



FAT

The Skeptic Zone
Show 143
15 July 2011

1
00:00:03,110 --> 00:00:01,990
an interesting thing happened to me the

2
00:00:06,789 --> 00:00:03,120
other day

3
00:00:09,190 --> 00:00:06,799
after a session in the tv studio

4
00:00:10,950 --> 00:00:09,200
when i was uh having a quick word to the

5
00:00:12,629 --> 00:00:10,960
audience as they were making their way

6
00:00:14,310 --> 00:00:12,639
out

7
00:00:16,950 --> 00:00:14,320
thanking them for coming along to see

8
00:00:18,230 --> 00:00:16,960
the the show being made

9
00:00:20,150 --> 00:00:18,240
and

10
00:00:21,349 --> 00:00:20,160
somebody was wondering why i was so

11
00:00:23,429 --> 00:00:21,359
skeptical

12
00:00:25,990 --> 00:00:23,439
especially since they've gone to see

13
00:00:28,870 --> 00:00:26,000

psychics live psychics live on stage at

14

00:00:31,029 --> 00:00:28,880

various places and have been convinced

15

00:00:33,270 --> 00:00:31,039

i thought for a moment and i put this to

16

00:00:35,750 --> 00:00:33,280

them which uh

17

00:00:38,869 --> 00:00:35,760

it seemed to seem to work it seemed to

18

00:00:41,190 --> 00:00:38,879

be a good uh analogy a good argument a

19

00:00:43,190 --> 00:00:41,200

good case to put forward

20

00:00:45,590 --> 00:00:43,200

so i'll tell you now

21

00:00:47,110 --> 00:00:45,600

in case you think it's a good case

22

00:00:51,190 --> 00:00:47,120

a good thing to say

23

00:00:54,470 --> 00:00:51,200

and possibly you could use this yourself

24

00:00:56,869 --> 00:00:54,480

so imagine i said to this guy

25

00:00:59,110 --> 00:00:56,879

imagine you went to see a world famous

26
00:01:00,310 --> 00:00:59,120
magician on stage instead of a psychic

27
00:01:02,069 --> 00:01:00,320
doing a

28
00:01:03,990 --> 00:01:02,079
reading in public

29
00:01:06,469 --> 00:01:04,000
and the magician made people float

30
00:01:07,750 --> 00:01:06,479
through the air rabbits appeared out of

31
00:01:09,670 --> 00:01:07,760
hats

32
00:01:10,789 --> 00:01:09,680
the chosen card that you picked from a

33
00:01:12,950 --> 00:01:10,799
deck and

34
00:01:14,070 --> 00:01:12,960
hid under your seat was

35
00:01:16,149 --> 00:01:14,080
magically

36
00:01:17,910 --> 00:01:16,159
transported to the stage all this sort

37
00:01:18,950 --> 00:01:17,920
of things

38
00:01:22,390 --> 00:01:18,960

typical

39

00:01:24,550 --> 00:01:22,400

classical conjuring tricks

40

00:01:25,749 --> 00:01:24,560

i said if you're just somebody off the

41

00:01:27,190 --> 00:01:25,759

street

42

00:01:29,830 --> 00:01:27,200

you wouldn't have a clue how those

43

00:01:32,789 --> 00:01:29,840

tricks worked you really wouldn't they

44

00:01:36,069 --> 00:01:32,799

would look like real magic and you could

45

00:01:37,749 --> 00:01:36,079

spend the rest of your life wondering

46

00:01:40,630 --> 00:01:37,759

how these tricks worked and you wouldn't

47

00:01:42,630 --> 00:01:40,640

figure it out

48

00:01:44,310 --> 00:01:42,640

does that mean that

49

00:01:45,749 --> 00:01:44,320

the magicians are

50

00:01:47,510 --> 00:01:45,759

really

51

00:01:49,749 --> 00:01:47,520

doing magic

52

00:01:51,350 --> 00:01:49,759

as in are they really bending or

53

00:01:54,710 --> 00:01:51,360

breaking the laws of physics do the

54

00:01:55,749 --> 00:01:54,720

