

**SKEPTIC
ZONE**



**THINKING CAPS
MUST BE WORN
IN THIS AREA**

The
Podcast
from
Australia
for
Science
and
Reason

www.skepticzone.tv

1
00:00:13,180 --> 00:00:09,480
welcome to the skeptic zone the podcast

2
00:00:16,810 --> 00:00:13,190
from Australia for science and reason

3
00:00:20,900 --> 00:00:16,820
urea hosts Richard Saunders and stefan

4
00:00:25,140 --> 00:00:23,370
Richard good to see you again hello

5
00:00:27,840 --> 00:00:25,150
Stefan we're back we're back in the zone

6
00:00:30,510 --> 00:00:27,850
this less we had episode what 4032 or

7
00:00:32,070 --> 00:00:30,520
something it is good gifts ah I wish it

8
00:00:34,530 --> 00:00:32,080
was notice in fact it's episode number

9
00:00:38,160 --> 00:00:34,540
53 for the 23rd of October which is

10
00:00:39,960 --> 00:00:38,170
today by the way Oh today is the is

11
00:00:41,910 --> 00:00:39,970
actually today it's actually today today

12
00:00:46,290 --> 00:00:41,920
is today that's that's a phenomenon it's

13
00:00:48,689 --> 00:00:46,300

amazing and it's own 53 says actually

14

00:00:50,360 --> 00:00:48,699

it's like the first one of the year but

15

00:00:53,189 --> 00:00:50,370

not really because we missed a couple

16

00:01:01,619 --> 00:00:53,199

actually no we didn't miss any so this

17

00:01:03,869 --> 00:01:01,629

is like happy new year well I mean we've

18

00:01:06,570 --> 00:01:03,879

gone over the year we had we have so

19

00:01:09,300 --> 00:01:06,580

this is a few episodes of the the

20

00:01:11,789 --> 00:01:09,310

second year okay that's 53 cuz i think

21

00:01:14,550 --> 00:01:11,799

there's 52 weeks the yield era oh I see

22

00:01:16,590 --> 00:01:14,560

so yes yes earl early on in the very

23

00:01:18,930 --> 00:01:16,600

first few month we skinned up off we

24

00:01:21,800 --> 00:01:18,940

skip the pepper i remember that it was a

25

00:01:24,779 --> 00:01:21,810

deep and dark depressing target nice

26

00:01:27,270 --> 00:01:24,789

well it's good to be back env3 I got a

27

00:01:29,160 --> 00:01:27,280

bit of an interesting episode beginning

28

00:01:31,499 --> 00:01:29,170

of the editor from the scientific

29

00:01:32,880 --> 00:01:31,509

america actually that's right uh he's

30

00:01:34,649 --> 00:01:32,890

just retired he was the former

31

00:01:37,560 --> 00:01:34,659

editor-in-chief of Scientific American

32

00:01:40,289 --> 00:01:37,570

magazine John Rennie and dr. H he caught

33

00:01:42,660 --> 00:01:40,299

up with him in New York how was he like

34

00:01:44,310 --> 00:01:42,670

in in deposition for a long time he was

35

00:01:46,830 --> 00:01:44,320

um actually I think they mentioned that

36

00:01:49,230 --> 00:01:46,840

in the interview right cuz that's a

37

00:01:50,730 --> 00:01:49,240

pretty pretty established magazine

38

00:01:52,950 --> 00:01:50,740

that's way before the Internet that's

39

00:01:54,660 --> 00:01:52,960

amazing yeah and she got him that's

40

00:01:56,669 --> 00:01:54,670

fantastic now that's followed by our

41

00:01:59,760 --> 00:01:56,679

reporter nurse Joanne benim ooh-hoo

42

00:02:02,130 --> 00:01:59,770

cozen gets a swine flu shot a real one

43

00:02:04,310 --> 00:02:02,140

or homeopathic one a real happy family

44

00:02:06,419 --> 00:02:04,320

right now like a real one a real one

45

00:02:08,070 --> 00:02:06,429

excellent is that we can hear her

46

00:02:10,230 --> 00:02:08,080

actually getting the chop back out do

47

00:02:12,510 --> 00:02:10,240

you remember about all five or six

48

00:02:15,630 --> 00:02:12,520

months ago I went and I had a shot

49

00:02:17,910 --> 00:02:15,640

myself pertussis okay I remember that

50

00:02:19,809 --> 00:02:17,920

and he said it hurt a little bit hardly

51
00:02:21,910 --> 00:02:19,819
at all hardly felt and honestly yeah

52
00:02:24,149 --> 00:02:21,920
up and you you're brave tough man so

53
00:02:26,589 --> 00:02:24,159
your net ID be a screaming like a girl

54
00:02:28,690 --> 00:02:26,599
figure out and jog it was an only

55
00:02:31,539 --> 00:02:28,700
empathic one I just have a drink of

56
00:02:33,250 --> 00:02:31,549
homeopathic remedy he'll be fine he's in

57
00:02:34,390 --> 00:02:33,260
a bit of Reiki bitter a key that

58
00:02:36,129 --> 00:02:34,400
everything be cooked laughing at the

59
00:02:37,449 --> 00:02:36,139
ready that's followed by the think tank

60
00:02:39,339 --> 00:02:37,459
of course they would all thing takes

61
00:02:41,379 --> 00:02:39,349
where where is the think tank this week

62
00:02:43,229 --> 00:02:41,389
in our favorite club down the street

63
00:02:45,819 --> 00:02:43,239

which is the Canterbury host and park

64

00:02:48,520 --> 00:02:45,829

RSL which is a bit of a legend of

65

00:02:50,409 --> 00:02:48,530

clubland in Sydney if you never come to

66

00:02:53,740 --> 00:02:50,419

Australia if you lipstick overseas or

67

00:02:56,949 --> 00:02:53,750

here in Sydney go to the CHP RSL because

68

00:02:59,740 --> 00:02:56,959

it is a cabaret mecca it is they've got

69

00:03:04,360 --> 00:02:59,750

a lot of acts that were really bigger

70

00:03:06,009 --> 00:03:04,370

than act I think the researchers are

71

00:03:07,929 --> 00:03:06,019

searches or the Seekers or that I

72

00:03:09,729 --> 00:03:07,939

actually supported the searches at

73

00:03:11,379 --> 00:03:09,739

Calvary Hill superga reserve couple

74

00:03:15,459 --> 00:03:11,389

years ago anything they were still

75

00:03:16,839 --> 00:03:15,469

walking without Zimmer frame amazing it

76

00:03:19,030 --> 00:03:16,849

was Jenny what talking about the

77

00:03:22,959 --> 00:03:19,040

Canterbury Coulson park area so it was

78

00:03:26,140 --> 00:03:22,969

there I met Don lane it was not it was

79

00:03:28,780 --> 00:03:26,150

you did that five years back I was there

80

00:03:32,439 --> 00:03:28,790

for some other reason I can't remember

81

00:03:35,140 --> 00:03:32,449

why and Don Lane was divided out of that

82

00:03:36,939 --> 00:03:35,150

no do it was a okay may have a Rainmaker

83

00:03:40,030 --> 00:03:36,949

now we mentioned Don lined of course

84

00:03:43,780 --> 00:03:40,040

because he died only yesterday yes at 75

85

00:03:46,479 --> 00:03:43,790

and he was the man who kicked james

86

00:03:48,189 --> 00:03:46,489

randi off his varieties in a fit of rage

87

00:03:53,229 --> 00:03:48,199

in fact I'll just play that clip right

88

00:03:55,449 --> 00:03:53,239

now what I am defending is you you come

89

00:03:57,009 --> 00:03:55,459

over here with this big reputation you

90

00:03:58,059 --> 00:03:57,019

give us a lot of lip service about all

91

00:03:59,979 --> 00:03:58,069

this stuff that you're going to prove

92

00:04:01,420 --> 00:03:59,989

you go against the lady like Doris

93

00:04:02,920 --> 00:04:01,430

Stokes who never harmed anybody in her

94

00:04:04,719 --> 00:04:02,930

whole life and you call her a Charlotte

95

00:04:06,429 --> 00:04:04,729

and a fake and that woman would have I

96

00:04:08,199 --> 00:04:06,439

anybody but I don't know whether she's

97

00:04:10,030 --> 00:04:08,209

right or wrong I what you would lie to

98

00:04:15,360 --> 00:04:10,040

nobody went off for commercial break and

99

00:04:22,240 --> 00:04:19,210

there you go Wow Stefan all I can over

100

00:04:23,920 --> 00:04:22,250

the Doris Stokes Nora he believed in her

101

00:04:25,600 --> 00:04:23,930

thoroughly well you couldn't think of

102

00:04:27,220 --> 00:04:25,610

the time it was I mean this was Don lane

103

00:04:29,320 --> 00:04:27,230

he had his show in the late 70s to the

104

00:04:32,020 --> 00:04:29,330

early 80s hmm and that was really

105

00:04:34,480 --> 00:04:32,030

especially the late 70s was the big time

106

00:04:36,970 --> 00:04:34,490

for all the spoon bending in our psyche

107

00:04:38,350 --> 00:04:36,980

that sort of funny people here and so

108

00:04:40,690 --> 00:04:38,360

Doris Stokes and these people would come

109

00:04:42,940 --> 00:04:40,700

on the Don Lane show do their act really

110

00:04:44,620 --> 00:04:42,950

well and convince a lot of words a lot

111

00:04:46,450 --> 00:04:44,630

of people Don Lane was obviously cannot

112

00:04:48,520 --> 00:04:46,460

even see it comes James Randi saying no

113

00:04:49,900 --> 00:04:48,530

it's not really happening well darling

114

00:04:52,120 --> 00:04:49,910

spit the dummy is a saying because

115

00:04:54,670 --> 00:04:52,130

there's good ratings yeah good ratings

116

00:04:57,520 --> 00:04:54,680

and it'd be ironic if he was actually up

117

00:04:59,680 --> 00:04:57,530

there now looking down on us yo you know

118

00:05:02,080 --> 00:04:59,690

trying to break through that sort of

119

00:05:04,600 --> 00:05:02,090

veil of communication that the spirit

120

00:05:06,850 --> 00:05:04,610

people can't get through to our to lowly

121

00:05:10,360 --> 00:05:06,860

humans like I would miss Bea I roanoke

122

00:05:14,350 --> 00:05:10,370

your own is so ironic and talking about

123

00:05:16,510 --> 00:05:14,360

irony yes a median right anyway ah is in

124

00:05:20,080 --> 00:05:16,520

really good news dr. rachy and I have

125

00:05:23,230 --> 00:05:20,090

just scored a regular gig on radio 2 GB

126

00:05:25,900 --> 00:05:23,240

here in severe haven't yeah yeah what as

127

00:05:28,060 --> 00:05:25,910

a skeptic yet yeah I starting this

128

00:05:29,830 --> 00:05:28,070

Saturday night after 8pm it'll be

129

00:05:32,410 --> 00:05:29,840

between eight pm and nine play on chatty

130

00:05:33,970 --> 00:05:32,420

bit yeah we're going into downtown to

131

00:05:35,530 --> 00:05:33,980

the studio here in Sydney and we're

132

00:05:36,730 --> 00:05:35,540

going to be on Sydney radio I hope

133

00:05:38,590 --> 00:05:36,740

they're not going to call it the skeptic

134

00:05:39,670 --> 00:05:38,600

zone I have not I don't know what I

135

00:05:41,770 --> 00:05:39,680

don't know what they're going to call it

136

00:05:45,120 --> 00:05:41,780

but if you listen as you want to tune in

137

00:05:49,330 --> 00:05:45,130

you can hear us all around the world

138

00:05:52,090 --> 00:05:49,340

www.2g be calm right that's fantastic

139

00:05:54,580 --> 00:05:52,100

you have to check your time tables and

140

00:05:59,260 --> 00:05:54,590

scales and dates and yeah at least

141

00:06:01,600 --> 00:05:59,270

daylight saving Sydney time on saturday

142

00:06:03,850 --> 00:06:01,610

night between eight and nine daylight

143

00:06:09,520 --> 00:06:03,860

saving so add an hour to your normal and

144

00:06:11,430 --> 00:06:09,530

dumb and you getting paid not yet get

145

00:06:13,780 --> 00:06:11,440

come to deal no the rewards will be

146

00:06:15,310 --> 00:06:13,790

normally that just do the warm and fuzzy

147

00:06:16,960 --> 00:06:15,320

feeling the warm and fuzzy feeling and

148

00:06:20,050 --> 00:06:16,970

who knows they may even hear us in

149

00:06:22,270 --> 00:06:20,060

Mexico I say that hot because I've had

150

00:06:23,470 --> 00:06:22,280

an email from a bokken Mexico who would

151

00:06:27,700 --> 00:06:23,480

like me to quickly

152

00:06:32,110 --> 00:06:27,710

he's a weblog yayi which means skeptical

153

00:06:39,820 --> 00:06:32,120

dad ranches HTTP colon slash slash pa pa

154

00:06:42,490 --> 00:06:39,830

e SC EPT I see Oh Papa is skeptical dot

155

00:06:43,780 --> 00:06:42,500

wordpress com hey you got and when I saw

156

00:06:45,520 --> 00:06:43,790

that email actually he sounds like a

157

00:06:47,200 --> 00:06:45,530

pretty cool dude he was he is the great

158

00:06:48,700 --> 00:06:47,210

email yeah yeah sound to you too of

159

00:06:50,050 --> 00:06:48,710

course that's right and he wants to he

160

00:06:52,060 --> 00:06:50,060

wants to get a bit of a skeptical thing

161

00:06:55,180 --> 00:06:52,070

happening in Mexico which is a home of a

162

00:06:56,830 --> 00:06:55,190

lot of wood right a bit so I think we

163

00:06:58,510 --> 00:06:56,840

should encourage him if anyone else is

164

00:07:00,310 --> 00:06:58,520

anywhere near Mexico or thinking of

165

00:07:03,130 --> 00:07:00,320

heading down there to maybe you know

166

00:07:05,080 --> 00:07:03,140

break bail or something um don't go and

167

00:07:06,670 --> 00:07:05,090

catch up with him and then get something

168

00:07:08,890 --> 00:07:06,680

set up check out check out his website

169

00:07:10,660 --> 00:07:08,900

check out its website well there's so

170

00:07:12,520 --> 00:07:10,670

much on today's show Stefan I think

171

00:07:14,500 --> 00:07:12,530

we've we've up we've outstayed our

172

00:07:16,870 --> 00:07:14,510

introductory we have we'd better move on

173

00:07:18,220 --> 00:07:16,880

let's go enjoy the show thanks for

174

00:07:31,960 --> 00:07:18,230

listening and Richard will see you at

175

00:07:41,390 --> 00:07:35,330

now it's time for dr. Rachel reports

176

00:07:43,999 --> 00:07:41,400

with dr. Rachel Dunlop hello listeners

177

00:07:45,469 --> 00:07:44,009

and welcome to dr. Reggie reports on

178

00:07:47,899 --> 00:07:45,479

this week's show I continued my

179

00:07:49,700 --> 00:07:47,909

interviews from New York City and this

180

00:07:52,429 --> 00:07:49,710

time I talked to John Rennie the

181

00:07:56,209 --> 00:07:52,439

editor-in-chief of Scientific American

182

00:07:58,010 --> 00:07:56,219

magazine recently retired I met John at

183

00:08:00,499 --> 00:07:58,020

the Nexus conference in New York City

184

00:08:03,020 --> 00:08:00,509

where he was moderating a panel i was on

185

00:08:05,510 --> 00:08:03,030

discussing science and the media this

186

00:08:07,550 --> 00:08:05,520

panel feature howard schneider media

187

00:08:10,490 --> 00:08:07,560

commentator and journalist john

188

00:08:12,080 --> 00:08:10,500

schneider pediatrician and myself John

189

00:08:14,149 --> 00:08:12,090

Rennie was very generous to give me his

190

00:08:16,520 --> 00:08:14,159

time in days after the conference where

191

00:08:18,379 --> 00:08:16,530

we sat down to talk about his career the

192

00:08:19,939 --> 00:08:18,389

media's role in science reporting and

193

00:08:22,550 --> 00:08:19,949

lots of other interesting things

194

00:08:24,439 --> 00:08:22,560

including creationists and with John

195

00:08:26,330 --> 00:08:24,449

rainy here in New York City hi John

196

00:08:28,519 --> 00:08:26,340

welcome to the skeptic zone well it's a

197

00:08:31,159 --> 00:08:28,529

pleasure to be with you and you have

198

00:08:33,139 --> 00:08:31,169

just recently retired from being the

199

00:08:36,610 --> 00:08:33,149

editor-in-chief of Scientific American

200

00:08:40,279 --> 00:08:36,620

magazine that's right which you did from

201
00:08:43,610 --> 00:08:40,289
1994 to 2009 yes yes that's right it was

202
00:08:46,960 --> 00:08:43,620
about 14 and a half year run as the

203
00:08:49,790 --> 00:08:46,970
editor-in-chief and pretty much dead on

204
00:08:52,130 --> 00:08:49,800
20 years of being at Scientific American

205
00:08:55,130 --> 00:08:52,140
all altogether which is which is a sort

206
00:08:56,960 --> 00:08:55,140
of unusually long tenure in both

207
00:08:59,060 --> 00:08:56,970
capacities in the magazine world based

208
00:09:01,009 --> 00:08:59,070
so can we talk a little bit about your

209
00:09:03,110 --> 00:09:01,019
background first of all you did an

210
00:09:04,460 --> 00:09:03,120
undergraduate at Yale University mm-hmm

211
00:09:07,040 --> 00:09:04,470
that's right and then you went on to

212
00:09:09,079 --> 00:09:07,050
work as a researcher at some Harvard

213
00:09:11,769 --> 00:09:09,089

Medical School researcher would probably

214

00:09:14,420 --> 00:09:11,779

be overstating it i mean i had i had

215

00:09:16,069 --> 00:09:14,430

graduating with my bachelor's degree in

216

00:09:18,050 --> 00:09:16,079

biology i was waiting for a while

217

00:09:21,290 --> 00:09:18,060

whether or not i wanted to go on into

218

00:09:23,300 --> 00:09:21,300

her search and i decided that rather

219

00:09:25,069 --> 00:09:23,310

than immediately jump into graduate

220

00:09:28,069 --> 00:09:25,079

school I would just go off and work as a

221

00:09:30,920 --> 00:09:28,079

technician which i did in a cell biology

222

00:09:33,590 --> 00:09:30,930

laboratory at Harvard med school so I I

223

00:09:35,960 --> 00:09:33,600

worked in a laboratory but I was you

224

00:09:37,819 --> 00:09:35,970

know a glorified technician at best

225

00:09:39,970 --> 00:09:37,829

never never truly a research or

226

00:09:43,560 --> 00:09:39,980

scientist how long did you do that

227

00:09:47,140 --> 00:09:43,570

I was really there probably for

228

00:09:49,870 --> 00:09:47,150

something like they think three years

