campaign of

1104
00:45:46,269 --> 00:45:44,569
Miriam namazi well equality detractors

1105
00:45:48,099 --> 00:45:46,279
Sarah angliss will show us how to play

1106
00:45:50,979 --> 00:45:48,109
the Federman with robots withering

1107
00:45:53,259 --> 00:45:50,989
electronic devices ufologist II and red

1108
00:45:55,179 --> 00:45:53,269
path with extraterrestrial details there

1109
00:45:56,919 --> 00:45:55,189
fester Steve Jones and white creationism

1110
00:45:58,689 --> 00:45:56,929
is known to quieten evolution deniers

1111
00:46:00,999 --> 00:45:58,699
podcaster and spoon bender Richard

1112
00:46:03,069 --> 00:46:01,009
Saunders questions ESP demonstrations

1113
00:46:05,409 --> 00:46:03,079

for a filia Benson Queen existentialist

1114

00:46:07,509 --> 00:46:05,419

debater and we'll have comedy from Robin

1115

00:46:09,549 --> 00:46:07,519

Ince and gas quality into tim and

1116

00:46:11,499 --> 00:46:09,559

definitely tickets are 89 pounds and

1117

00:46:15,429 --> 00:46:11,509

they're going fast so re queue everybody

1118

00:46:18,389 --> 00:46:15,439

directly would you cut that out you can

1119

00:46:21,669 --> 00:46:18,399

get your ticket from QED calm dot org

1120

00:46:23,529 --> 00:46:21,679

court events dorm in marsh seriously if

1121

00:46:26,169 --> 00:46:23,539

you don't stop bangin up too quickly end

1122

00:46:43,700 --> 00:46:26,179

discussion comes QED Manchester question

1123

00:46:50,970 --> 00:46:46,410

thank you for listening to this episode

1124

00:46:54,180 --> 00:46:50,980

of the skeptic zone now to whet your

1125

00:46:57,090 --> 00:46:54,190

appetite there are more there has been

1126
00:47:00,450 --> 00:46:57,100
more developments in Ian Bryce's

1127
00:47:03,090 --> 00:47:00,460
investigation into the e-cat cold fusion

1128
00:47:05,430 --> 00:47:03,100
type technology it's a little bit under

1129
00:47:09,390 --> 00:47:05,440
wraps now means further investigations

1130
00:47:11,670 --> 00:47:09,400
as soon as we can as soon as we can

1131
00:47:14,030 --> 00:47:11,680
we'll be telling you more about this

1132
00:47:16,920 --> 00:47:14,040
fascinating story this interesting

1133
00:47:19,950 --> 00:47:16,930
investigation so look out for that and

1134
00:47:23,610 --> 00:47:19,960
look out for next week's skeptic zone

1135
00:47:26,310 --> 00:47:23,620
where we will be visiting the National

1136
00:47:28,410 --> 00:47:26,320
Center for Science Education which is in

1137
00:47:30,840 --> 00:47:28,420
open not far away from where i am at the

1138
00:47:34,380 --> 00:47:30,850

moment and to talk to our dear friend

1139

00:47:36,630 --> 00:47:34,390

dr. Eugenie Scott about her efforts and

1140

00:47:39,870 --> 00:47:36,640

the center's efforts into helping

1141

00:47:43,920 --> 00:47:39,880

preserve science education by fighting

1142

00:47:47,160 --> 00:47:43,930

the attempts by creationists to insert

1143

00:47:49,950 --> 00:47:47,170

then drove all into the American school

1144

00:47:53,160 --> 00:47:49,960

system can't wait for that going to be

1145

00:47:54,960 --> 00:47:53,170

visiting that Center in a few days well

1146

00:47:58,020 --> 00:47:54,970

I think it's time for another hot

1147

00:48:00,330 --> 00:47:58,030

chocolate yeah why not and thank you

1148

00:48:03,930 --> 00:48:00,340

once again for listening to this week's

1149

00:48:05,730 --> 00:48:03,940

episode of the skeptic zone until next

1150

00:48:08,550 --> 00:48:05,740

week this is Richard Saunders signing

1151

00:48:15,590 --> 00:48:08,560

off looking for my rowboat signing off

1152

00:48:23,010 --> 00:48:18,000

you've been listening to the skeptic

1153

00:48:26,790 --> 00:48:23,020

zone visit our website at www.skeptics