rabbits really appear from nowhere or i

55

00:01:59,190 --> 00:01:55,759

said

56

00:02:01,030 --> 00:01:59,200

has the magician studied and practiced

57

00:02:03,510 --> 00:02:01,040

for years

58

00:02:05,590 --> 00:02:03,520

bought books or dvds

59

00:02:07,429 --> 00:02:05,600

gone to magic clubs learned from other

60

00:02:09,669 --> 00:02:07,439

magicians

61

00:02:10,710 --> 00:02:09,679

skills and techniques designed to fool

62

00:02:12,550 --> 00:02:10,720

you

63

00:02:14,550 --> 00:02:12,560

and we both know full well that the

64

00:02:17,030 --> 00:02:14,560

rabbit really doesn't appear out of

65

00:02:19,510 --> 00:02:17,040

nowhere that it's very cleverly hidden

66

00:02:21,670 --> 00:02:19,520

somewhere until it appears

67

00:02:24,550 --> 00:02:21,680

this guy said yes yes that's that's

68

00:02:26,949 --> 00:02:24,560

absolutely right of course

69

00:02:29,510 --> 00:02:26,959

and i said but

70

00:02:31,190 --> 00:02:29,520

then tell me how do the tricks work

71

00:02:33,750 --> 00:02:31,200

how do how does the magician make all

72

00:02:37,910 --> 00:02:33,760

these things happen

73

00:02:43,430 --> 00:02:41,270

imagine you're another magician

74

00:02:45,430 --> 00:02:43,440

in the same club one of the the group of

75

00:02:47,670 --> 00:02:45,440

magicians and you go along to see

76

00:02:49,670 --> 00:02:47,680

exactly the same act

77

00:02:50,630 --> 00:02:49,680

but you know you know how the tricks

78

00:02:52,550 --> 00:02:50,640

work

79

00:02:55,190 --> 00:02:52,560

you know that

80

00:02:56,630 --> 00:02:55,200

this moment in the performance

81

00:02:58,390 --> 00:02:56,640

while the magician is doing one thing

82

00:03:00,790 --> 00:02:58,400

he's really doing another

83

00:03:03,270 --> 00:03:00,800

you know where the rabbit may be

84

00:03:06,229 --> 00:03:03,280

and you know how the card gets from the

85

00:03:09,430 --> 00:03:06,239

seat to the stage and so on

86

00:03:11,350 --> 00:03:09,440

i said uh then you'd appreciate

87

00:03:13,110 --> 00:03:11,360

or you'd understand the performance from

88

00:03:14,790 --> 00:03:13,120

a completely different level

89

00:03:16,390 --> 00:03:14,800

you'd be looking out for when the tricks

90

00:03:19,110 --> 00:03:16,400

come along

91

00:03:21,990 --> 00:03:19,120

he said yes that's right

92

00:03:23,910 --> 00:03:22,000

and i said well for me

93

00:03:26,550 --> 00:03:23,920

seeing a psychic doing a psychic reading

94

00:03:29,030 --> 00:03:26,560

live on stage to an audience

95

00:03:33,589 --> 00:03:29,040

it's sort of like that

96

00:03:35,430 --> 00:03:33,599

learned the techniques i've learned this

97

00:03:37,670 --> 00:03:35,440

the tricks if you will

98

00:03:39,110 --> 00:03:37,680

i know what to look out for and i know

99

00:03:41,190 --> 00:03:39,120

what's happening

100

00:03:43,350 --> 00:03:41,200

when it's happening

101
00:03:45,190 --> 00:03:43,360
it's not your fault you don't know these

102
00:03:48,550 --> 00:03:45,200
tricks why the hell would you this is a

103
00:03:51,430 --> 00:03:48,560
really weird skill set to have

104
00:03:54,070 --> 00:03:51,440
so i said to him i'm not convinced

105
00:03:57,509 --> 00:03:54,080
by these things because when i see them

106
00:03:58,830 --> 00:03:57,519