229

00:09:52,350 --> 00:09:49,880

old together I mean it started off as I

230

00:09:54,550 --> 00:09:52,360

say I went there with the intention of

231

00:09:56,170 --> 00:09:54,560

sorting out whether or not I wanted to

232

00:09:59,020 --> 00:09:56,180

go on in graduate school I would say

233

00:10:01,270 --> 00:09:59,030

that appropriately within the space of a

234

00:10:04,900 --> 00:10:01,280

year or so of that I really didn't know

235

00:10:06,850 --> 00:10:04,910

that that I that I as much as I like the

236

00:10:08,650 --> 00:10:06,860

science I had a wonderful experience in

237

00:10:12,160 --> 00:10:08,660

that that I just liked explaining the

238

00:10:14,080 --> 00:10:12,170

work that much more so the the remainder

239

00:10:16,360 --> 00:10:14,090

of that time it was partly because I did

240

00:10:18,280 --> 00:10:16,370

still like working in the laboratory but

241

00:10:22,300 --> 00:10:18,290

also that was giving giving me time for

242

00:10:24,520 --> 00:10:22,310

starting to sort of rev up to make a

243

00:10:26,800 --> 00:10:24,530

transition over to becoming some kind of

244

00:10:28,540 --> 00:10:26,810

a science right or at that point which

245

00:10:30,550 --> 00:10:28,550

always seemed like such an improbable

246

00:10:33,220 --> 00:10:30,560

thing that I could possibly be able to

247

00:10:34,960 --> 00:10:33,230

do who did you work with that Harvard in

248

00:10:36,610 --> 00:10:34,970

that department because yes as a

249

00:10:38,290 --> 00:10:36,620

coincidence i'm going to be doing a talk

250

00:10:40,270 --> 00:10:38,300

in the cell biology department of

251
00:10:42,610 --> 00:10:40,280
harvard medical school now on thursday

252
00:10:44,410 --> 00:10:42,620
oh that's right it was actually i was

253
00:10:46,390 --> 00:10:44,420
actually it was in using the department

254
00:10:48,580 --> 00:10:46,400
of anatomy throughout of course that

255
00:10:51,060 --> 00:10:48,590
incorporates a lot of cell biology these

256
00:10:54,820 --> 00:10:51,070
days and i worked in the laboratory of

257
00:10:58,060 --> 00:10:54,830
daniel good enough who is well known as

258
00:11:00,490 --> 00:10:58,070
a gap Junction researcher okay so we

259
00:11:03,250 --> 00:11:00,500
were looking at a lot of intercellular

260
00:11:06,250 --> 00:11:03,260
junctions and intercellular

261
00:11:08,140 --> 00:11:06,260
communication related to that it was it

262
00:11:10,870 --> 00:11:08,150
was either they say a wonderful time dan

263
00:11:12,460 --> 00:11:10,880

good enough is a is a terrific scientist

264

00:11:14,320 --> 00:11:12,470

but also just a terrific man he was a

265

00:11:17,290 --> 00:11:14,330

great sort of mentor to everybody

266

00:11:19,540 --> 00:11:17,300

passing through the lab and I mean it

267

00:11:22,000 --> 00:11:19,550

was it was a rewarding experience in a

268

00:11:25,690 --> 00:11:22,010

lot of ways particularly i would say in

269

00:11:29,890 --> 00:11:25,700

going on is to work as a science writer

270

00:11:32,830 --> 00:11:29,900

because it helped me understand that so

271

00:11:36,730 --> 00:11:32,840

many things that people will write in a

272

00:11:38,800 --> 00:11:36,740

quick passing way that how much time and

273

00:11:41,560 --> 00:11:38,810

effort goes into that you know i think

274

00:11:43,420 --> 00:11:41,570

about how many science stories you see

275

00:11:45,430 --> 00:11:43,430

where they someone will routinely say

276

00:11:47,140 --> 00:11:45,440

well we developed an antibody against

277

00:11:49,090 --> 00:11:47,150

this proteins like well you know in the

278

00:11:51,310 --> 00:11:49,100

course of the three years I was there we

279

00:11:52,269 --> 00:11:51,320

were constantly trying to develop a

280

00:11:55,269 --> 00:11:52,279

monoclonal

281

00:11:56,889 --> 00:11:55,279

body against gap Junction protein I

282

00:11:59,920 --> 00:11:56,899

think just about the time I was leaving

283

00:12:02,439 --> 00:11:59,930

we finally finally were getting it done

284

00:12:04,300 --> 00:12:02,449

so sometimes things that are throwaway

285

00:12:07,119 --> 00:12:04,310

lines in the course of a larger

286

00:12:11,170 --> 00:12:07,129

scientific discussion can involve months

287

00:12:13,689 --> 00:12:11,180

and years of dedicated effort so it

288

00:12:16,480 --> 00:12:13,699

doesn't always show that yeah so during

289

00:12:18,160 --> 00:12:16,490

that time were you writing or we what

290

00:12:21,790 --> 00:12:18,170

was it that attracted you to scientific

291

00:12:24,759 --> 00:12:21,800

writing well I'd always it always a had

292

00:12:27,910 --> 00:12:24,769

real interest in in writing and in

293

00:12:31,090 --> 00:12:27,920

science and I think when I was 11 or 12

294

00:12:34,840 --> 00:12:31,100

years old I had picked up by chance this

295

00:12:38,019 --> 00:12:34,850

anthology of science essays by Isaac

296

00:12:40,150 --> 00:12:38,029

Asimov and really just fell in love with

297

00:12:42,519 --> 00:12:40,160

that and that was I know this sounds a

298

00:12:43,749 --> 00:12:42,529

bit dim but it was really the very first

299

00:12:45,939 --> 00:12:43,759

moment it had occurred to me that

300

00:12:48,309 --> 00:12:45,949

anybody could even have a job that

301
00:12:49,929 --> 00:12:48,319
involved writing about science so I

302
00:12:51,429 --> 00:12:49,939
think in the back of my mind or

303
00:12:53,530 --> 00:12:51,439
sometimes more in the forefront of it

304
00:12:56,369 --> 00:12:53,540
but I it always had a certain desire to

305
00:13:00,850 --> 00:12:56,379
want to write about science but I think

306
00:13:03,939 --> 00:13:00,860
something that that had certainly slowed

307
00:13:05,740 --> 00:13:03,949
me from undertaking that head on was a

308
00:13:08,230 --> 00:13:05,750
certain question of why one world would

309
00:13:10,509 --> 00:13:08,240
anybody care what I had to say about

310
00:13:12,639 --> 00:13:10,519
about science literally it just

311
00:13:15,220 --> 00:13:12,649
basically always had a lot of interests

312
00:13:20,199 --> 00:13:15,230
in that and writing in general really

313
00:13:22,210 --> 00:13:20,209

but science writing was one real strong

314

00:13:24,519 --> 00:13:22,220

area of interest and quite frankly in

315

00:13:27,129 --> 00:13:24,529

getting started as a professional writer

316

00:13:28,240 --> 00:13:27,139

it was something that I knew about and

317

00:13:30,069 --> 00:13:28,250

it's something that I could you know

318

00:13:32,679 --> 00:13:30,079

that I had a chance of being able to

319

00:13:35,350 --> 00:13:32,689

since be able to market myself as a

320

00:13:37,179 --> 00:13:35,360

writer of science more reasonably than

321

00:13:38,499 --> 00:13:37,189

anything else how did you get started

322

00:13:40,179 --> 00:13:38,509

then John because you didn't go straight

323

00:13:42,669 --> 00:13:40,189

into being the editor-in-chief of

324

00:13:44,110 --> 00:13:42,679

Scientific American no no though though

325

00:13:46,329 --> 00:13:44,120

I I think there are some people who

326

00:13:48,699 --> 00:13:46,339

still feel like it's sort of an

327

00:13:50,679 --> 00:13:48,709

astonishingly short amount of time it

328

00:13:52,090 --> 00:13:50,689

was about 10 years or so you know all

329

00:13:53,829 --> 00:13:52,100

things considered about Sarah from the

330

00:13:56,019 --> 00:13:53,839

time when I was really debuting as some

331

00:13:59,559 --> 00:13:56,029

kind of science writer to landing in

332

00:14:02,290 --> 00:13:59,569

that position and and I believe me I pin

333

00:14:03,950 --> 00:14:02,300

it to luck and the kindness of strangers

334

00:14:06,140 --> 00:14:03,960

as much as anything

335

00:14:09,140 --> 00:14:06,150

I you know I really had just started off

336

00:14:11,720 --> 00:14:09,150

first looking for any kinds of paid

337

00:14:13,640 --> 00:14:11,730

writing jobs that I could find and the

338

00:14:17,990 --> 00:14:13,650

foot in the door for me this way was

339

00:14:20,390 --> 00:14:18,000

that there was a job that I had seen

340

00:14:22,850 --> 00:14:20,400

advertised they needed to hire someone

341

00:14:26,060 --> 00:14:22,860

who could write abstracts of magazine

342

00:14:28,580 --> 00:14:26,070

articles some of which involved a lot of

343

00:14:31,010 --> 00:14:28,590

science content the irony given where

344

00:14:33,350 --> 00:14:31,020

things were going or I supposed to

345

00:14:35,840 --> 00:14:33,360

poetic justice or whatever of this is

346

00:14:38,360 --> 00:14:35,850

that one of the things that that I was

347

00:14:40,730 --> 00:14:38,370

definitely hired to do was to read

348

00:14:43,730 --> 00:14:40,740

Scientific American and write these kind

349

00:14:47,900 --> 00:14:43,740

of little 150 word abstracts for this a

350

00:14:50,810 --> 00:14:47,910

big citation work that job really gave

351

00:14:53,450 --> 00:14:50,820

me a much more intensive exposure to

352

00:14:55,850 --> 00:14:53,460

Scientific American as a magazine I mean

353

00:14:57,530 --> 00:14:55,860

certainly known it well before this but

354

00:14:59,090 --> 00:14:57,540

now I really got to know it inside and

355

00:15:01,160 --> 00:14:59,100

out and I got to know more of its

356

00:15:03,740 --> 00:15:01,170

stylings and how they did things so

357

00:15:05,690 --> 00:15:03,750

years later when i came to apply for a

358

00:15:08,360 --> 00:15:05,700

job at Scientific American it really

359

00:15:12,320 --> 00:15:08,370

served me a very good stays sort of but

360

00:15:14,240 --> 00:15:12,330

again ah did just the the random good

361

00:15:15,620 --> 00:15:14,250

fortune of how that worked out the sort

362

00:15:17,570 --> 00:15:15,630

of stuff that you covered during your

363

00:15:20,570 --> 00:15:17,580

time at Scientific American some of it

364

00:15:22,850 --> 00:15:20,580

was very controversial or it was

365

00:15:23,900 --> 00:15:22,860

perceived as controversial by the people

366

00:15:26,690 --> 00:15:23,910

that maybe didn't like what you were

367

00:15:28,460 --> 00:15:26,700

saying but on top of that they were one

368

00:15:30,560 --> 00:15:28,470

of the articles you wrote which was 15

369

00:15:33,020 --> 00:15:30,570

ounces to creationist nonsense right I

370

00:15:34,760 --> 00:15:33,030

think is the most downloaded unread

371

00:15:36,620 --> 00:15:34,770

article in the history of the Scientific

372

00:15:38,270 --> 00:15:36,630

American certainly certainly one of the

373

00:15:40,340 --> 00:15:38,280

most there been times when it I think

374

00:15:41,870 --> 00:15:40,350

may have been the most I don't know if

375

00:15:44,450 --> 00:15:41,880

it currently is but it's certainly one

376

00:15:47,060 --> 00:15:44,460

of the most beloved yeah so you wrote

377

00:15:48,770 --> 00:15:47,070

that in 2002 and some of the things that

378

00:15:50,990 --> 00:15:48,780

you addressed I just wanted to ask you

379

00:15:53,060 --> 00:15:51,000

if you think much has changed in the

380

00:15:54,710 --> 00:15:53,070

creationist realm since then and in

381

00:15:56,540 --> 00:15:54,720

particular one of the things you talked

382

00:15:58,730 --> 00:15:56,550

about in that article was transitional

383

00:16:01,370 --> 00:15:58,740

fossils and how you know the

384

00:16:03,200 --> 00:16:01,380

creationists basically want a half or we

385

00:16:05,810 --> 00:16:03,210

went out a refer to it as a crocodile I

386

00:16:07,610 --> 00:16:05,820

guess yeah a Crocker that's hathcock

387

00:16:09,650 --> 00:16:07,620

around half a duck right but what do you

388

00:16:11,900 --> 00:16:09,660

think that that we've satisfied them

389

00:16:14,020 --> 00:16:11,910

anymore now that it's you know you know

390

00:16:15,660 --> 00:16:14,030

any almost 10 years later and

391

00:16:16,800 --> 00:16:15,670

fundamentally know

392

00:16:19,050 --> 00:16:16,810

I mean I think that you know what's

393

00:16:23,600 --> 00:16:19,060

what's really really sad is the extent

394

00:16:26,850 --> 00:16:23,610

to which the the kinds of creationist

395

00:16:29,100 --> 00:16:26,860

arguments or would-be rebuttals to

396

00:16:32,040 --> 00:16:29,110

evolution that they rise they are sort

397

00:16:33,870 --> 00:16:32,050

of evergreen but of course since your

398

00:16:36,870 --> 00:16:33,880

dear the people who are raising these

399

00:16:39,930 --> 00:16:36,880

would be arguments are almost by

400

00:16:43,260 --> 00:16:39,940

definition not engaging with anything

401

00:16:45,300 --> 00:16:43,270

like the scientific literature that the

402

00:16:49,860 --> 00:16:45,310

fact that the science keeps progressing

403

00:16:53,580 --> 00:16:49,870

and the fact that there's a deep broad

404

00:16:55,680 --> 00:16:53,590

streak of misunderstanding signs that

405

00:16:57,150 --> 00:16:55,690

runs through so many of these it's just

406

00:16:59,810 --> 00:16:57,160

not at all surprising that nothing

407

00:17:03,380 --> 00:16:59,820

really changes so arguments about

408

00:17:06,480 --> 00:17:03,390

transitional fossils and lack thereof

409

00:17:09,810 --> 00:17:06,490

that never goes away all the kinds of

410

00:17:12,150 --> 00:17:09,820

arguments about the how does this second

411

00:17:14,340 --> 00:17:12,160

law of thermodynamics says that that's

412

00:17:16,940 --> 00:17:14,350

impossible I mean you know I think what

413

00:17:20,850 --> 00:17:16,950

we see is that those those underlying

414

00:17:23,490 --> 00:17:20,860

kinds of arguments seem to go on forever

415

00:17:25,760 --> 00:17:23,500

and ever and I have and I dare say that

416

00:17:28,410 --> 00:17:25,770

we would have seen some variation on

417

00:17:30,870 --> 00:17:28,420

virtually all of them if we went back

418

00:17:32,880 --> 00:17:30,880

even to say the 1960s which i think is

419

00:17:35,960 --> 00:17:32,890

really when sort of creationism started

420

00:17:39,540 --> 00:17:35,970

to get the sort of modern era of

421

00:17:40,860 --> 00:17:39,550

creationism trying to refute evolution

422

00:17:43,200 --> 00:17:40,870

when it really at least in the United

423

00:17:44,550 --> 00:17:43,210

States started to take off again yeah

424

00:17:46,500 --> 00:17:44,560

well of course I just shipped the bar

425

00:17:47,850 --> 00:17:46,510

don't know if they move the goalposts be

426

00:17:49,830 --> 00:17:47,860

one of the things you talked about in

427

00:17:52,020 --> 00:17:49,840

your article was that they don't believe

428

00:17:54,000 --> 00:17:52,030

in evolution because if we come from

429

00:17:55,710 --> 00:17:54,010

monkeys and Wyatt this half monkeys and

430

00:17:58,530 --> 00:17:55,720

how humans and right you know the

431

00:18:01,860 --> 00:17:58,540

funniest thing is when when when it that

432

00:18:04,050 --> 00:18:01,870

article and I listed the notorious if

433

00:18:06,840 --> 00:18:04,060

humans came from monkeys why are there

434

00:18:09,090 --> 00:18:06,850

still monkeys yeah there were people

435

00:18:11,190 --> 00:18:09,100

opponents of evolution who wrote in and

436

00:18:13,410 --> 00:18:11,200

saying now you're just trying to be

437

00:18:15,660 --> 00:18:13,420

ridiculous now no one no one would ever

438

00:18:18,140 --> 00:18:15,670

make that argument and I would I would

439

00:18:20,750 --> 00:18:18,150

send them copies of these

440

00:18:23,690 --> 00:18:20,760

I mean people making exactly that

441

00:18:24,620 --> 00:18:23,700

argument to us there is you know I'm

442

00:18:27,380 --> 00:18:24,630

sorry to put this way but there's

443

00:18:31,460 --> 00:18:27,390

literally no argument too stupid for the

444

00:18:34,640 --> 00:18:31,470

creation because to make in the defense

445

00:18:37,820 --> 00:18:34,650

of their cause you know including that

446

00:18:41,090 --> 00:18:37,830

one which is shows such a profound

447

00:18:43,790 --> 00:18:41,100

ignorance of what evolution means is

448

00:18:45,530 --> 00:18:43,800

that you just is just as no help really

449

00:18:48,740 --> 00:18:45,540

even the you know the the whole

450

00:18:53,150 --> 00:18:48,750

transitional fossils argument is another

451
00:18:56,240 --> 00:18:53,160
one that you know it almost sounds more

452
00:18:58,190 --> 00:18:56,250
intelligent than it really is I mean the

453
00:19:01,280 --> 00:18:58,200
the argument that they're supposed to be

454
00:19:03,140 --> 00:19:01,290
this Crocodoc I mean where do you in a

455
00:19:04,790 --> 00:19:03,150
way even begin is like their first of

456
00:19:06,290 --> 00:19:04,800
all there's no particular reason that

457
00:19:08,860 --> 00:19:06,300
you're not necessarily looking at a

458
00:19:12,410 --> 00:19:08,870
transition from crocodile to duck yeah

459
00:19:14,240 --> 00:19:12,420
next there's you know there's they're

460
00:19:16,160 --> 00:19:14,250
the ones defining that they're supposed

461
00:19:18,440 --> 00:19:16,170
to be a transitional creature that

462
00:19:19,850 --> 00:19:18,450
combines these features in some way but

463
00:19:21,770 --> 00:19:19,860

also you know sort of the deeper

464

00:19:24,050 --> 00:19:21,780

ignorance that the reality is you're not

465

00:19:25,880 --> 00:19:24,060

going to find anything that's like a

466

00:19:27,650 --> 00:19:25,890

Crocodoc in a way you're going to do

467

00:19:30,800 --> 00:19:27,660

they will always say it's like well

468

00:19:32,270 --> 00:19:30,810

that's that's a bird or that some sort

469

00:19:33,620 --> 00:19:32,280

of lizard it was like we're looking for

470

00:19:35,330 --> 00:19:33,630

something that's different from that

471

00:19:36,770 --> 00:19:35,340

like okay well then where do you start

472

00:19:38,240 --> 00:19:36,780

with that you just got no way to go

473

00:19:40,160 --> 00:19:38,250

right I mean you know it goes you

474

00:19:43,490 --> 00:19:40,170

granted sometimes it goes to a certain

475

00:19:46,540 --> 00:19:43,500

kind of the the nuances and tricky

476
00:19:49,070 --> 00:19:46,550
things about exactly how you are

477
00:19:52,100 --> 00:19:49,080
categorizing some of these creatures but

478
00:19:54,710 --> 00:19:52,110
but that's that's their problem I mean

479
00:19:57,020 --> 00:19:54,720
it's not it doesn't point to any sort of

480
00:19:58,600 --> 00:19:57,030
deeper problem with the argument of that

481
00:20:02,420 --> 00:19:58,610
you're looking at a depth of

482
00:20:04,310 --> 00:20:02,430
phylogenetic line that way yeah well you

483
00:20:06,650 --> 00:20:04,320
mentioned to me earlier that you also

484
00:20:08,600 --> 00:20:06,660
received a fair bit of a critical mail

485
00:20:11,690 --> 00:20:08,610
from the likes of the nanotechnology

486
00:20:12,980 --> 00:20:11,700
people else so what sort of responsive

487
00:20:15,110 --> 00:20:12,990
you are safe from people like this when

488
00:20:16,070 --> 00:20:15,120

you write things yeah it's the same sort

489

00:20:18,800 --> 00:20:16,080
of thing I mean with the with the

490

00:20:24,290 --> 00:20:18,810
nanotechnology people there in a sense

491

00:20:26,360 --> 00:20:24,300
the a lot of that really stems from an

492

00:20:28,649 --> 00:20:26,370
article that we published i think back

493

00:20:30,899 --> 00:20:28,659
in 1996 one of the

494

00:20:32,849 --> 00:20:30,909
the editors on the staff Gary sticks is

495

00:20:35,159 --> 00:20:32,859
the actual author of this but I got sort

496

00:20:36,570 --> 00:20:35,169
of pulled into it by virtue of it having

497

00:20:38,940 --> 00:20:36,580
appeared on my watch and my having been

498

00:20:41,789 --> 00:20:38,950
involved in some of the statements of

499

00:20:44,159 --> 00:20:41,799
standing up for this article Gary sticks

500

00:20:46,830 --> 00:20:44,169
made a very interesting point about the

501
00:20:49,349 --> 00:20:46,840
state of nanotechnology especially back

502
00:20:52,919 --> 00:20:49,359
at that time which was that you know in

503
00:20:55,259 --> 00:20:52,929
those days you had a trim they say Eric

504
00:20:57,239 --> 00:20:55,269
Drexler and some of the other people who

505
00:21:00,239 --> 00:20:57,249
are sort of the the major obvious

506
00:21:02,969 --> 00:21:00,249
spokespeople for the exciting new field

507
00:21:06,089 --> 00:21:02,979
of nanotechnology they would often talk

508
00:21:07,529 --> 00:21:06,099
about the incredible things that would

509
00:21:09,269 --> 00:21:07,539
be to come in often in terms of these

510
00:21:12,539 --> 00:21:09,279
kind of Nano assemblers these sorts of

511
00:21:14,369 --> 00:21:12,549
little microscopic robots that we'd be

512
00:21:16,259 --> 00:21:14,379
able to I mean literally they would talk

513
00:21:18,269 --> 00:21:16,269

about them say disassembling a junk heap

514

00:21:20,789 --> 00:21:18,279

and assembling a new working automobile

515

00:21:23,039 --> 00:21:20,799

for you you know they they would they

516

00:21:25,769 --> 00:21:23,049

would paint a picture of nanotechnology

517

00:21:29,909 --> 00:21:25,779

that essentially made it magical that it

518

00:21:31,499 --> 00:21:29,919

could do anything someday and it would

519

00:21:33,479 --> 00:21:31,509

get Gary in in effect you should have

520

00:21:35,999 --> 00:21:33,489

called them on this he said look you

521

00:21:38,159 --> 00:21:36,009

know maybe someday it might be

522

00:21:40,200 --> 00:21:38,169

conceivable to do any of this but you're

523

00:21:42,359 --> 00:21:40,210

talking about a form of the technology

524

00:21:44,489 --> 00:21:42,369

that is so incredibly remote from

525

00:21:46,769 --> 00:21:44,499

anything we have right now that it's

526

00:21:50,879 --> 00:21:46,779

it's really just kind of science fiction

527

00:21:52,859 --> 00:21:50,889

not a simple meaningful extrapolation of

528

00:21:55,289 --> 00:21:52,869

technology anymore you're you're going

529

00:21:57,330 --> 00:21:55,299

too far you at this point you've then

530

00:21:59,039 --> 00:21:57,340

you you you can't get some of these

531

00:22:00,960 --> 00:21:59,049

kinds of things you can't even get at

532

00:22:03,810 --> 00:22:00,970

that point the equivalent of little tiny

533

00:22:06,539 --> 00:22:03,820

you know a molecule sized gears

534

00:22:08,969 --> 00:22:06,549

interacting with one another and and

535

00:22:12,899 --> 00:22:08,979

this just outraged a lot of people in

536

00:22:15,239 --> 00:22:12,909

the the nanotechnology area particularly

537

00:22:18,989 --> 00:22:15,249

because Gary often also made the point

538

00:22:20,669 --> 00:22:18,999

that when he went to the sum of these

539

00:22:23,310 --> 00:22:20,679

nano technology conferences where

540

00:22:25,109 --> 00:22:23,320

scientists in the area would were

541

00:22:26,669 --> 00:22:25,119

appearing and he would talk to them a

542

00:22:29,820 --> 00:22:26,679

little more behind the scenes a lot of

543

00:22:31,139 --> 00:22:29,830

them would confess that really in

544

00:22:33,659 --> 00:22:31,149

talking to people like say Richard

545

00:22:37,510 --> 00:22:33,669

Smalley who was one of the inventor to

546

00:22:42,040 --> 00:22:37,520

discover of a Bucky tubes

547

00:22:44,140 --> 00:22:42,050

making the point that that really they

548

00:22:45,220 --> 00:22:44,150

they liked to go to the nano technology

549

00:22:46,810 --> 00:22:45,230

conferences because they were sort of

550

00:22:49,180 --> 00:22:46,820

fun and they were sort of interesting

551

00:22:50,920 --> 00:22:49,190

and it helped attract funding but it

552

00:22:53,110 --> 00:22:50,930

says you know they these guys are not

553

00:22:55,690 --> 00:22:53,120

actually contributing to the advance of

554

00:22:58,390 --> 00:22:55,700

the Science in any meaningful way that

555

00:23:00,010 --> 00:22:58,400

the reality of nanotechnology was much

556

00:23:03,720 --> 00:23:00,020

more like the kind of thing that people

557

00:23:05,920 --> 00:23:03,730

would look at is sort of chemistry

558

00:23:09,030 --> 00:23:05,930

certain kinds of other kinds of Applied

559

00:23:11,980 --> 00:23:09,040

Physics you know it was it was not very

560

00:23:14,230 --> 00:23:11,990

he's not very glamorous and even today

561

00:23:16,690 --> 00:23:14,240

when you know you can go to some places

562

00:23:19,240 --> 00:23:16,700

and people will happily exalt about the

563

00:23:22,330 --> 00:23:19,250

you know p however many thousands of

564

00:23:23,620 --> 00:23:22,340

products that have nanotechnology in

565

00:23:25,180 --> 00:23:23,630

them what they really mean is that in

566

00:23:26,830 --> 00:23:25,190

some cases they have nanoparticles

567

00:23:29,350 --> 00:23:26,840

you're talking about like sunscreens and

568

00:23:32,410 --> 00:23:29,360

things you're still a few light-years

569

00:23:33,970 --> 00:23:32,420

away from those little Nano assemblers

570

00:23:36,040 --> 00:23:33,980

that are going to do this and the

571

00:23:38,500 --> 00:23:36,050

reality is you know and Baron lunch

572

00:23:41,140 --> 00:23:38,510

Scientific American has published many

573

00:23:42,850 --> 00:23:41,150

many articles very enthusiastic about

574

00:23:45,580 --> 00:23:42,860

nanotechnology over the years but our

575

00:23:47,950 --> 00:23:45,590

point is you know you can't necessarily

576

00:23:50,380 --> 00:23:47,960

pin down the future that it's going to

577

00:23:52,870 --> 00:23:50,390

be this the future of nanotechnology

578

00:23:57,160 --> 00:23:52,880

might for example involve something much

579

00:23:59,740 --> 00:23:57,170

more of perfectly you know of macro

580

00:24:02,580 --> 00:23:59,750

scale objects it's just you it's a far

581

00:24:04,270 --> 00:24:02,590

more sophisticated level of

582

00:24:06,250 --> 00:24:04,280

manufacturing that you're bringing to

583

00:24:08,710 --> 00:24:06,260

them and control over the materials a

584

00:24:11,470 --> 00:24:08,720

lot of ways nanotechnology is just a

585

00:24:13,690 --> 00:24:11,480

sort of souped-up version of material

586

00:24:14,890 --> 00:24:13,700

science now in fact things have

587

00:24:16,900 --> 00:24:14,900

progressed in a lot of different ways

588

00:24:18,460 --> 00:24:16,910

and and I think at some point a lot of

589

00:24:20,920 --> 00:24:18,470

the nanotechnology people they think

590

00:24:23,650 --> 00:24:20,930

that we have seen the error of our ways

591

00:24:26,650 --> 00:24:23,660

and that we would have sort of quietly

592

00:24:28,450 --> 00:24:26,660

recanted all of this but it's like I

593

00:24:30,340 --> 00:24:28,460

think if people go back and read that

594

00:24:32,440 --> 00:24:30,350

article they will see that Gary actually

595

00:24:34,930 --> 00:24:32,450

made a perfectly good point and that

596

00:24:37,690 --> 00:24:34,940

what we were saying about the future of

597

00:24:39,820 --> 00:24:37,700

where say nanotechnology would be here

598

00:24:42,070 --> 00:24:39,830

in the year 2010 was quite a bit

599

00:24:43,960 --> 00:24:42,080

different from what a lot of the nano

600

00:24:45,320 --> 00:24:43,970

technology enthusiasts were saying at

601
00:24:47,690 --> 00:24:45,330
that same time

602
00:24:50,150 --> 00:24:47,700
so well I just want to go back to the

603
00:24:51,640 --> 00:24:50,160
creationists for a moment one of the

604
00:24:54,320 --> 00:24:51,650
things you talked about in your article

605
00:24:56,480 --> 00:24:54,330
15 answers to creationist nonsense was

606
00:24:58,820 --> 00:24:56,490
the the concept of a scientific theory

607
00:25:01,040 --> 00:24:58,830
and I guess this applies to more than

608
00:25:04,190 --> 00:25:01,050
just creationism or rather evolution in

609
00:25:06,230 --> 00:25:04,200
this particular case how do you respond

610
00:25:08,050 --> 00:25:06,240
to people who say I'm sure you get this

611
00:25:10,220 --> 00:25:08,060
all the time but that's just a theory

612
00:25:11,870 --> 00:25:10,230
right I mean this is you know this is

613
00:25:14,270 --> 00:25:11,880

one of those maddening things where r

614

00:25:16,580 --> 00:25:14,280

times you kind of wish the nomenclature

615

00:25:18,800 --> 00:25:16,590

were we're different yeah but you know

616

00:25:22,730 --> 00:25:18,810

it is what it is and all you can really

617

00:25:25,640 --> 00:25:22,740

try to do is to to emphasize to people

618

00:25:28,430 --> 00:25:25,650

that when scientists say something is a

619

00:25:30,860 --> 00:25:28,440

theory there they don't just mean that

620

00:25:33,830 --> 00:25:30,870

it's some sort of wild unsubstantiated

621

00:25:36,680 --> 00:25:33,840

idea that they're they're noodling

622

00:25:40,040 --> 00:25:36,690

around that that when something actually

623

00:25:42,620 --> 00:25:40,050

holds the the status of being a theory

624

00:25:45,110 --> 00:25:42,630

in there are certain criteria that it

625

00:25:46,970 --> 00:25:45,120

meets that and that that it goes to a

626

00:25:48,560 --> 00:25:46,980

certain level of it being testable that

627

00:25:50,660 --> 00:25:48,570

there were kind of hypotheses that would

628

00:25:52,970 --> 00:25:50,670

come out of that and that as a theory it

629

00:25:57,440 --> 00:25:52,980

also holds together some body of

630

00:25:59,600 --> 00:25:57,450

evidence it's a framework for for being

631

00:26:02,120 --> 00:25:59,610

able to understand what's going on but I

632

00:26:04,820 --> 00:26:02,130

think that there is this this notion I

633

00:26:08,600 --> 00:26:04,830

mean I vaguely remember having been

634

00:26:10,130 --> 00:26:08,610

taught this as a little boy and I think

635

00:26:12,470 --> 00:26:10,140

probably there are a lot of people out

636

00:26:14,330 --> 00:26:12,480

there who who do still have this in

637

00:26:16,400 --> 00:26:14,340

their heads I I hope it isn't still

638

00:26:17,810 --> 00:26:16,410

taught anything like this now but there

639

00:26:20,120 --> 00:26:17,820

is the sense that there's some kind of

640

00:26:23,510 --> 00:26:20,130

not even just like a hierarchy between

641

00:26:27,080 --> 00:26:23,520

the idea of facts and hypotheses and

642

00:26:28,160 --> 00:26:27,090

theories and and scientific laws but

643

00:26:30,920 --> 00:26:28,170

there's actually some sort of

644

00:26:32,600 --> 00:26:30,930

progression and that's the thing that a

645

00:26:35,180 --> 00:26:32,610

lot of people just don't understand that

646

00:26:37,250 --> 00:26:35,190

you know the theory of evolution no

647

00:26:39,590 --> 00:26:37,260

matter how much evidence ever comes

648

00:26:41,480 --> 00:26:39,600

together it's never going to be a law of

649

00:26:44,300 --> 00:26:41,490

no it's not going to suddenly get

650

00:26:46,640 --> 00:26:44,310

promoted to become a law of evolution

651
00:26:47,750 --> 00:26:46,650
you could you could argue you know I've

652
00:26:49,370 --> 00:26:47,760
never really seen anybody talked about

653
00:26:51,080 --> 00:26:49,380
this you could talk about laws of

654
00:26:53,330 --> 00:26:51,090
evolution you could you could talk about

655
00:26:55,520 --> 00:26:53,340
the idea that certain kinds of systems

656
00:26:57,470 --> 00:26:55,530
with certain kinds of qualities that it

657
00:26:59,150 --> 00:26:57,480
is a reasonable generalization about the

658
00:27:01,970 --> 00:26:59,160
way the universe works that it is going

659
00:27:04,610 --> 00:27:01,980
to evolve in some way but even that's

660
00:27:06,020 --> 00:27:04,620
not you know what what scientists are

661
00:27:08,620 --> 00:27:06,030
talking about they talk about the theory

662
00:27:11,390 --> 00:27:08,630
of evolution because they're they're

663
00:27:13,040 --> 00:27:11,400

completely certain that it exists but

664

00:27:14,630 --> 00:27:13,050

they just you know there are lots of

665

00:27:17,330 --> 00:27:14,640

different models and so forth thick and

666

00:27:20,420 --> 00:27:17,340

they can work their way into that um so

667

00:27:22,420 --> 00:27:20,430

it's if that's that goes to just a deep

668

00:27:25,670 --> 00:27:22,430

misunderstanding about something with

669

00:27:27,950 --> 00:27:25,680

within science but it's at least it's a

670

00:27:30,380 --> 00:27:27,960

kind of misunderstanding it's a kind of

671

00:27:32,510 --> 00:27:30,390

misunderstanding that I have some level

672

00:27:35,200 --> 00:27:32,520

of sympathy for at least among people

673

00:27:37,220 --> 00:27:35,210

among the general public who really

674

00:27:39,110 --> 00:27:37,230

genuinely just sort of innocent naive

675

00:27:41,000 --> 00:27:39,120

about a lot of these things I think a

676

00:27:43,850 --> 00:27:41,010

lot of people get missed taught about

677

00:27:46,700 --> 00:27:43,860

these subjects and so that ends part one

678

00:27:49,310 --> 00:27:46,710

of my interview with John R any tune in

679

00:27:51,230 --> 00:27:49,320

in two weeks time to hear part two where

680

00:27:53,540 --> 00:27:51,240

I talked to John in more detail about

681

00:27:55,190 --> 00:27:53,550

the public understanding of science and

682

00:27:58,790 --> 00:27:55,200

what is the role for the media in

683

00:28:08,830 --> 00:27:58,800

educating the public and until next time

684

00:28:13,190 --> 00:28:11,210

yeah aight guys i was talking to Richard

685

00:28:15,200 --> 00:28:13,200

solvency today all right he said if we

686