i can see what's really going on

107
00:04:02,149 --> 00:03:58,840
and you know

108
00:04:03,110 --> 00:04:02,159
what to make a believer really stop and

109
00:04:04,869 --> 00:04:03,120
think

110
00:04:08,550 --> 00:04:04,879
using that analogy

111
00:04:12,630 --> 00:04:10,309
and uh

112
00:04:15,750 --> 00:04:12,640
it seemed to work very well

113
00:04:17,749 --> 00:04:15,760

on this occasion use it if you want to

114

00:04:23,430 --> 00:04:17,759

it worked for me

115

00:04:23,440 --> 00:04:31,189

starts now

116

00:04:48,710 --> 00:04:33,830

welcome to the skeptic zone the podcast

117

00:04:54,070 --> 00:04:51,909

it's the 15th of july 2011 the day i fly

118

00:04:55,749 --> 00:04:54,080

out to tam las vegas

119

00:04:58,469 --> 00:04:55,759

very excited about that but i'm glad

120

00:05:00,310 --> 00:04:58,479

i've got the show up online before i

121

00:05:02,870 --> 00:05:00,320

leave the house

122

00:05:05,189 --> 00:05:02,880

coming up on this week's episode maynard

123

00:05:07,350 --> 00:05:05,199

spooky action

124

00:05:09,749 --> 00:05:07,360

this is an interesting one maynard talks

125

00:05:12,550 --> 00:05:09,759

to nicholas de patrizio from the

126

00:05:14,710 --> 00:05:12,560

university of california at irvine

127

00:05:18,310 --> 00:05:14,720

about a paper he's co-authored about the

128

00:05:22,390 --> 00:05:18,320

body's natural marijuana-like chemicals

129

00:05:24,070 --> 00:05:22,400

that make fatty foods hard to resist

130

00:05:25,590 --> 00:05:24,080

hmm

131

00:05:27,189 --> 00:05:25,600

that's why fatty foods are hard

132

00:05:29,110 --> 00:05:27,199

resistant

133

00:05:31,510 --> 00:05:29,120

really interesting research that has

134

00:05:33,510 --> 00:05:31,520

been carried on i wonder if they had to

135

00:05:36,070 --> 00:05:33,520

eat a lot of fatty foods to do this

136

00:05:37,350 --> 00:05:36,080

research i wonder if they gained like 20

137

00:05:39,350 --> 00:05:37,360

kilos each

138

00:05:42,550 --> 00:05:39,360

that's sort of research that uh i think

139

00:05:44,390 --> 00:05:42,560

we all can carry out from time to time

140

00:05:46,550 --> 00:05:44,400

very uh very interesting stuff that's

141

00:05:48,790 --> 00:05:46,560

coming up at the top of the show and

142

00:05:50,710 --> 00:05:48,800

after that we've got an interesting clip

143

00:05:52,310 --> 00:05:50,720

20 years ago

144

00:05:54,710 --> 00:05:52,320

on australian television there was a

145

00:05:56,870 --> 00:05:54,720

show called couchman which was a sort of

146

00:05:58,629 --> 00:05:56,880

like a donahue type chat sort of

147

00:06:01,350 --> 00:05:58,639

audience show

148

00:06:03,749 --> 00:06:01,360

and uh one day their topic for

149

00:06:06,469 --> 00:06:03,759

discussion was astrology

150

00:06:08,150 --> 00:06:06,479

it's so interesting i was uh looking

151
00:06:11,189 --> 00:06:08,160
through my archives the other day and i

152
00:06:13,350 --> 00:06:11,199
found this little clip from 20 years ago

153
00:06:15,909 --> 00:06:13,360
hear what the astrologers have to say to

154
00:06:17,749 --> 00:06:15,919
defend astrology and hear the skeptics

155
00:06:19,590 --> 00:06:17,759
chiming in as well skeptics in the

156
00:06:20,790 --> 00:06:19,600
audience

157