00:28:17,330 --> 00:28:15,210

record a trailer for our podcast

687

00:28:18,979 --> 00:28:17,340

skeptics with a que he'd play it on

688

00:28:20,359 --> 00:28:18,989

their on their show that's nice of him

689

00:28:21,529 --> 00:28:20,369

that's very generous it's pretty good

690

00:28:23,659 --> 00:28:21,539

i'm not sure what we could do though I

691

00:28:25,999 --> 00:28:23,669

mean well suppose you tell people shows

692

00:28:28,279 --> 00:28:26,009

about but it's basically this yeah like

693

00:28:29,930 --> 00:28:28,289

yeah but you know we talk about science

694

00:28:31,129 --> 00:28:29,940

and skepticism and things that's that's

695

00:28:33,080 --> 00:28:31,139

true I suppose here you mentioned the

696

00:28:35,599 --> 00:28:33,090

website address what merseyside skeptics

697

00:28:37,220 --> 00:28:35,609

todo UK yeah yeah just exertion iTunes

698

00:28:40,700 --> 00:28:37,230

oh and then we could end with like a big

699

00:28:48,520 --> 00:28:40,710

song like the skeptics with okay oh no

700

00:28:53,320 --> 00:28:50,680

many people are concerned about the roll

701
00:28:55,510 --> 00:28:53,330
out of the swine flu vaccine given that

702
00:28:57,400 --> 00:28:55,520
cases appear to be dwindling without the

703
00:28:59,740 --> 00:28:57,410
feared public health disaster that had

704
00:29:01,630 --> 00:28:59,750
been anticipated but there are reasons

705
00:29:03,910 --> 00:29:01,640
why the medical community needs to

706
00:29:06,880 --> 00:29:03,920
remain vigilant the World Health

707
00:29:10,060 --> 00:29:06,890
Organization's pandemic h1n1 weekly

708
00:29:12,990 --> 00:29:10,070
update has reported nearly 400,000

709
00:29:17,410 --> 00:29:13,000
confirmed cases of the virus with over

710
00:29:20,050 --> 00:29:17,420
4,700 deaths recorded in North America

711
00:29:22,210 --> 00:29:20,060
northern Asia and Western Europe cases

712
00:29:24,850 --> 00:29:22,220
of influenza like illness are steadily

713
00:29:27,430 --> 00:29:24,860

rising above seasonal baseline levels in

714

00:29:29,620 --> 00:29:27,440

the southern hemisphere cases have

715

00:29:32,590 --> 00:29:29,630

returned to below baseline levels with

716

00:29:34,720 --> 00:29:32,600

few cases reported last week the World

717

00:29:36,340 --> 00:29:34,730

Health Organization hosted a three-day

718

00:29:38,890 --> 00:29:36,350

meeting at the Pan American Health

719

00:29:40,510 --> 00:29:38,900

Organization in Washington looking at

720

00:29:43,720 --> 00:29:40,520

the clinical features and management of

721

00:29:45,370 --> 00:29:43,730

pandemic influenza while most patients

722

00:29:47,530 --> 00:29:45,380

are experiencing mild illness and

723

00:29:49,840 --> 00:29:47,540

recovering quickly there is concern

724

00:29:52,090 --> 00:29:49,850

regarding a small subset of patients who

725

00:29:53,830 --> 00:29:52,100

developed severe pneumonia requiring

726
00:29:56,890 --> 00:29:53,840
admission to intensive care and

727
00:29:58,540 --> 00:29:56,900
ventilator support treatment has proven

728
00:30:00,820 --> 00:29:58,550
to be very difficult with death

729
00:30:03,840 --> 00:30:00,830
frequently attributed to severe viral

730
00:30:06,010 --> 00:30:03,850
pneumonia directly related to the virus

731
00:30:08,710 --> 00:30:06,020
attendees noted a strikingly different

732
00:30:10,780 --> 00:30:08,720
pattern to seasonal influenza with many

733
00:30:14,080 --> 00:30:10,790
severe cases occurring in young healthy

734
00:30:16,810 --> 00:30:14,090
people in Australia and New Zealand

735
00:30:19,300 --> 00:30:16,820
nearly one-third of ICU patients had no

736
00:30:21,370 --> 00:30:19,310
underlying health conditions those at

737
00:30:22,840 --> 00:30:21,380
greatest risk however include pregnant

738
00:30:25,300 --> 00:30:22,850

women particularly in the third

739

00:30:27,160 --> 00:30:25,310

trimester children below two years of

740

00:30:31,120 --> 00:30:27,170

age and those with chronic lung disease

741

00:30:32,650 --> 00:30:31,130

including asthma the h1n1 vaccine was

742

00:30:34,750 --> 00:30:32,660

released several weeks ago and in

743

00:30:37,150 --> 00:30:34,760

Australia seasonal influenza vaccines

744

00:30:39,280 --> 00:30:37,160

including pain swelling and redness at

745

00:30:41,440 --> 00:30:39,290

the injection site and some systemic

746

00:30:43,980 --> 00:30:41,450

reactions such as fever headache or

747

00:30:46,240 --> 00:30:43,990

joint pain which lasts a couple of days

748

00:30:47,950 --> 00:30:46,250

the World Health Organization is

749

00:30:50,530 --> 00:30:47,960

encouraging reporting of any adverse

750

00:30:52,300 --> 00:30:50,540

events and sharing of this data in order

751
00:30:55,390 --> 00:30:52,310
to carry out further risk benefit

752
00:30:57,280 --> 00:30:55,400
assessment in particular health workers

753
00:31:00,730 --> 00:30:57,290
are encouraged to be vaccinated

754
00:31:03,790 --> 00:31:00,740
as a nurse I'm aware of the risks of the

755
00:31:08,080 --> 00:31:03,800
influenza virus and the risks and

756
00:31:10,240 --> 00:31:08,090
benefits of the swine flu vaccine so I

757
00:31:12,610 --> 00:31:10,250
decided to go and have my swine flu

758
00:31:18,100 --> 00:31:12,620
vaccine and I had it done earlier today

759
00:31:19,300 --> 00:31:18,110
and this is my experience so I've just

760
00:31:21,340 --> 00:31:19,310
read all the information about the

761
00:31:23,740 --> 00:31:21,350
vaccine and I've signed my little

762
00:31:25,480 --> 00:31:23,750
consent form here and I'm pretty

763
00:31:28,540 --> 00:31:25,490

confident that I'm aware of all the

764

00:31:37,420 --> 00:31:28,550

risks and that I'm happy to go ahead and

765

00:31:39,700 --> 00:31:37,430

have my vaccination done so Joanna do

766

00:31:42,010 --> 00:31:39,710

you ever had a normal influence of

767

00:31:44,290 --> 00:31:42,020

special designation yes okay and you've

768

00:31:46,030 --> 00:31:44,300

never had any reactions of it you have

769

00:31:47,820 --> 00:31:46,040

previously had any other flight they've

770

00:31:50,370 --> 00:31:47,830

helped sensitivities

771

00:31:53,190 --> 00:31:50,380

no or any severe allergies timing not at

772

00:31:57,149 --> 00:31:53,200

all and any other vaccinations that you

773

00:32:00,990 --> 00:31:57,159

can we actually know never reaction okay

774

00:32:02,610 --> 00:32:01,000

you're well today no debe no you haven't

775

00:32:06,539 --> 00:32:02,620

had a past history of guillain-barre

776
00:32:09,480 --> 00:32:06,549
syndrome bleeding disorder or pregnant

777
00:32:12,450 --> 00:32:09,490
no and you never had this vaccine yeah

778
00:32:14,460 --> 00:32:12,460
okay great alright so what I'm going to

779
00:32:16,980 --> 00:32:14,470
do is I'm just going to chat awhile with

780
00:32:18,810 --> 00:32:16,990
you this is a multi-dose vial and we've

781
00:32:23,669 --> 00:32:18,820
just open this this morning and will be

782
00:32:26,610 --> 00:32:23,679
just discarded after 24 hours ok so it's

783
00:32:29,669 --> 00:32:26,620
pan back h1n1 and the X borrowed a is

784
00:32:33,960 --> 00:32:29,679
heaven 2010 I'm just going to draw that

785
00:32:37,019 --> 00:32:33,970
up man this is a half mil dose out of

786
00:32:40,440 --> 00:32:37,029
that multi-dose vial right ok this is

787
00:32:42,090 --> 00:32:40,450
going to the intramuscular in your

788
00:32:44,310 --> 00:32:42,100

looked at two band-aids at all nothing

789

00:32:47,070 --> 00:32:44,320

much ok just relax you're up mm-hmm

790

00:32:50,340 --> 00:32:47,080

that's it just ok here we go

791

00:32:53,190 --> 00:32:50,350

just going in now pushing it in gently I

792

00:33:00,269 --> 00:32:53,200

better head at all that's good all

793

00:33:03,419 --> 00:33:00,279

finished fantastic just put hyde park in

794

00:33:05,730 --> 00:33:03,429

the bed now lay down below there you go

795

00:33:08,789 --> 00:33:05,740

do I get a lollipop I'll give you a

796

00:33:11,549 --> 00:33:08,799

favor you know what we like with you is

797

00:33:14,490 --> 00:33:11,559

not of it mm-hmm you can move your arm

798

00:33:16,560 --> 00:33:14,500

just as normal yep and what I'm going to

799

00:33:18,240 --> 00:33:16,570

do is give you this is your record and

800

00:33:20,430 --> 00:33:18,250

your vaccinations to after vaccination

801
00:33:23,100 --> 00:33:20,440
and the possible side effects and what

802
00:33:26,909 --> 00:33:23,110
to do about it fantastic if you'll have

803
00:33:28,590 --> 00:33:26,919
retired one of the rare reactions which

804
00:33:31,649 --> 00:33:28,600
usually happens within the first few

805
00:33:34,560 --> 00:33:31,659
minutes and you would actually go to

806
00:33:36,629 --> 00:33:34,570
your doctor or go to emergency if it

807
00:33:37,860 --> 00:33:36,639
didn't happen here ok if you have any

808
00:33:40,139 --> 00:33:37,870
swelling what difficulty breathing

809
00:33:41,730 --> 00:33:40,149
anything like that the minor reactions

810
00:33:44,070 --> 00:33:41,740
we still would like to hear about what

811
00:33:46,649 --> 00:33:44,080
we call more serious of the minor ones

812
00:33:49,320 --> 00:33:46,659
I'd say if you got swell swelling right

813
00:33:51,539 --> 00:33:49,330

down arm or anything like that in here

814

00:33:53,460 --> 00:33:51,549

we like feedback on them ok at there's

815

00:33:55,830 --> 00:33:53,470

no preference and the other thing is

816

00:33:57,870 --> 00:33:55,840

will require you wait in the waiting

817

00:33:59,730 --> 00:33:57,880

room for 15 minutes notta brought one

818

00:34:03,769 --> 00:33:59,740

all vaccinations excellent thank you

819

00:34:10,309 --> 00:34:05,659

well that's all done and over I've just

820

00:34:14,569 --> 00:34:10,319

walked out of the clinic and I'm now the

821

00:34:17,629 --> 00:34:14,579

proud bearer of the h1n1 vaccine that's

822

00:34:20,539 --> 00:34:17,639

sitting in my arm doing its work haven't

823

00:34:24,079 --> 00:34:20,549

grown a third head or a second header

824

00:34:34,490 --> 00:34:24,089

for that model and that was all very

825

00:34:36,440 --> 00:34:34,500

easy have you ever wondered why it

826

00:34:38,659 --> 00:34:36,450

supposedly took God seven days to create

827

00:34:40,819 --> 00:34:38,669

the world I mean if your God why not

828

00:34:42,289 --> 00:34:40,829

just do it in one day he ever thought

829

00:34:44,089 --> 00:34:42,299

that some religions have too much

830

00:34:45,470 --> 00:34:44,099

influence in our society that laws

831

00:34:47,629 --> 00:34:45,480

should be based on rational thought and

832

00:34:50,029 --> 00:34:47,639

evidence and not unprovable personal

833

00:34:52,069 --> 00:34:50,039

beliefs the global atheist convention

834

00:34:53,690 --> 00:34:52,079

will be held in Melbourne in March 2010

835

00:34:55,819 --> 00:34:53,700

it will be the largest gathering of

836

00:34:57,650 --> 00:34:55,829

atheists rationalist skeptics free

837

00:34:59,630 --> 00:34:57,660

thinkers and other like-minded people in

838

00:35:01,220 --> 00:34:59,640

Australia's history the presenter list

839

00:35:02,980 --> 00:35:01,230

is incredible and includes Richard

840

00:35:05,299 --> 00:35:02,990

Dawkins author of The God Delusion

841

00:35:06,859 --> 00:35:05,309

Katherine Deveny comedian and regular

842

00:35:08,960 --> 00:35:06,869

rider in Melbourne is the aged newspaper

843

00:35:11,150 --> 00:35:08,970

and PZ Myers author of the world's

844

00:35:13,490 --> 00:35:11,160

top-ranked science blog pharyngula plus

845

00:35:15,170 --> 00:35:13,500

many more this is a unique opportunity

846

00:35:16,760 --> 00:35:15,180

here from remarkable presenters and meet

847

00:35:18,920 --> 00:35:16,770

other people who just might think about

848

00:35:21,620 --> 00:35:18,930

religion and society the same way you do

849

00:35:23,900 --> 00:35:21,630

don't miss out go to atheist convention

850

00:35:27,710 --> 00:35:23,910

or go you for more information and

851
00:35:39,260 --> 00:35:30,710
who join us now for drinking skeptically

852
00:35:44,849 --> 00:35:42,660
and welcome to the think tank hello Joe

853
00:35:47,010 --> 00:35:44,859
and in a mood good evening Richard good

854
00:35:49,800 --> 00:35:47,020
evening and dr. AG of course hello

855
00:35:51,840 --> 00:35:49,810
Richard you choose to you Joe to cling

856
00:35:53,520 --> 00:35:51,850
cling cling cling cling cling we're back

857
00:35:55,109 --> 00:35:53,530
in our favorite room in our favorite

858
00:35:57,060 --> 00:35:55,119
club last week you'll remember what a

859
00:35:59,190 --> 00:35:57,070
couple of weeks ago we were forced out

860
00:36:03,120 --> 00:35:59,200
into the restaurant we were forced out

861
00:36:05,099 --> 00:36:03,130
against our will yes I mean we survived

862
00:36:06,690 --> 00:36:05,109
we've just been to the restaurant now

863
00:36:08,640 --> 00:36:06,700

we're back in our favorite room which is

864

00:36:10,470 --> 00:36:08,650

quite near the restaurant which is quite

865

00:36:14,240 --> 00:36:10,480

lucky I think we're all in a somewhat of

866

00:36:16,859 --> 00:36:14,250

a postprandial state right now so yes

867

00:36:18,810 --> 00:36:16,869

hyperglycemic right now I had satay

868

00:36:21,330 --> 00:36:18,820

chicken what did you hurt I had big

869

00:36:25,020 --> 00:36:21,340

chill me mmm Joe Dalton pepper chicken

870

00:36:26,280 --> 00:36:25,030

again again and I ate somebody's dessert

871

00:36:29,370 --> 00:36:26,290

i think was yours you ain't much

872

00:36:31,410 --> 00:36:29,380

Rachel's dessert I Jose did he try to

873

00:36:34,290 --> 00:36:31,420

eat yours too uh he tried but there

874

00:36:36,650 --> 00:36:34,300

wasn't much of it two steals oh please

875

00:36:40,170 --> 00:36:36,660

bastiaan discerned isn't this time ah

876

00:36:42,870 --> 00:36:40,180

now before we get into some interesting

877

00:36:45,120 --> 00:36:42,880

items which are ladies have found for us

878

00:36:51,540 --> 00:36:45,130

a couple of items which has come my way

879

00:36:55,230 --> 00:36:51,550

ladies ladies sorry I'm gonna like being

880

00:36:56,550 --> 00:36:55,240

naughty where no ladies listen thank you

881

00:36:58,440 --> 00:36:56,560

to all the people who have been

882

00:37:00,210 --> 00:36:58,450

commenting on the last episode of the

883

00:37:02,790 --> 00:37:00,220

skeptic zone now this was the interview

884

00:37:05,250 --> 00:37:02,800

that the Iran so give conducted with Ian

885

00:37:09,270 --> 00:37:05,260

Harris Professor Ian Harris an

886

00:37:12,420 --> 00:37:09,280

orthopedic surgeon it's caused a lot of

887

00:37:14,460 --> 00:37:12,430

chat a lot of controversy and if you

888

00:37:16,050 --> 00:37:14,470

haven't heard the interview if this is

889

00:37:17,609 --> 00:37:16,060

your first episode of the skeptics and

890

00:37:20,640 --> 00:37:17,619

we'll have a listen to the last one we

891

00:37:22,260 --> 00:37:20,650

did and you can you too can add your

892

00:37:23,790 --> 00:37:22,270

comments it's a it's quite interesting

893

00:37:25,890 --> 00:37:23,800

quite interesting thank you to other

894

00:37:29,930 --> 00:37:25,900

people who have taken time to comment

895

00:37:33,890 --> 00:37:29,940

i'd also like to plug the skeptical blog

896

00:37:38,370 --> 00:37:33,900

anthology 2009 you can check that out at

897

00:37:40,440 --> 00:37:38,380

WWE young skeptics com got a you /

898

00:37:43,230 --> 00:37:40,450

anthology and that's the young

899

00:37:47,220 --> 00:37:43,240

Australian skeptics which is young a us

900

00:37:49,290 --> 00:37:47,230

skeptics calm so check those out that's

901
00:37:50,730 --> 00:37:49,300
in conjunction with us as well Richard

902
00:37:52,080 --> 00:37:50,740
yeah highly asked

903
00:37:54,090 --> 00:37:52,090
just set that up with the young

904
00:37:55,890 --> 00:37:54,100
Australian skeptics she certainly did

905
00:37:58,740 --> 00:37:55,900
she's a busy girl she's very busy very

906
00:38:01,980 --> 00:37:58,750
busy now listen has brought this to my

907
00:38:05,640 --> 00:38:01,990
attention that the ABC television here

908
00:38:13,020 --> 00:38:05,650
in Australia have the gall the

909
00:38:16,710 --> 00:38:13,030
unmitigated gall the her the the the

910
00:38:19,980 --> 00:38:16,720
hood spa Joe I might say yes the hood

911
00:38:24,450 --> 00:38:19,990
spa yes to repeat that appalling show

912
00:38:26,580 --> 00:38:24,460
psychic investigator which they and the

913
00:38:29,609 --> 00:38:26,590

ABC one about two or three years ago the

914

00:38:32,520 --> 00:38:29,619

Australian skeptics bent spoon prize for

915

00:38:34,230 --> 00:38:32,530

the year for this rubbish however

916

00:38:37,350 --> 00:38:34,240

they're repeating it at something like 5

917

00:38:39,000 --> 00:38:37,360

30 or 50 for thirty in the morning which

918

00:38:42,150 --> 00:38:39,010

where it belongs no it doesn't long even

919

00:38:44,150 --> 00:38:42,160

better anyway vision at all it doesn't

920

00:38:46,440 --> 00:38:44,160

blow on any television no it doesn't I

921

00:38:49,800 --> 00:38:46,450

mean it doesn't even belong in history

922

00:38:51,720 --> 00:38:49,810

should be erased psychic investigators

923

00:38:54,270 --> 00:38:51,730

if you feel like punishing yourself list

924

00:38:57,180 --> 00:38:54,280

listeners in Australia set your VCRs or

925

00:38:59,160 --> 00:38:57,190

digital recorders or stay up late check

926

00:39:02,760 --> 00:38:59,170

your guides for psychic investigators

927

00:39:05,340 --> 00:39:02,770

it's complete drivel and it won the bent

928

00:39:06,960 --> 00:39:05,350

spoon on board it's similar to sensing

929

00:39:08,220 --> 00:39:06,970

murder which our new zealand listeners

930

00:39:11,370 --> 00:39:08,230

are being subjected to at the moment

931

00:39:14,160 --> 00:39:11,380

isn't it Richard it is which is about

932

00:39:16,590 --> 00:39:14,170

psychics allegedly solving crimes are

933

00:39:19,050 --> 00:39:16,600

assisting in solving crimes as I said a

934

00:39:21,630 --> 00:39:19,060

couple of weeks ago the number of crime

935

00:39:27,480 --> 00:39:21,640

solved by sensing murder rhymes with

936

00:39:30,030 --> 00:39:27,490

zero what else do we have our good

937

00:39:31,500 --> 00:39:30,040

friend Ben Radford the psychic

938

00:39:33,720 --> 00:39:31,510

investigator and the paranormal

939

00:39:37,470 --> 00:39:33,730

investigator generally I mean apparently

940

00:39:39,060 --> 00:39:37,480

he's got a short film our sirens and

941

00:39:40,950 --> 00:39:39,070

that's going to be appearing in Sydney

942

00:39:43,740 --> 00:39:40,960

here I think you can find out more

943

00:39:47,250 --> 00:39:43,750

information appearing in Sydney on the

944

00:39:49,859 --> 00:39:47,260

thirtieth of October and you can find

945

00:39:54,599 --> 00:39:49,869

out more information at fantastic planet

946

00:39:57,270 --> 00:39:54,609

film festival com Ben Radford is a top

947

00:39:59,200 --> 00:39:57,280

bloke he's an investigator works with it

948

00:40:03,070 --> 00:39:59,210

than for CSI I think

949

00:40:04,950 --> 00:40:03,080

boo furniture nickel absolutely now

950

00:40:07,960 --> 00:40:04,960

that's the science fiction science

951

00:40:09,910 --> 00:40:07,970

festival film festival that we've seen

952

00:40:12,609 --> 00:40:09,920

advertised on posters around the yeah

953

00:40:13,960 --> 00:40:12,619

that's right yeah yeah we're checking up

954

00:40:15,130 --> 00:40:13,970

please please have a look at that people

955

00:40:17,620 --> 00:40:15,140

in Sydney I think I'll be checking that

956

00:40:20,500 --> 00:40:17,630

out myself I'd like to give a shout out

957

00:40:24,430 --> 00:40:20,510

to we've had a request to mention the

958

00:40:27,430 --> 00:40:24,440

blob um who are they be you must society

959

00:40:30,670 --> 00:40:27,440

Minister Society of Victoria new website

960

00:40:33,010 --> 00:40:30,680

now that's there can be found via their

961

00:40:34,150 --> 00:40:33,020

meetup which I suggest you go to if

962

00:40:37,170 --> 00:40:34,160

you're interested in that sort of thing

963

00:40:40,839 --> 00:40:37,180

in your in Melbourne which is meetup.com

964

00:40:45,280 --> 00:40:40,849

Melbourne humanists check that out too

965

00:40:47,620 --> 00:40:45,290

and we will turn the page over here and

966

00:40:49,570 --> 00:40:47,630

I think that's just about it but we

967

00:40:51,640 --> 00:40:49,580

wanted to mention another skeptics in

968

00:40:54,040 --> 00:40:51,650

the pub Richard that start up and you're

969

00:40:56,349 --> 00:40:54,050

doing we did Dunedin yeah don't in

970

00:40:58,690 --> 00:40:56,359

Dunedin skeptics in the pub is can there

971

00:41:00,550 --> 00:40:58,700

be a city can there be a major city

972

00:41:02,440 --> 00:41:00,560

anywhere in the world but now doesn't

973

00:41:05,589 --> 00:41:02,450

have a skeptics in the pub I wonder

974

00:41:08,940 --> 00:41:05,599

possibly Tehran well Queenstown hasn't

975

00:41:13,329 --> 00:41:08,950

got one yet in New Zealand have they

976
00:41:15,780 --> 00:41:13,339
queenstown if you're interested Jaden's

977
00:41:18,220 --> 00:41:15,790
beat you to the pit to the pipe however

978
00:41:20,950 --> 00:41:18,230
anybody who has a skeptics in the pub

979
00:41:22,720 --> 00:41:20,960
especially in New Zealand are chris is

980
00:41:24,550 --> 00:41:22,730
close to Australia and you're feeling

981
00:41:29,339 --> 00:41:24,560
generous there are some skeptics are

982
00:41:31,780 --> 00:41:29,349
members in D long-term to come over and

983
00:41:33,370 --> 00:41:31,790
it's not expensive device Leah there

984
00:41:35,290 --> 00:41:33,380
will come over we'll give a talk will

985
00:41:37,240 --> 00:41:35,300
numb your food and it'll be great fun

986
00:41:39,910 --> 00:41:37,250
anyway you know actually there's very

987
00:41:42,460 --> 00:41:39,920
cheap tickets on the emirates a380 to

988
00:41:44,770 --> 00:41:42,470

Auckland yeah now Dunedin skeptics in

989

00:41:46,680 --> 00:41:44,780

the pub have a meetup group too but I

990

00:41:49,329 --> 00:41:46,690

think if you just go to meet up and

991

00:41:51,430 --> 00:41:49,339

search for done eatin skeptics in the

992

00:41:53,589 --> 00:41:51,440

pub I think you'd be right that's really

993

00:41:56,200 --> 00:41:53,599

exciting because the orkin skeptics in

994

00:41:59,079 --> 00:41:56,210

the pub is only a few weeks old mmm

995

00:42:02,500 --> 00:41:59,089

their first skeptics in the pub was just

996

00:42:05,079 --> 00:42:02,510

after dragoncon wasn't that way oh that

997

00:42:06,080 --> 00:42:05,089

was very successful yeah and in fact we

998

00:42:09,170 --> 00:42:06,090

had

999

00:42:10,610 --> 00:42:09,180

oh sure we didn't yes yes it's exciting

1000

00:42:12,320 --> 00:42:10,620

that delayed ins going that's really

1001
00:42:14,750 --> 00:42:12,330
know it's fantastic and the fact I think

1002
00:42:18,050 --> 00:42:14,760
honestly we should go I think we should

1003
00:42:20,120 --> 00:42:18,060
Christ Church has 12 don't know I think

1004
00:42:21,890 --> 00:42:20,130
so because that's the way of the head of

1005
00:42:24,110 --> 00:42:21,900
the New Zealand skeptic yeah you're

1006
00:42:26,540 --> 00:42:24,120
Vicki hide you he lives there yeah there

1007
00:42:27,710 --> 00:42:26,550
must be one in Christchurch and it was

1008
00:42:28,970 --> 00:42:27,720
so many good for hot pubs in

1009
00:42:32,420 --> 00:42:28,980
christchurch by the way Richard bit

1010
00:42:34,190 --> 00:42:32,430
anyway there's a great brewery there is

1011
00:42:38,660 --> 00:42:34,200
it yeah I mean maybe we'd have the

1012
00:42:42,290 --> 00:42:38,670
skeptics in the pub crawl Skilllex in the

1013
00:42:43,760 --> 00:42:42,300

pub crawl like the Sabbath thank you Sam

1014

00:42:46,160 --> 00:42:43,770

you can get these great cuz you'll be

1015

00:42:48,920 --> 00:42:46,170

crawling you finished you can get these

1016

00:42:50,900 --> 00:42:48,930

great beer tasting trees in Christchurch

1017

00:42:54,350 --> 00:42:50,910

and I can't remember the year very

1018

00:42:57,560 --> 00:42:54,360

tasting tree trees yes so it actually

1019

00:42:59,180 --> 00:42:57,570

it's a would reduce your hbu no no it's

1020

00:43:01,580 --> 00:42:59,190

a wooden structure shaped like a tree

1021

00:43:05,030 --> 00:43:01,590

and it has glasses that are about the

1022

00:43:07,160 --> 00:43:05,040

size and say a spice rack mice and they

1023

00:43:08,930 --> 00:43:07,170

sort of hang on the on the rack and then

1024

00:43:11,290 --> 00:43:08,940

they give you a selection of about ten

1025

00:43:13,580 --> 00:43:11,300

different beers for you to taste yeah

1026

00:43:16,280 --> 00:43:13,590

and I can't remember the name of the

1027

00:43:18,170 --> 00:43:16,290

brewery and its really good beer so I'm

1028

00:43:21,050 --> 00:43:18,180

sure somebody my research listeners

1029

00:43:25,400 --> 00:43:21,060

please if there's one called um Rachel

1030

00:43:28,010 --> 00:43:25,410

excuse and duck no TV so Rachel at

1031

00:43:29,510 --> 00:43:28,020

skipping zoned on TV yeah email me I

1032

00:43:31,370 --> 00:43:29,520

couldn't I'll think of it later i'm sure

1033

00:43:34,400 --> 00:43:31,380

i'll remember later now for our

1034

00:43:35,930 --> 00:43:34,410

listeners sake rachy if they want to

1035

00:43:38,750 --> 00:43:35,940

follow you on twitter what's your

1036

00:43:44,390 --> 00:43:38,760

twitter name dr. Reggie at dr. etjole

1037

00:43:47,900 --> 00:43:44,400

our minds Joe been hmoo Jo benh am you

1038

00:43:52,790 --> 00:43:47,910

and me which is really the show is at a

1039

00:43:55,040 --> 00:43:52,800

skeptic zone of course all right let's

1040

00:43:58,070 --> 00:43:55,050

kick off our general news section with

1041

00:44:02,320 --> 00:43:58,080

news on Simon Singh a good friend yes a

1042

00:44:07,400 --> 00:44:02,330

good friend Simon Singh he was granted

1043

00:44:10,660 --> 00:44:07,410

permission to undergo a full appeal in

1044

00:44:12,740 --> 00:44:10,670

his case of libel that's currently being

1045

00:44:15,320 --> 00:44:12,750

brought against him by the British

1046

00:44:17,870 --> 00:44:15,330

Chiropractic Association now some of our

1047

00:44:19,920 --> 00:44:17,880

listeners may remember that his first

1048

00:44:25,270 --> 00:44:19,930

preliminary hearing

1049

00:44:27,310 --> 00:44:25,280

the judge which was mr. justice 80 he

1050

00:44:30,910 --> 00:44:27,320

ruled on the definition of the word

1051
00:44:33,870 --> 00:44:30,920
bogus and he ruled that this meant the

1052
00:44:36,610 --> 00:44:33,880
BCA were deliberately and knowingly

1053
00:44:39,190 --> 00:44:36,620
deceiving the public by saying that some

1054
00:44:41,170 --> 00:44:39,200
of their treatments to cured or could

1055
00:44:43,540 --> 00:44:41,180
treat things like colic for example and

1056
00:44:44,820 --> 00:44:43,550
that was the point of Simon's original

1057
00:44:46,690 --> 00:44:44,830
article was that they said that

1058
00:44:49,870 --> 00:44:46,700
chiropractic could treat colic and

1059
00:44:51,910 --> 00:44:49,880
babies now he decided to take this to

1060
00:44:54,850 --> 00:44:51,920
appeal because he didn't believe that

1061
00:44:56,200 --> 00:44:54,860
was a fair judgment and so it was

1062
00:44:58,030 --> 00:44:56,210
difficult wasn't it for him to do that

1063
00:45:02,140 --> 00:44:58,040

very very difficult and potentially very

1064

00:45:06,300 --> 00:45:02,150

expensive because it may have failed but

1065

00:45:10,090 --> 00:45:06,310

in any case it didn't it was successful

1066

00:45:15,610 --> 00:45:10,100

the court judged this time whose name is

1067

00:45:17,290 --> 00:45:15,620

Lord Justice Laws interestingly he was

1068

00:45:18,760 --> 00:45:17,300

presiding over the appeal and he was

1069

00:45:21,760 --> 00:45:18,770

actually quite scathing at the original

1070

00:45:25,060 --> 00:45:21,770

ruling and in some of the commentary

1071

00:45:26,460 --> 00:45:25,070

that I read surrounding this ruling he

1072

00:45:29,680 --> 00:45:26,470

was quoted as calling it

1073

00:45:31,840 --> 00:45:29,690

disproportionate and erroneous really

1074

00:45:35,290 --> 00:45:31,850

yeah the other two strong it is quite

1075

00:45:38,950 --> 00:45:35,300

strong so Simon's lawyers had submitted

1076

00:45:42,160 --> 00:45:38,960

our extensive documentation to the court

1077

00:45:44,260 --> 00:45:42,170

prior to the hearing the vca was not

1078

00:45:46,990 --> 00:45:44,270

actually allowed to come to the appeal

1079

00:45:48,400 --> 00:45:47,000

hearing I was actually not allowed to go

1080

00:45:50,470 --> 00:45:48,410

I was just heard that they had an

1081

00:45:52,060 --> 00:45:50,480

attendant I know initially I heard that

1082

00:45:54,970 --> 00:45:52,070

they didn't hurt that they didn't they

1083

00:45:56,320 --> 00:45:54,980

weren't there but then I read I think on

1084

00:45:58,600 --> 00:45:56,330

Jack of Kent's blog that they weren't

1085

00:46:01,510 --> 00:45:58,610

allowed to go because it was an appeal

1086

00:46:04,990 --> 00:46:01,520

I'm not exactly sure but they weren't

1087

00:46:08,010 --> 00:46:05,000

there so Simon has now been given

1088

00:46:11,020 --> 00:46:08,020

permission to go away and come and

1089

00:46:15,130 --> 00:46:11,030

construct an appeal based on the

1090

00:46:17,650 --> 00:46:15,140

original ruling so it's still going to

1091

00:46:19,390 --> 00:46:17,660

be a long hard road for him it's still

1092

00:46:20,950 --> 00:46:19,400

going to be very difficult case but at

1093

00:46:22,780 --> 00:46:20,960

least he has been given this some

1094

00:46:25,720 --> 00:46:22,790

opportunity now on victory at the time

1095

00:46:28,630 --> 00:46:25,730

yes so we send our good wishes to Simon

1096

00:46:31,500 --> 00:46:28,640

and of course he's had lots and lots of

1097

00:46:33,690 --> 00:46:31,510

support sense about science have been

1098

00:46:35,830 --> 00:46:33,700

very very active

1099

00:46:37,720 --> 00:46:35,840

getting people making people aware of

1100

00:46:39,130 --> 00:46:37,730

what's been happening and of course the

1101

00:46:41,110 --> 00:46:39,140

overall point of this case and we've

1102

00:46:44,140 --> 00:46:41,120

discussed this before and the publicity

1103

00:46:46,600 --> 00:46:44,150

campaign is to make people aware at the

1104

00:46:48,430 --> 00:46:46,610

dangers of the library laws yeah well

1105

00:46:50,470 --> 00:46:48,440

there is potential restrictive pneus of

1106

00:46:52,000 --> 00:46:50,480

the liability they might be changed

1107

00:46:53,650 --> 00:46:52,010

because of this case well this is what

1108

00:46:56,530 --> 00:46:53,660

this is all about there's so many

1109

00:46:59,440 --> 00:46:56,540

powerful and respected voices that have

1110

00:47:04,030 --> 00:46:59,450

gotten behind it that and I think it

1111

00:47:05,890 --> 00:47:04,040

really does force the the British legal

1112

00:47:08,500 --> 00:47:05,900

system to set up and take notice and

1113

00:47:11,590 --> 00:47:08,510

look at what those laws Exel and who

1114

00:47:13,450 --> 00:47:11,600

knows after this case is through Simon

1115

00:47:17,020 --> 00:47:13,460

Singh might even need some spiritual

1116

00:47:19,450 --> 00:47:17,030

cleansing do you like that so well that

1117

00:47:21,730 --> 00:47:19,460

was just before we go on to that segue

1118

00:47:23,670 --> 00:47:21,740

can I just remind our listeners if you

1119

00:47:26,200 --> 00:47:23,680

haven't been to sense about science

1120

00:47:28,860 --> 00:47:26,210

please go there and sign the petition

1121

00:47:32,380 --> 00:47:28,870

mmm which has been signed by people like

1122

00:47:35,110 --> 00:47:32,390

Stephen Fry Ricky Gervais is to do

1123

00:47:39,390 --> 00:47:35,120

ourselves Richard Dawkins Joanne better

1124

00:47:43,420 --> 00:47:39,400

move which is basically expressing your

1125

00:47:44,980 --> 00:47:43,430

disapproval for the laws in the UK so

1126

00:47:46,570 --> 00:47:44,990

and you can keep up to date with what's

1127

00:47:50,200 --> 00:47:46,580

happening through that as well they sent

1128

00:47:51,880 --> 00:47:50,210

very good dumb updates yeah and also the

1129

00:47:53,620 --> 00:47:51,890

BCA unhappy about sense about science

1130

00:47:55,120 --> 00:47:53,630

doing that either they think that

1131

00:47:59,500 --> 00:47:55,130

they're running a campaign against them

1132

00:48:02,220 --> 00:47:59,510

or something dear dear dear yes so you

1133

00:48:04,270 --> 00:48:02,230

mentioned spiritual cleansing Richard

1134

00:48:07,360 --> 00:48:04,280

what would you like to know about that

1135

00:48:09,820 --> 00:48:07,370

where can I get it well Jonny knows

1136

00:48:14,290 --> 00:48:09,830

about this too I think this is a story

1137

00:48:17,590 --> 00:48:14,300

about a a spiritual cleansing session

1138

00:48:19,600 --> 00:48:17,600

which was run by james arthur ray and he

1139

00:48:23,200 --> 00:48:19,610

runs a spiritual retreat in arizona in

1140

00:48:25,360 --> 00:48:23,210

the united states basically he charges

1141

00:48:27,760 --> 00:48:25,370

about 10,000 u.s. dollars for people to

1142

00:48:31,180 --> 00:48:27,770