00:06:22,950 --> 00:06:20,800
and

158
00:06:25,270 --> 00:06:22,960
it's i love it when would give these

159
00:06:27,670 --> 00:06:25,280
people enough rope so to speak let them

160
00:06:30,469 --> 00:06:27,680
go let them try to explain

161
00:06:32,710 --> 00:06:30,479
their world view to us all coming up

162
00:06:34,469 --> 00:06:32,720
yeah about the middle of the show

163
00:06:37,590 --> 00:06:34,479

then to round off the show

164

00:06:39,670 --> 00:06:37,600

maynard's back again with me in tow this

165

00:06:41,270 --> 00:06:39,680

time as we both go to the supernova

166

00:06:42,790 --> 00:06:41,280

science fiction and fantasy convention

167

00:06:45,510 --> 00:06:42,800

here in sydney

168

00:06:47,749 --> 00:06:45,520

on the lookout for skeptics are there

169

00:06:49,350 --> 00:06:47,759

any skeptics wandering around these

170

00:06:50,469 --> 00:06:49,360

conventions well the answer is of course

171

00:06:51,510 --> 00:06:50,479

yes otherwise we wouldn't have the

172

00:06:54,390 --> 00:06:51,520

segment

173

00:06:55,670 --> 00:06:54,400

but it was a lot of fun as always that's

174

00:06:57,830 --> 00:06:55,680

always a lot of fun running around with

175

00:06:59,830 --> 00:06:57,840

maynard you have no idea

176

00:07:02,230 --> 00:06:59,840

the things that guy gets up to

177

00:07:04,230 --> 00:07:02,240

i could only just barely keep up but we

178

00:07:06,629 --> 00:07:04,240

did run into some skeptics so that's

179

00:07:09,430 --> 00:07:06,639

coming up right at the end of the show

180

00:07:10,550 --> 00:07:09,440

but for now i'm going to run downstairs

181

00:07:11,909 --> 00:07:10,560

and

182

00:07:13,990 --> 00:07:11,919

you know what

183

00:07:15,029 --> 00:07:14,000

i drank all the vodka

184

00:07:17,430 --> 00:07:15,039

the

185

00:07:20,230 --> 00:07:17,440

12 year old scotch is gone

186

00:07:23,430 --> 00:07:20,240

coffee ran out ah

187

00:07:25,830 --> 00:07:23,440

tap water oh yes

188

00:07:27,430 --> 00:07:25,840

i'm going to enjoy some tap water

189

00:07:44,070 --> 00:07:27,440

and i'll let you enjoy

190

00:07:52,390 --> 00:07:48,230

here's maynard's spooky action

191

00:07:56,070 --> 00:07:54,150

hey people at home are you feeling a bit

192

00:07:58,390 --> 00:07:56,080

hungry well we've got someone who might

193

00:08:00,230 --> 00:07:58,400

know why you're feeling hungry and why

194

00:08:03,110 --> 00:08:00,240

you really like that fatty food on the

195

00:08:04,869 --> 00:08:03,120

phone i've got nicolas de patricio phd

196

00:08:06,790 --> 00:08:04,879

post doctorate fellow department of

197

00:08:08,629 --> 00:08:06,800

pharmacology my favorite always my

198

00:08:11,029 --> 00:08:08,639

favorite department school of medicine

199

00:08:12,950 --> 00:08:11,039

university of california irvine is that

200

00:08:14,469 --> 00:08:12,960

have i got your title correct nicolas

201
00:08:16,950 --> 00:08:14,479
you've got it right you've been involved

202
00:08:18,869 --> 00:08:16,960
in a study that might open the door to

203
00:08:21,029 --> 00:08:18,879
finding out why we love our fatty food

204
00:08:22,869 --> 00:08:21,039
we all know we do what is your study

205
00:08:26,070 --> 00:08:22,879
discovered what we've discovered is that

206
00:08:28,390 --> 00:08:26,080