come and have a spiritual awakening and

1143

00:48:32,830 --> 00:48:31,190

realize their true abilities i wish i

1144

00:48:35,140 --> 00:48:32,840

had to charge ten thousand and my

1145

00:48:38,080 --> 00:48:35,150

understanding about this guy's that he

1146

00:48:39,970 --> 00:48:38,090

was the man behind the secret well that

1147

00:48:42,730 --> 00:48:39,980

he had something here i'm actually not

1148

00:48:44,290 --> 00:48:42,740

completely accurate initially when this

1149

00:48:45,980 --> 00:48:44,300

happened because basically what happened

1150

00:48:49,359 --> 00:48:45,990

was he was running this

1151

00:48:52,010 --> 00:48:49,369

retreat and he had you know very small

1152

00:48:57,290 --> 00:48:52,020

what he what was known as a sweat sauna

1153

00:48:58,520 --> 00:48:57,300

he had about 60 55 to 65 people I'm he

1154

00:49:00,590 --> 00:48:58,530

were all sitting in complete blackness

1155

00:49:04,070 --> 00:49:00,600

with the temperature elevated to above

1156

00:49:07,310 --> 00:49:04,080

was about over 55 degrees I think some

1157

00:49:09,140 --> 00:49:07,320

Celsius really which is I mean I've

1158

00:49:11,330 --> 00:49:09,150

hundred twenty degrees Fahrenheit I've

1159

00:49:13,490 --> 00:49:11,340

been in one nice live in Germany i went

1160

00:49:16,820 --> 00:49:13,500

to used to go quite often persona to the

1161

00:49:18,620 --> 00:49:16,830

bad house and some of those saunas get

1162

00:49:20,780 --> 00:49:18,630

pretty hot and it's pretty hard that i

1163

00:49:23,180 --> 00:49:20,790

can tell you hmm well in this case some

1164

00:49:25,400 --> 00:49:23,190

two people actually died actually a

1165

00:49:27,620 --> 00:49:25,410

third persons died i read a third person

1166

00:49:29,750 --> 00:49:27,630

died after being admitted to hospital

1167

00:49:31,430 --> 00:49:29,760

two people died on site and 19 were

1168

00:49:34,790 --> 00:49:31,440

taken to hospital suffering from

1169

00:49:36,440 --> 00:49:34,800

dehydration burns respiratory arrest and

1170

00:49:38,090 --> 00:49:36,450

kidney failure and this was thought to

1171

00:49:39,590 --> 00:49:38,100

be associated not just with lack of

1172

00:49:41,810 --> 00:49:39,600

oxygen but with the elevated

1173

00:49:44,359 --> 00:49:41,820

temperatures and also overcrowding in

1174

00:49:46,160 --> 00:49:44,369

the spot in the sauna because it was

1175

00:49:48,590 --> 00:49:46,170

pitch black nobody knew that these

1176
00:49:50,120 --> 00:49:48,600
people had basically dropped dead during

1177
00:49:51,950 --> 00:49:50,130
this session and the session went for up

1178
00:49:54,830 --> 00:49:51,960
to a was scheduled to go out for about

1179
00:49:57,560 --> 00:49:54,840
two hours and think so because I think

1180
00:50:00,470 --> 00:49:57,570
this ritual has some sort of Native

1181
00:50:01,880 --> 00:50:00,480
American tradition yeah I think that's

1182
00:50:04,520 --> 00:50:01,890
true yeah and they were interviewing

1183
00:50:06,740 --> 00:50:04,530
people from the from those traditions

1184
00:50:09,560 --> 00:50:06,750
who were saying that typically this this

1185
00:50:12,770 --> 00:50:09,570
ritual normally is supposed to take no

1186
00:50:15,230 --> 00:50:12,780
more than about 15 minutes and that you

1187
00:50:17,150 --> 00:50:15,240
know this this ritual in this case the

1188
00:50:19,460 --> 00:50:17,160

spiritual cleansing is going as Rachel

1189

00:50:21,620 --> 00:50:19,470

said for almost two hours that's

1190

00:50:23,240 --> 00:50:21,630

ridiculous I mean again having have my

1191

00:50:24,770 --> 00:50:23,250

experience on the sauna receive stats

1192

00:50:27,080 --> 00:50:24,780

you sit in there for a little while and

1193

00:50:28,970 --> 00:50:27,090

then it feels pretty good and then it

1194

00:50:30,620 --> 00:50:28,980

starts to get a bit much it jump out you

1195

00:50:31,940 --> 00:50:30,630

jump to a cold forward and if you like

1196

00:50:34,849 --> 00:50:31,950

you're gonna pass out yeah you go back

1197

00:50:37,580 --> 00:50:34,859

in again like we did but two hours is

1198

00:50:39,020 --> 00:50:37,590

crazy crazy well you're right Joe I mean

1199

00:50:42,410 --> 00:50:39,030

it says in this news article here from

1200

00:50:44,780 --> 00:50:42,420

times online in the UK that I'm it has

1201

00:50:46,670 --> 00:50:44,790

this the whole situation has outraged

1202

00:50:48,859 --> 00:50:46,680

many Native Americans who complained

1203

00:50:52,520 --> 00:50:48,869

that their tribal traditions were being

1204

00:50:54,770 --> 00:50:52,530

hijacked by quacks charlatans and what

1205

00:50:57,140 --> 00:50:54,780

one tribal leader described as imitation

1206

00:50:58,670 --> 00:50:57,150

Indians well I mean that's actually a

1207

00:51:01,780 --> 00:50:58,680

very interesting point and and I

1208

00:51:05,900 --> 00:51:01,790

I'm spoken about that previously in

1209

00:51:08,570 --> 00:51:05,910

regards to other things so many of the

1210

00:51:12,190 --> 00:51:08,580

the traditional rituals of various

1211

00:51:15,910 --> 00:51:12,200

cultures I think have been hijacked by

1212

00:51:18,830 --> 00:51:15,920

Westerners seeking some sort of

1213

00:51:22,760 --> 00:51:18,840

spiritualism and often it just

1214

00:51:25,790 --> 00:51:22,770

completely it just takes it completely a

1215

00:51:27,590 --> 00:51:25,800

out of its context and regardless of

1216

00:51:29,990 --> 00:51:27,600

whether there's any sort of basis in

1217

00:51:33,700 --> 00:51:30,000

reality for what's being done in those

1218

00:51:37,490 --> 00:51:33,710

traditions it's just it's completely um

1219

00:51:41,420 --> 00:51:37,500

bastardized even even things like the

1220

00:51:43,580 --> 00:51:41,430

way a lot of Eastern philosophy is used

1221

00:51:46,820 --> 00:51:43,590

in things like therapeutic touch and

1222

00:51:49,040 --> 00:51:46,830

various other sort of strange well it's

1223

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

like the hoppy ear candles isn't it and

1224

00:51:53,030 --> 00:51:51,060

it's supposed to be derived from the

1225

00:51:55,700 --> 00:51:53,040

hoppy tribe which is actually completely

1226

00:51:57,680 --> 00:51:55,710

untrue they in fact just hijack that to

1227

00:51:59,660 --> 00:51:57,690

make it sound like it had a basis in

1228

00:52:01,430 --> 00:51:59,670

some sort of mister Cee's yeah which is

1229

00:52:02,990 --> 00:52:01,440

not true but you mentioned earlier that

1230

00:52:05,720 --> 00:52:03,000

you thought this guy had something to do

1231

00:52:07,490 --> 00:52:05,730

with the secret initial news report said

1232

00:52:09,860 --> 00:52:07,500

that he had been involved in the writing

1233

00:52:12,860 --> 00:52:09,870

of the secret but when I did some

1234

00:52:17,420 --> 00:52:12,870

further digging I found that he had been

1235

00:52:19,790 --> 00:52:17,430

because he's basically a um he's hit he

1236

00:52:22,670 --> 00:52:19,800

espouses a theory called harmonic wealth

1237

00:52:26,150 --> 00:52:22,680

which employ knives as well yeah I like

1238

00:52:29,360 --> 00:52:26,160

the sound of a boy are you wealthy I

1239

00:52:32,000 --> 00:52:29,370

like the signal moving right along okay

1240

00:52:34,640 --> 00:52:32,010

he emphasizes the power of positive

1241

00:52:36,890 --> 00:52:34,650

thinking and achieving success which is

1242

00:52:40,160 --> 00:52:36,900

similar basis to the secret obviously so

1243

00:52:43,190 --> 00:52:40,170

he's been invited on to speak on oprah

1244

00:52:45,800 --> 00:52:43,200

winfrey show a couple of times yeah

1245

00:52:49,220 --> 00:52:45,810

which brings me to another sort of arm

1246

00:52:52,910 --> 00:52:49,230

to this story in fact there was another

1247

00:52:56,120 --> 00:52:52,920

story based around this incident which

1248

00:52:58,840 --> 00:52:56,130

really had a go at Oprah around this

1249

00:53:02,600 --> 00:52:58,850

sort of promoting these quacks who

1250

00:53:04,310 --> 00:53:02,610

talked about you know getting getting

1251
00:53:06,620 --> 00:53:04,320
what you want from thinking about it and

1252
00:53:08,600 --> 00:53:06,630
positive thinking because I think you

1253
00:53:10,040 --> 00:53:08,610
might remember you both of you might

1254
00:53:11,150 --> 00:53:10,050
remember a few months ago there was a

1255
00:53:13,400 --> 00:53:11,160
story

1256
00:53:15,950 --> 00:53:13,410
written in was at Newsweek I think yes

1257
00:53:18,650 --> 00:53:15,960
criticizing Oprah for the phone yes and

1258
00:53:21,170 --> 00:53:18,660
it was called bad medicine yes yes yes

1259
00:53:23,060 --> 00:53:21,180
famous famous reporting yeah and how she

1260
00:53:25,610 --> 00:53:23,070
invites all these quacks onto her show

1261
00:53:27,350 --> 00:53:25,620
and then you know just by having a mere

1262
00:53:29,450 --> 00:53:27,360
that lends some legitimacy and then and

1263
00:53:30,800 --> 00:53:29,460

then actually responded by saying that

1264

00:53:32,750 --> 00:53:30,810

all that she was doing is providing

1265

00:53:35,330 --> 00:53:32,760

information and that her audience

1266

00:53:37,220 --> 00:53:35,340

members were quite capable of deducing

1267

00:53:38,990 --> 00:53:37,230

for themselves whether or not the

1268

00:53:41,450 --> 00:53:39,000

information is actually worth following

1269

00:53:45,110 --> 00:53:41,460

that's correct year she did but this

1270

00:53:47,600 --> 00:53:45,120

article here from the times online in

1271

00:53:49,220 --> 00:53:47,610

the UK says that she needs to probably

1272

00:53:51,110 --> 00:53:49,230

start really thinking about her

1273

00:53:53,960 --> 00:53:51,120

endorsement of people like this because

1274

00:53:56,180 --> 00:53:53,970

he has been on her show and as a result

1275

00:53:59,060 --> 00:53:56,190

of his quackery three people are now

1276
00:54:00,500 --> 00:53:59,070
dead and there are still over a dozen in

1277
00:54:03,320 --> 00:54:00,510
hospital we could say the same thing

1278
00:54:05,090 --> 00:54:03,330
about certain a Current Affair shows in

1279
00:54:08,420 --> 00:54:05,100
this country without promote anybody

1280
00:54:09,920 --> 00:54:08,430
yeah well I think Joe is going to talk

1281
00:54:12,230 --> 00:54:09,930
about this a little bit too but in this

1282
00:54:15,050 --> 00:54:12,240
article they mentioned that Winfrey

1283
00:54:16,160 --> 00:54:15,060
loves the likes of Suzanne Somers who

1284
00:54:19,610 --> 00:54:16,170
you're going to talk about in a minute

1285
00:54:21,860 --> 00:54:19,620
zone but also jenny mccarthy whom we all

1286
00:54:23,630 --> 00:54:21,870
familiar with which this article cites

1287
00:54:26,750 --> 00:54:23,640
as a former Playboy model and the

1288
00:54:28,370 --> 00:54:26,760

girlfriend of jim carrey who appeared on

1289

00:54:31,850 --> 00:54:28,380

oprah' to warn against the MMR

1290

00:54:33,620 --> 00:54:31,860

vaccination and it also mentions here

1291

00:54:35,780 --> 00:54:33,630

that Winfrey was embarrassed when a

1292

00:54:37,960 --> 00:54:35,790

series of memoir memoirs she had

1293

00:54:39,710 --> 00:54:37,970

promoted turned out to have been bogus

1294

00:54:41,510 --> 00:54:39,720

now don't know if you remember this

1295

00:54:44,390 --> 00:54:41,520

story there was a guy called James Frey

1296

00:54:46,790 --> 00:54:44,400

as he wrote a book about his surviving

1297

00:54:49,010 --> 00:54:46,800

the holocaust on account of Holocaust

1298

00:54:51,920 --> 00:54:49,020

survival and it turned out to be

1299

00:54:54,290 --> 00:54:51,930

absolute fabrication yes this was

1300

00:54:56,030 --> 00:54:54,300

actually a really unpleasant this this

1301

00:54:59,030 --> 00:54:56,040

man if it's the one I'm thinking of this

1302

00:55:01,130 --> 00:54:59,040

man wrote wrote this book claiming I

1303

00:55:02,690 --> 00:55:01,140

think to have been in I think he claimed

1304

00:55:07,280 --> 00:55:02,700

to have been in Auschwitz or rum

1305

00:55:10,880 --> 00:55:07,290

Treblinka and if if this is correct he

1306

00:55:13,820 --> 00:55:10,890

claimed to have met his wife while in

1307

00:55:16,250 --> 00:55:13,830

the camp and they had fallen in love and

1308

00:55:18,770 --> 00:55:16,260

they'd written this whole he written so

1309

00:55:21,309 --> 00:55:18,780

book about their story and how they love

1310

00:55:24,999 --> 00:55:21,319

had survived this whole

1311

00:55:26,999 --> 00:55:25,009

horrific internment and it turned out

1312

00:55:30,420 --> 00:55:27,009

that I think they were you know

1313

00:55:32,709 --> 00:55:30,430

american-born couple from Long Island

1314

00:55:34,509 --> 00:55:32,719

lived there their entire I haven't had

1315

00:55:37,299 --> 00:55:34,519

fabricated anti story what was so

1316

00:55:40,839 --> 00:55:37,309

terrible about it was that it's exactly

1317

00:55:43,660 --> 00:55:40,849

this kind of thing that you know and as

1318

00:55:45,279 --> 00:55:43,670

we often say the fact that anyone should

1319

00:55:48,759 --> 00:55:45,289

need to prove that the Holocaust

1320

00:55:50,620 --> 00:55:48,769

happened is a travesty that in this day

1321

00:55:52,420 --> 00:55:50,630

and age which anyone should even have to

1322

00:55:54,400 --> 00:55:52,430

provide evidence to anyone the Holocaust

1323

00:55:58,299 --> 00:55:54,410

happened is appalling and this man's

1324

00:55:59,769 --> 00:55:58,309

story puts Holocaust scholars in a

1325

00:56:03,759 --> 00:55:59,779

position where they're having to somehow

1326
00:56:06,370 --> 00:56:03,769
justify and prove and what he did really

1327
00:56:08,589 --> 00:56:06,380
did a lot of damage to do that so it was

1328
00:56:09,759 --> 00:56:08,599
quite unpleasant little episode it's

1329
00:56:11,829 --> 00:56:09,769
funny though Joe because it was

1330
00:56:13,809 --> 00:56:11,839
described by Oprah as and I quote the

1331
00:56:17,380 --> 00:56:13,819
greatest single love story we've ever

1332
00:56:18,849 --> 00:56:17,390
told on the air and I think that was

1333
00:56:20,979 --> 00:56:18,859
what was so awful about it was that if

1334
00:56:23,680 --> 00:56:20,989
this man had written the story as a

1335
00:56:25,979 --> 00:56:23,690
piece of fiction hmm it will probably

1336
00:56:28,209 --> 00:56:25,989
still have been a very beautiful tale

1337
00:56:30,400 --> 00:56:28,219
but the fact that he made it and

1338
00:56:33,699 --> 00:56:30,410

presented as fact and the fact that

1339

00:56:36,039 --> 00:56:33,709

Oprah of course endorsed you know

1340

00:56:37,900 --> 00:56:36,049

Oprah's name on anything you've said it

1341

00:56:40,479 --> 00:56:37,910

ringing it's a it's a number one seller

1342

00:56:42,130 --> 00:56:40,489

immediately I can't help thinking it's

1343

00:56:44,579 --> 00:56:42,140

just crossed my mind there is a strange

1344

00:56:48,670 --> 00:56:44,589

correlation here between that story and

1345

00:56:52,839 --> 00:56:48,680

irregular mm-hmm in so much as that if

1346

00:56:55,630 --> 00:56:52,849

Erie Geller and said he is a magician

1347

00:56:58,509 --> 00:56:55,640

and look at this great action today he

1348

00:57:01,180 --> 00:56:58,519

would be a hero of fun entertainment and

1349

00:57:04,239 --> 00:57:01,190

probably skepticism science you know but

1350

00:57:07,839 --> 00:57:04,249

no he had to he had to myself it and

1351

00:57:10,150 --> 00:57:07,849

make out it was real so it it's an

1352

00:57:11,769 --> 00:57:10,160

interesting just crushed my mother but

1353

00:57:14,859 --> 00:57:11,779

but it reminds me a little bit of how

1354

00:57:18,309 --> 00:57:14,869

you know I've often felt about people

1355

00:57:20,739 --> 00:57:18,319

who don't see the wonder of the universe

1356

00:57:23,979 --> 00:57:20,749

as it stands and need something mystical

1357

00:57:26,049 --> 00:57:23,989

and supernatural to give it wonder I

1358

00:57:29,860 --> 00:57:26,059

mean if you can't look at the universe

1359

00:57:32,260 --> 00:57:29,870

around us and not think holy crap

1360

00:57:34,900 --> 00:57:32,270

then you're kind of missing yeah yes oh

1361

00:57:36,660 --> 00:57:34,910

well yes suzanne somers is another one

1362

00:57:41,350 --> 00:57:36,670

of oprah winfrey's favorite little

1363

00:57:44,560 --> 00:57:41,360

endorsements um so many of you would

1364

00:57:47,590 --> 00:57:44,570

probably remember her from her about yes

1365

00:57:49,930 --> 00:57:47,600

three I don't know me absolutely when it

1366

00:57:52,840 --> 00:57:49,940

first came out even I remember it and

1367

00:57:54,640 --> 00:57:52,850

I'm you've got a few years on me Richard

1368

00:57:58,030 --> 00:57:54,650

but I remember three which was a an

1369

00:57:59,940 --> 00:57:58,040

American version of a British sitcom

1370

00:58:03,850 --> 00:57:59,950

called man about the house that's right

1371

00:58:07,450 --> 00:58:03,860

so Suzanne Somers in her more recent

1372

00:58:11,410 --> 00:58:07,460

guys has been heavily promoting

1373

00:58:14,170 --> 00:58:11,420

bioidentical hormones on eyeshadow on

1374

00:58:16,600 --> 00:58:14,180

Oprah amongst other things and she seems

1375

00:58:19,210 --> 00:58:16,610

to inject himself and rub herself and

1376

00:58:22,060 --> 00:58:19,220

cover herself and just about every

1377

00:58:26,590 --> 00:58:22,070

possible or weird thing that she can

1378

00:58:32,560 --> 00:58:26,600

come across all in an attempt to so long

1379

00:58:37,060 --> 00:58:32,570

ah what say I open up and say ahh all in

1380

00:58:41,110 --> 00:58:37,070

an attempt to stop the aging process but

1381

00:58:43,690 --> 00:58:41,120

her latest effort is a book that's a

1382

00:58:44,770 --> 00:58:43,700

glass washer at the bar ladies and

1383

00:58:48,790 --> 00:58:44,780

gentlemen you can hear in the background

1384

00:58:52,590 --> 00:58:48,800

carry on chair like a plane about table

1385

00:58:54,780 --> 00:58:52,600

um alright so Suzanne Somers is now

1386

00:58:58,750 --> 00:58:54,790

she's just published a book called

1387

00:59:01,900 --> 00:58:58,760

knockout and she's now going against

1388

00:59:04,930 --> 00:59:01,910

conventional cancer therapies only

1389

00:59:07,120 --> 00:59:04,940

chemotherapy oh so thank you suzanne

1390

00:59:12,330 --> 00:59:07,130

somers for once again providing us with

1391

00:59:15,070 --> 00:59:12,340

your your superior scientific intellect

1392

00:59:18,160 --> 00:59:15,080

and you knew I respectively more

1393

00:59:20,890 --> 00:59:18,170

evidence-based I'm and in fact this

1394

00:59:25,770 --> 00:59:20,900

article I've got here from the eighth

1395

00:59:28,270 --> 00:59:25,780

from Associated Press today comments on

1396

00:59:30,230 --> 00:59:28,280

dr. Otis Brawley from the American

1397

00:59:33,830 --> 00:59:30,240

Cancer Society what a great

1398

00:59:35,180 --> 00:59:33,840

yes whoo-hoo basically says that he's

1399

00:59:36,710 --> 00:59:35,190

very worried that people are going to

1400

00:59:41,230 --> 00:59:36,720

listen to her message and follow what

1401
00:59:46,520 --> 00:59:43,400
particularly highlighting the fact that

1402
00:59:48,680 --> 00:59:46,530
celebrities and sports stars feel that

1403
00:59:50,540 --> 00:59:48,690
they can use their fame to give out

1404
00:59:52,970 --> 00:59:50,550
medical advice and it's something that

1405
00:59:54,800 --> 00:59:52,980
we see so much of these days from as we

1406
00:59:58,010 --> 00:59:54,810
as we've said people like ginger coffee

1407
01:00:02,000 --> 00:59:58,020
but he specifically referred to people

1408
01:00:04,730 --> 01:00:02,010
like Don Imus the radio host who is

1409
01:00:06,530 --> 01:00:04,740
apparently eating habanero peppers and

1410
01:00:11,030 --> 01:00:06,540
taking Japanese soy supplements to treat

1411
01:00:12,440 --> 01:00:11,040
his prostate cancer and of course you

1412
01:00:17,330 --> 01:00:12,450
know they also referred to bill Mahar

1413
01:00:20,180 --> 01:00:17,340

who as we know his his endorsement or

1414

01:00:22,280 --> 01:00:20,190

attack his attack on vaccinations and

1415

01:00:24,740 --> 01:00:22,290

his endorsement of various sorry Joe his

1416

01:00:27,140 --> 01:00:24,750

new name is the Richard Dawkins award

1417

01:00:30,500 --> 01:00:27,150

feel ya we haven't remembered to say

1418

01:00:31,730 --> 01:00:30,510

that so as I'm saying Don Imus was one

1419

01:00:33,200 --> 01:00:31,740

of the examples and of course many

1420

01:00:36,020 --> 01:00:33,210

people would remember Steve McQueen and

1421

01:00:38,180 --> 01:00:36,030

how he went down to Mexico oh I was

1422

01:00:42,380 --> 01:00:38,190

taking like trial which has been

1423

01:00:45,080 --> 01:00:42,390

completely shown to be ineffective so

1424

01:00:50,080 --> 01:00:45,090

Suzanne Somers now is promoting this

1425

01:00:53,150 --> 01:00:50,090

book and no doubt will be seen on Oprah

1426

01:00:55,990 --> 01:00:53,160

publicizing this one as well and in fact

1427

01:00:59,270 --> 01:00:56,000

the other thing that she did was she

1428

01:01:01,790 --> 01:00:59,280

when patrick swayze died she came out

1429

01:01:03,770 --> 01:01:01,800

and commented that chemotherapy you had

1430

01:01:05,570 --> 01:01:03,780

had had more than likely been

1431

01:01:08,120 --> 01:01:05,580

responsible for his death rather than

1432

01:01:09,740 --> 01:01:08,130

his pancreatic cancer and the tabloids

1433

01:01:12,410 --> 01:01:09,750

went nuts over that one she had to come

1434

01:01:14,570 --> 01:01:12,420

out and apologize but I mean once again

1435

01:01:16,150 --> 01:01:14,580

is just another example of someone with

1436

01:01:19,790 --> 01:01:16,160

absolutely no medical or scientific

1437

01:01:21,830 --> 01:01:19,800

qualifications mouthing off and thinking

1438

01:01:25,640 --> 01:01:21,840

that they have some position to be doing

1439

01:01:27,590 --> 01:01:25,650

this and endorsed by otra sorry yeah I

1440

01:01:29,300 --> 01:01:27,600

got time I protects responsibility for

1441

01:01:31,609 --> 01:01:29,310

her nonsense but anyway yes before we

1442

01:01:35,420 --> 01:01:31,619

move on i'll quickly mention to our

1443

01:01:39,109 --> 01:01:35,430

listeners that there's a new channel on

1444

01:01:41,120 --> 01:01:39,119

the blip TV on the internet blip TV i

1445

01:01:42,180 --> 01:01:41,130

think it's blip TV anyway it's it's sort

1446

01:01:44,550 --> 01:01:42,190

of like youtube

1447

01:01:46,470 --> 01:01:44,560

and there's a story up there I noticed

1448

01:01:48,630 --> 01:01:46,480

just placed up the other week about a

1449

01:01:50,300 --> 01:01:48,640

family in Western Australia here in

1450

01:01:53,370 --> 01:01:50,310

Australia who took their daughter

1451

01:01:57,330 --> 01:01:53,380

terminally ill out of proper medical

1452

01:02:00,060 --> 01:01:57,340

care and raced her away to Cuba no no

1453

01:02:01,500 --> 01:02:00,070

alva door is it el salvador I'm sorry el

1454

01:02:03,690 --> 01:02:01,510

salvador where she is now undergoing

1455

01:02:06,480 --> 01:02:03,700

cancer treatment which consists of her

1456

01:02:08,460 --> 01:02:06,490

being wrapped up in with money its

1457

01:02:10,110 --> 01:02:08,470

red-clay actually recently so it's

1458

01:02:13,110 --> 01:02:10,120

probably got some more active ingredient

1459

01:02:16,560 --> 01:02:13,120

which month away mud and tea as well

1460

01:02:19,290 --> 01:02:16,570

Hamilton herbal tea quack TV look it up

1461

01:02:20,790 --> 01:02:19,300

on blip TV actually it's really worth

1462

01:02:22,950 --> 01:02:20,800

looking at that story because it was

1463

01:02:24,690 --> 01:02:22,960

very well done on behalf of channel 7

1464

01:02:28,320 --> 01:02:24,700

they were very critical of the parents

1465

01:02:33,150 --> 01:02:28,330

yes and it was it was very pious fun for

1466

01:02:35,460 --> 01:02:33,160

a while um and speaking of cancer Rachel

1467

01:02:39,600 --> 01:02:35,470

I think you've got a message there from

1468

01:02:42,330 --> 01:02:39,610

our old friend Meryl Dory from the

1469

01:02:44,040 --> 01:02:42,340

Australian vaccination network I've got

1470

01:02:46,350 --> 01:02:44,050

a message from Merrill for all our

1471

01:02:48,090 --> 01:02:46,360

lovely listeners out there now this is

1472

01:02:49,860 --> 01:02:48,100

some advice from Merrill we're not

1473

01:02:52,710 --> 01:02:49,870

really advice so much as what she would

1474

01:02:54,180 --> 01:02:52,720

do when someone rings you up and asked

1475

01:02:56,100 --> 01:02:54,190

you to dance Merrill Dory from the

1476

01:02:58,290 --> 01:02:56,110

Australian vaccination at work the

1477

01:03:00,780 --> 01:02:58,300

anti-vaccination crowd here on the

1478

01:03:03,240 --> 01:03:00,790

anti-vaccination lobby in Australia now

1479

01:03:04,920 --> 01:03:03,250

this is was her response to someone

1480

01:03:06,810 --> 01:03:04,930

calling up and asking her to donate

1481

01:03:10,490 --> 01:03:06,820

money for breast cancer awareness month

1482

01:03:13,170 --> 01:03:10,500

which it is in October in Australia and

1483

01:03:15,540 --> 01:03:13,180

she I quote this is a quote from her

1484

01:03:18,360 --> 01:03:15,550

which is her response to this phone call

1485

01:03:20,400 --> 01:03:18,370

I think they end up being sorry that

1486

01:03:23,700 --> 01:03:20,410

they ever called me because I don't just

1487

01:03:25,230 --> 01:03:23,710

say no I tell them why I say that I work

1488

01:03:27,540 --> 01:03:25,240

for a children's charity that is

1489

01:03:29,790 --> 01:03:27,550

involved in preventing cancer and that

1490

01:03:32,370 --> 01:03:29,800

in 50 years the Cancer Council and other

1491

01:03:34,800 --> 01:03:32,380

bodies have done nothing cancer is more

1492

01:03:36,960 --> 01:03:34,810

prevalent today than when it was when

1493

01:03:39,210 --> 01:03:36,970

they started to supposedly research and

1494

01:03:41,550 --> 01:03:39,220

if I'm going to make a donation I want

1495

01:03:43,950 --> 01:03:41,560

it to go to a good cause not just to

1496

01:03:45,960 --> 01:03:43,960

line the pockets of some researcher who

1497

01:03:48,210 --> 01:03:45,970

has no interest in actually seeing their

1498

01:03:50,850 --> 01:03:48,220

research come to fruition rather than

1499

01:03:53,160 --> 01:03:50,860

keeping themselves in a job they don't

1500

01:03:55,260 --> 01:03:53,170

know what to say but hopefully it makes

1501
01:03:56,080 --> 01:03:55,270
them think that maybe there is more to

1502
01:03:59,620 --> 01:03:56,090
this cancer

1503
01:04:01,750 --> 01:03:59,630
often they were told I don't often look

1504
01:04:03,940 --> 01:04:01,760
to say to religious loonies look at my

1505
01:04:05,380 --> 01:04:03,950
daughter's gonna say Richard uh-oh and

1506
01:04:08,500 --> 01:04:05,390
Merrill to come and stand at my front

1507
01:04:10,780 --> 01:04:08,510
door and and and turn all the the door

1508
01:04:13,390 --> 01:04:10,790
knockers away I'm sorry I've got to go

1509
01:04:18,400 --> 01:04:13,400
and line my pockets from the research

1510
01:04:20,740 --> 01:04:18,410
off you go we get on by my pocket she's

1511
01:04:24,280 --> 01:04:20,750
up she's off to see you betta back turn

1512
01:04:26,980 --> 01:04:24,290
your your money bags and go there you go

1513
01:04:31,060 --> 01:04:26,990

thank you Merrill for those words of

1514

01:04:32,950 --> 01:04:31,070

wisdom indeed and I think Meryl probably

1515

01:04:36,340 --> 01:04:32,960

would be also interested in the topic of

1516

01:04:39,250 --> 01:04:36,350

mercury levels how she would be she

1517

01:04:41,830 --> 01:04:39,260

would be a study you like that all this

1518

01:04:44,410 --> 01:04:41,840

week I like Joe a great big ways yes

1519

01:04:47,650 --> 01:04:44,420

good good Paul I want to quickly just

1520

01:04:49,810 --> 01:04:47,660

talk about an article that was came out

1521

01:04:52,350 --> 01:04:49,820

today from the journal neurotoxicology

1522

01:04:54,490 --> 01:04:52,360

it's from our friend andrew wakefield

1523

01:04:57,550 --> 01:04:54,500

andrew wakefield still gets published

1524

01:04:59,140 --> 01:04:57,560

yes I'm afraid so we alluded to this

1525

01:05:01,270 --> 01:04:59,150

last week but we were unable to get

1526

01:05:03,250 --> 01:05:01,280

access to the full article the

1527

01:05:06,610 --> 01:05:03,260

anti-vaxxers were sending out the

1528

01:05:10,630 --> 01:05:06,620

abstract across the intertubes with glee

1529

01:05:14,830 --> 01:05:10,640

last week because this article is a

1530

01:05:16,570 --> 01:05:14,840

study in macaques which shows a brand of

1531

01:05:21,250 --> 01:05:16,580

a type of monkey type of monkey monkey

1532

01:05:24,160 --> 01:05:21,260

yeah which involves injecting newborn

1533

01:05:28,020 --> 01:05:24,170

monkeys with the hepatitis B vaccine

1534

01:05:29,980 --> 01:05:28,030

that contains thimerosal and then doing

1535

01:05:33,250 --> 01:05:29,990

tests on them to see if they have

1536

01:05:36,190 --> 01:05:33,260

neurological disorders and the results

1537

01:05:37,900 --> 01:05:36,200

as you can probably expect our that the

1538

01:05:40,780 --> 01:05:37,910

ones that have received the hepatitis B

1539

01:05:44,200 --> 01:05:40,790

vaccine with our marisol have slowed

1540

01:05:45,510 --> 01:05:44,210

development and show less neurological

1541

01:05:48,640 --> 01:05:45,520

development than the ones that haven't

1542

01:05:50,590 --> 01:05:48,650

so I only printed this off just before I

1543

01:05:52,330 --> 01:05:50,600

came today so I need to read it again a

1544

01:05:53,770 --> 01:05:52,340

bit more thoroughly but a couple of

1545

01:05:57,010 --> 01:05:53,780

things that we noticed straight off the

1546

01:05:59,890 --> 01:05:57,020

bat Joe and myself was that the sample

1547

01:06:02,320 --> 01:05:59,900

size or the the number of monkeys

1548

01:06:03,700 --> 01:06:02,330

involved is very small where have we

1549

01:06:04,970 --> 01:06:03,710

seen a small sample size in and

1550

01:06:07,609 --> 01:06:04,980

Wakefield study

1551

01:06:11,000 --> 01:06:07,619

Joe would it be the 1998 Lancet study

1552

01:06:12,710 --> 01:06:11,010

cancel the MMR problems Jonah sounds

1553

01:06:15,830 --> 01:06:12,720

like the one that would have been all

1554

01:06:19,190 --> 01:06:15,840

eight kids was not 12 12 children sorry

1555

01:06:21,470 --> 01:06:19,200

um yeah in this one there are 13 monkeys

1556

01:06:25,849 --> 01:06:21,480

that are actually I think there's a

1557

01:06:29,180 --> 01:06:25,859

movie called a 13-month is 12 Bruce

1558

01:06:31,490 --> 01:06:29,190

Willis this is 13 let me just double

1559

01:06:33,770 --> 01:06:31,500

check site up messes up there are there

1560

01:06:36,290 --> 01:06:33,780

are 13 that received a vaccine there are

1561

01:06:38,359 --> 01:06:36,300

four that received just a saline

1562

01:06:40,490 --> 01:06:38,369

injection so a control injection and

1563

01:06:42,560 --> 01:06:40,500

then there were through our three that

1564

01:06:44,990 --> 01:06:42,570

had nothing at all but one of the things

1565

01:06:47,630 --> 01:06:45,000

that Joe noticed over dinner was that

1566

01:06:49,190 --> 01:06:47,640

there's no control group where that

1567

01:06:52,000 --> 01:06:49,200

received the vaccine without thimerosal

1568

01:06:55,359 --> 01:06:52,010

mmm yeah it was quite interesting them

1569

01:06:59,120 --> 01:06:55,369

despite the fact that they say that the

1570

01:07:01,220 --> 01:06:59,130

vaccine with the thimerosal can is still

1571

01:07:04,970 --> 01:07:01,230

used in the developing world they were

1572

01:07:07,760 --> 01:07:04,980

unable to procure any of the vaccine

1573

01:07:09,680 --> 01:07:07,770

made up by the companies that make the

1574

01:07:11,540 --> 01:07:09,690

vaccine that they were testing I didn't

1575

01:07:13,370 --> 01:07:11,550

say though they just didn't pretend they

1576

01:07:15,440 --> 01:07:13,380

didn't explain why I did that's right

1577

01:07:17,870 --> 01:07:15,450

didn't they aren't they didn't cure and

1578

01:07:20,180 --> 01:07:17,880

what they did was they obtained the Hep

1579

01:07:23,210 --> 01:07:20,190

B vaccine and then they added thimerosal

1580

01:07:24,980 --> 01:07:23,220

to the vaccine that's correct yeah and

1581

01:07:26,540 --> 01:07:24,990

that was what they actually used and I

1582

01:07:29,300 --> 01:07:26,550

found that a little bit strange yeah

1583

01:07:31,130 --> 01:07:29,310

they used ricambi vax HB which is

1584

01:07:34,220 --> 01:07:31,140

manufactured by Merck and then they

1585

01:07:37,040 --> 01:07:34,230

added the thimerosal at lower levels

1586

01:07:40,070 --> 01:07:37,050

than what you would find for human

1587

01:07:42,170 --> 01:07:40,080

infants because it's a weight / that's

1588

01:07:44,870 --> 01:07:42,180

right it's a a man of thimerosal per

1589

01:07:46,700 --> 01:07:44,880

body weight and they described in the

1590

01:07:47,990 --> 01:07:46,710

methods section a very long process of

1591

01:07:50,080 --> 01:07:48,000

how they made sure they had the right

1592

01:07:53,930 --> 01:07:50,090

amount of time aerosol by using iron

1593

01:07:55,390 --> 01:07:53,940

spray mass spectrometry etc but you have

1594

01:07:57,500 --> 01:07:55,400

an interesting point I don't know why

1595

01:08:00,440 --> 01:07:57,510

the other thing that just caught my

1596

01:08:02,330 --> 01:08:00,450

attention immediately was the conflict

1597

01:08:04,580 --> 01:08:02,340

of interest statement in this paper now

1598

01:08:10,490 --> 01:08:04,590

I review a lot of papers in my job

1599

01:08:12,380 --> 01:08:10,500

usually a couple a week sometimes and a

1600

01:08:14,120 --> 01:08:12,390

lot of scientific papers they ask you

1601
01:08:15,800 --> 01:08:14,130
for a conflict of interest yes which is

1602
01:08:17,640 --> 01:08:15,810
was that one of the major problems with

1603
01:08:19,829 --> 01:08:17,650
the first Wakefield paper that everyone

1604
01:08:22,169 --> 01:08:19,839
probably knows about by now so let me

1605
01:08:25,349 --> 01:08:22,179
just basically read this to you so it

1606
01:08:27,510 --> 01:08:25,359
says prior to 2005 andrew wakefield and

1607
01:08:30,660 --> 01:08:27,520
CS who's another one of the authors on

1608
01:08:32,849 --> 01:08:30,670
this paper actors paid experts in MMR

1609
01:08:35,640 --> 01:08:32,859
related litigation on behalf of the

1610
01:08:39,630 --> 01:08:35,650
plaintiff so basically they were giving

1611
01:08:43,349 --> 01:08:39,640
evidence against well for MMR causing

1612
01:08:45,539 --> 01:08:43,359
autism mmm right another author called

1613
01:08:49,490 --> 01:08:45,549

LH and she's the first author her name

1614

01:08:51,390 --> 01:08:49,500

is Laura hewitson has a child who is

1615

01:08:54,499 --> 01:08:51,400

petitioner in the national vaccine

1616

01:08:58,260 --> 01:08:54,509

injury compensation program good grief

1617

01:09:00,510 --> 01:08:58,270

now it states here for this reason Laura

1618

01:09:02,820 --> 01:09:00,520

was not involved in any data collection

1619

01:09:04,800 --> 01:09:02,830

or statistical analysis to preclude the

1620

01:09:08,189 --> 01:09:04,810

possibility of a perceived conflict of

1621

01:09:11,099 --> 01:09:08,199

interest now this is all fine but she's

1622

01:09:13,309 --> 01:09:11,109

the first author on this paper she's the

1623

01:09:16,380 --> 01:09:13,319

first author on this paper now

1624

01:09:18,120 --> 01:09:16,390

regardless of who collects the data it's

1625

01:09:21,059 --> 01:09:18,130

your role as the first author to

1626

01:09:23,579 --> 01:09:21,069

interpret the data and to write it into

1627

01:09:26,160 --> 01:09:23,589

a manner which you think is correct

1628

01:09:28,200 --> 01:09:26,170

based on what you said on on the day

1629

01:09:30,510 --> 01:09:28,210

yeah does anybody take this general

1630

01:09:31,890 --> 01:09:30,520

seriously well I think when we talked

1631

01:09:33,990 --> 01:09:31,900

about this journal last week because we

1632

01:09:37,649 --> 01:09:34,000

used in our impact factor studies when

1633

01:09:40,979 --> 01:09:37,659

we were longing you with journals it's

1634

01:09:43,110 --> 01:09:40,989

as I mentioned last week in respect to

1635

01:09:45,180 --> 01:09:43,120

the lancet it's around a to in terms of

1636

01:09:47,340 --> 01:09:45,190

impact factor whereas the lancet is

1637

01:09:49,919 --> 01:09:47,350

above 20 like it's you know quite

1638

01:09:51,990 --> 01:09:49,929

exponentially higher so the only

1639

01:09:53,820 --> 01:09:52,000

encouraging thing is that Andrew

1640

01:09:56,430 --> 01:09:53,830

Wakefield is now publishing in two

1641

01:09:59,160 --> 01:09:56,440

journals instead of 30s or whatever The

1642

01:10:00,630 --> 01:09:59,170

Lancet is I can't remember exactly but I

1643

01:10:02,220 --> 01:10:00,640

haven't had time to read this thoroughly

1644

01:10:05,310 --> 01:10:02,230

but that was straight off the bat I

1645

01:10:06,959 --> 01:10:05,320

thought or hang on a second you know so

1646

01:10:08,910 --> 01:10:06,969

I don't know who's responsible for

1647

01:10:11,040 --> 01:10:08,920

reviewing this paper but I'm going to be

1648

01:10:13,709 --> 01:10:11,050

keeping an eye on the letters to the

1649

01:10:17,120 --> 01:10:13,719

editor once this is published it makes

1650

01:10:19,169 --> 01:10:17,130

for quite a sort of taxing reading

1651
01:10:20,820 --> 01:10:19,179
dissecting it but I mean there are some

1652
01:10:23,750 --> 01:10:20,830
as racial addition there are some

1653
01:10:25,390 --> 01:10:23,760
glaring things that stand out

1654
01:10:28,069 --> 01:10:25,400
not least of which of course are

1655
01:10:29,629 --> 01:10:28,079
Wakefield's own scientific revelation

1656
01:10:32,089 --> 01:10:29,639
and as you and I discussed over dinner

1657
01:10:33,169 --> 01:10:32,099
the measurements here although they're

1658
01:10:34,220 --> 01:10:33,179
quite well established and more

1659
01:10:36,410 --> 01:10:34,230
published they are still quite

1660
01:10:38,959 --> 01:10:36,420
subjective in terms of measuring whether

1661
01:10:41,569 --> 01:10:38,969
the monkey is not developing

1662
01:10:45,379 --> 01:10:41,579
neurologically you know things like

1663
01:10:47,750 --> 01:10:45,389

sucking properly or remember some of the

1664

01:10:49,129 --> 01:10:47,760

other terms are smelting and routing

1665

01:10:51,950 --> 01:10:49,139

which is kind of like pushing for the

1666

01:10:53,270 --> 01:10:51,960

name or things like that I mean every

1667

01:10:55,669 --> 01:10:53,280

other wing is geo and we look I

1668

01:10:59,779 --> 01:10:55,679

absolutely make no claim of having any

1669

01:11:02,569 --> 01:10:59,789

expertise in child child development but

1670

01:11:05,450 --> 01:11:02,579

I'm my other question is you know I

1671

01:11:08,000 --> 01:11:05,460

think very clearly the the claims of

1672

01:11:11,270 --> 01:11:08,010

these people has always been the link

1673

01:11:14,240 --> 01:11:11,280

between autism and thimerosal yeah now I

1674

01:11:17,779 --> 01:11:14,250

don't entirely see how the specific

1675

01:11:21,819 --> 01:11:17,789

things that they are trying to link to a

1676

01:11:25,790 --> 01:11:21,829

Marisol here necessarily correlate with

1677

01:11:28,549 --> 01:11:25,800

oh it's a it's a yeah it's it's a

1678

01:11:30,740 --> 01:11:28,559

stretch Joe it's a stretch just really

1679

01:11:32,419 --> 01:11:30,750

yeah it's dragging it out look how I'll

1680

01:11:34,609 --> 01:11:32,429

try on some I'll try and go through this

1681

01:11:37,399 --> 01:11:34,619

in more detail in a later time and blog

1682

01:11:38,720 --> 01:11:37,409

it thoroughly but if people are

1683

01:11:40,790 --> 01:11:38,730

interested in getting a copy of it

1684

01:11:43,729 --> 01:11:40,800

because i don't think it's not available

1685

01:11:45,919 --> 01:11:43,739

free online i have access to it i'll

1686

01:11:47,600 --> 01:11:45,929

probably twitter the PDF and if anyone

1687

01:11:50,479 --> 01:11:47,610

else emails me at rachel its fifties

1688

01:11:52,069 --> 01:11:50,489

under me i can send your copy well Joe

1689

01:11:53,600 --> 01:11:52,079

let's wrap this up with another

1690

01:11:56,000 --> 01:11:53,610

important if you have about those

1691

01:11:58,129 --> 01:11:56,010

bracelets we keep seeing in pharmacies

1692

01:11:59,870 --> 01:11:58,139

those copper bracelets yes Richard I was

1693

01:12:01,879 --> 01:11:59,880

really pleased when I saw this article

1694

01:12:05,509 --> 01:12:01,889

today actually I haven't I haven't seen

1695

01:12:10,640 --> 01:12:05,519

the the paper itself but this was on BBC

1696

01:12:12,319 --> 01:12:10,650

News a trial was done by some

1697

01:12:15,830 --> 01:12:12,329

researchers from the University of York

1698

01:12:20,270 --> 01:12:15,840

looking at those copper bracelets and

1699

01:12:23,540 --> 01:12:20,280

magnetic wrist straps and a demagnetized

1700

01:12:27,020 --> 01:12:23,550

version which was there placebo and

1701

01:12:29,950 --> 01:12:27,030

there were forty-five patients at

1702

01:12:31,840 --> 01:12:29,960

comparing the the four different

1703

01:12:33,310 --> 01:12:31,850

treatments looking at the effect on

1704

01:12:38,860 --> 01:12:33,320

relieving pain in people with

1705

01:12:41,740 --> 01:12:38,870

osteoarthritis and the the study refund

1706

01:12:43,870 --> 01:12:41,750

there was no effect at all that they

1707

01:12:49,540 --> 01:12:43,880

were completely ineffective in and

1708

01:12:51,910 --> 01:12:49,550

treating no shopping so let's let's

1709

01:12:56,950 --> 01:12:51,920

useless in arthritis the headline

1710

01:12:59,229 --> 01:12:56,960

screams yes BBC News the URL is because

1711

01:13:00,760 --> 01:12:59,239

it's not a fact that talks about what

1712

01:13:02,709 --> 01:13:00,770

they what they specifically refer to is

1713

01:13:05,560 --> 01:13:02,719

the fact that these bracelets cost and

1714

01:13:08,860 --> 01:13:05,570

this is in in british pounds they cost

1715

01:13:13,510 --> 01:13:08,870

between 25 and 65 pounds the industry is

1716

01:13:15,520 --> 01:13:13,520

worth billions of dollars and they say

1717

01:13:17,590 --> 01:13:15,530

the researchers say that any perceived

1718

01:13:19,810 --> 01:13:17,600

benefit can pretty much be attributed to

1719

01:13:21,459 --> 01:13:19,820

the placebo effect and that the

1720

01:13:23,470 --> 01:13:21,469

marketing of these devices is offering

1721

01:13:26,020 --> 01:13:23,480

to is mostly to vulnerable elderly

1722

01:13:27,520 --> 01:13:26,030

people so to all the pharmacists out

1723

01:13:29,140 --> 01:13:27,530

there who are continuing to sell these

1724

01:13:30,490 --> 01:13:29,150

products I think this is probably a good

1725

01:13:32,860 --> 01:13:30,500

time to start looking at your

1726

01:13:34,959 --> 01:13:32,870

endorsement of this is a ax it's a good

1727

01:13:37,000 --> 01:13:34,969

product for you there's a good message

1728

01:13:38,500 --> 01:13:37,010

that we can send out to the pharmacist

1729

01:13:44,680 --> 01:13:38,510

out there who knowingly sell these

1730

01:13:45,940 --> 01:13:44,690

bracelets so sums it up nicely rich oh I

1731

01:13:48,940 --> 01:13:45,950

got the confused that's actually the

1732

01:13:50,620 --> 01:13:48,950

ancient word for reiki I wondered why

1733

01:13:56,650 --> 01:13:50,630

you were yelling out right as i speak

1734

01:13:59,620 --> 01:13:56,660

Reiki Richard you do that come on that

1735

01:14:01,630 --> 01:13:59,630

musical note on that musical note I'd

1736

01:14:02,979 --> 01:14:01,640

like to thank very much Joan been amoo

1737

01:14:04,750 --> 01:14:02,989

for joining us again tonight now

1738

01:14:07,810 --> 01:14:04,760

favorite club down the street with no

1739

01:14:09,700 --> 01:14:07,820

bus announcement oh you know what I

1740

01:14:12,130 --> 01:14:09,710

heard 10 when we were having dinner I

1741

01:14:14,140 --> 01:14:12,140

thought we've blown it we're not going

1742

01:14:17,170 --> 01:14:14,150

to get one no tune in next week yes sir

1743

01:14:19,209 --> 01:14:17,180

maybe so and dr. Rachel dumb-off as it

1744

01:14:20,890 --> 01:14:19,219

thank you so much thank you very much

1745

01:14:22,930 --> 01:14:20,900

for sure and thank your listeners for

1746

01:14:45,070 --> 01:14:22,940

listening and you'll have another thing

1747

01:14:47,110 --> 01:14:45,080

taking about hello I'm Tony Pittman the

1748

01:14:50,290 --> 01:14:47,120

presenter of the weekly radio show and

1749

01:14:53,080 --> 01:14:50,300

podcast reality check broadcast from

1750

01:14:55,060 --> 01:14:53,090

here in melbourne australia and if you

1751

01:14:57,100 --> 01:14:55,070

like listening to the skeptic zone maybe

1752

01:15:00,459 --> 01:14:57,110

you'd like to check out reality check

1753

01:15:03,910 --> 01:15:00,469

each week we bring you a roundup of LGBT

1754

01:15:07,479 --> 01:15:03,920

news that's news related to lesbian gay

1755

01:15:11,170 --> 01:15:07,489

bisexual and transgender issues plus a

1756

01:15:13,209 --> 01:15:11,180

movie review plus a serious skeptical

1757

01:15:17,170 --> 01:15:13,219

analysis of a topic related to

1758

01:15:18,670 --> 01:15:17,180

pseudoscience or the paranormal so if

1759

01:15:22,180 --> 01:15:18,680

that sounds like it could be right up

1760

01:15:25,900 --> 01:15:22,190

your alley visit our website at reality

1761

01:15:28,420 --> 01:15:25,910

check online dot net there you can

1762

01:15:31,260 --> 01:15:28,430

listen online download episodes or

1763

01:15:46,290 --> 01:15:31,270

subscribe that's reality check online

1764

01:15:50,640 --> 01:15:49,020

Richard another fabulous shows and that

1765

01:15:53,100 --> 01:15:50,650

interesting one that interview of John

1766

01:15:55,770 --> 01:15:53,110

smile isn't it like a way my arms around

1767

01:15:58,859 --> 01:15:55,780

them and on a podcast can it's amazing

1768

01:16:00,450 --> 01:15:58,869

yes but that's for our help you is a

1769

01:16:02,669 --> 01:16:00,460

video viewers yeah we're doing a little

1770

01:16:04,620 --> 01:16:02,679

video experiment oh yeah it's very

1771

01:16:07,169 --> 01:16:04,630

exciting isn't it yes very sorry hello

1772

01:16:09,060 --> 01:16:07,179

camera hello camera great show yeah well

1773

01:16:10,680 --> 01:16:09,070

i know i really i really enjoyed that

1774

01:16:13,560 --> 01:16:10,690

show I'm it was always good to be part

1775

01:16:15,660 --> 01:16:13,570

of the think tank yes I know but not

1776

01:16:17,430 --> 01:16:15,670

yeah I keep missing it as well you can

1777

01:16:19,470 --> 01:16:17,440

always come yeah I know invitation as

1778

01:16:20,850 --> 01:16:19,480

always there well next week we're going

1779

01:16:23,010 --> 01:16:20,860

to have an interesting show we've got a

1780

01:16:25,260 --> 01:16:23,020

another panel from our adventures and

1781

01:16:26,939 --> 01:16:25,270

Dragon Con oh yeah and this is one that

1782

01:16:28,890 --> 01:16:26,949

Kylie out reporter Carly Sturgis was

1783

01:16:31,339 --> 01:16:28,900

taking part of yeah and it's all about

1784

01:16:33,569 --> 01:16:31,349

Darwin's Bulldogs creationism

1785

01:16:36,030 --> 01:16:33,579

intelligent design and some people like

1786

01:16:37,740 --> 01:16:36,040

Jeanne Scott Eugenie Scott all weather

1787

01:16:39,479 --> 01:16:37,750

agency is that worth looking forward to

1788

01:16:40,680 --> 01:16:39,489

its hotting up in that area too is that

1789

01:16:42,629 --> 01:16:40,690

at the moment because there's a lot of

1790

01:16:44,100 --> 01:16:42,639

there's been a lot of new sort of

1791

01:16:46,530 --> 01:16:44,110

scientific things going on there trying

1792

01:16:49,470 --> 01:16:46,540

to discover more missing links and means

1793

01:16:51,089 --> 01:16:49,480

more about how life's actually evolved

1794

01:16:52,830 --> 01:16:51,099

isn't it strange that every major

1795

01:16:54,770 --> 01:16:52,840

discovery they're making now in the past

1796

01:16:57,660 --> 01:16:54,780

year I think there's been several all

1797

01:17:00,089 --> 01:16:57,670

support the theory of evolution isn't

1798

01:17:03,000 --> 01:17:00,099

that just I can't create I'm dumbfounded

1799

01:17:05,430 --> 01:17:03,010

I'm done for how could that ever happen

1800

01:17:06,959 --> 01:17:05,440

I just don't understand seven no I just

1801

01:17:08,640 --> 01:17:06,969

don't understand I'll have to keep

1802

01:17:10,439 --> 01:17:08,650

listening to the skeptic zone to learn

1803

01:17:12,689 --> 01:17:10,449

more especially next week yes absolutely

1804

01:17:14,160 --> 01:17:12,699

and i believe that i may be doing

1805

01:17:17,490 --> 01:17:14,170

something coming up in the next episode

1806

01:17:19,740 --> 01:17:17,500

or two about about strange audio stuff

1807

01:17:22,319 --> 01:17:19,750

like you're hearing things backwards and

1808

01:17:24,149 --> 01:17:22,329

hearing sounds yeah they might are just

1809

01:17:25,740 --> 01:17:24,159

a little bit of teaser so it could be

1810

01:17:27,720 --> 01:17:25,750

something coming up about that Boulder

1811

01:17:29,069 --> 01:17:27,730

yeah and they may even be something on

1812

01:17:33,299 --> 01:17:29,079

this particular podcasters played

1813

01:17:35,970 --> 01:17:33,309

backwards ah you never know no but no

1814

01:17:39,370 --> 01:17:35,980

honestly don't waste your time we'll see

1815

01:17:40,830 --> 01:17:39,380

you next week Richard bye-bye

1816

01:17:46,800 --> 01:17:40,840

you

1817

01:17:50,609 --> 01:17:46,810

zone visit our website at [www scripting](http://www.scripting)

1818

01:17:53,280 --> 01:17:50,619

zone TV for comments contacts and extra

1819

01:17:58,240 --> 01:17:53,290

video reports