when fats touch the tongue fat specific

207
00:08:30,230 --> 00:08:28,400
not carbohydrates and not protein when

208
00:08:32,870 --> 00:08:30,240
the fats touch the tongue it elicits

209
00:08:34,949 --> 00:08:32,880
this response and releases these

210
00:08:37,350 --> 00:08:34,959
molecules called the endocannabinoids

211
00:08:39,829 --> 00:08:37,360
now the endocannabinoids are our natural

212
00:08:41,269 --> 00:08:39,839
marijuana-like chemicals so of course

213
00:08:42,790 --> 00:08:41,279

the receptors aren't there to get high

214

00:08:44,790 --> 00:08:42,800

from they're there to mediate some

215

00:08:46,870 --> 00:08:44,800

normal physiological function when the

216

00:08:49,990 --> 00:08:46,880

fat touches the tongue it releases these

217

00:08:52,550 --> 00:08:50,000

natural cannabinoids from the gi tract

218

00:08:55,910 --> 00:08:52,560

that bind the cannabinoid receptors in

219

00:08:58,230 --> 00:08:55,920

the small intestine and actually enhance

220

00:09:00,470 --> 00:08:58,240

your food intake so it promotes a

221

00:09:02,790 --> 00:09:00,480

positive feedback loop which will push

222

00:09:04,630 --> 00:09:02,800

you to consume more foods it's going to

223

00:09:06,470 --> 00:09:04,640

receptors in the stomach i would thought

224

00:09:08,389 --> 00:09:06,480

it would go to some in the brain and

225

00:09:09,829 --> 00:09:08,399

fire it off there well we're not saying

226

00:09:12,389 --> 00:09:09,839

that the brain

227

00:09:14,790 --> 00:09:12,399

does not serve a component in reward

228

00:09:17,829 --> 00:09:14,800

evaluation but what we've identified is

229

00:09:20,470 --> 00:09:17,839

this signal in the gut is critical for

230

00:09:23,110 --> 00:09:20,480

maintaining fat intake what we do is if

231

00:09:26,230 --> 00:09:23,120

we block that signal in a rodent model

232

00:09:28,550 --> 00:09:26,240

so pharmacologically going in bathing

233

00:09:30,310 --> 00:09:28,560

the intestine with an antagonist which

234

00:09:33,269 --> 00:09:30,320

is a fancy term for these little

235

00:09:35,590 --> 00:09:33,279

molecules that clog receptors then when

236

00:09:37,509 --> 00:09:35,600

we give the rat the fat to eat as we

237

00:09:39,509 --> 00:09:37,519

discovered already the endocannabinoids

238

00:09:41,430 --> 00:09:39,519

are being produced in the gut however

239

00:09:43,190 --> 00:09:41,440

they have nowhere to bind because the

240

00:09:44,790 --> 00:09:43,200

receptors are blocked and sure enough

241

00:09:46,870 --> 00:09:44,800

what happens as soon as you do that the

242

00:09:49,350 --> 00:09:46,880

animals stop eating the fat that's how

243

00:09:51,590 --> 00:09:49,360

we were able to identify physiologically

244

00:09:53,190 --> 00:09:51,600

that these these chemicals are critical

245

00:09:55,990 --> 00:09:53,200

because if you block their actions if

246

00:09:58,230 --> 00:09:56,000

you completely block food intake when

247

00:09:59,910 --> 00:09:58,240

will you be able to do research to on

248

00:10:01,990 --> 00:09:59,920

humans we're now providing the

249

00:10:04,470 --> 00:10:02,000

foundation you know to test to test in

250

00:10:06,150 --> 00:10:04,480

humans we're focusing on rodent models

251
00:10:08,230 --> 00:10:06,160
now and we're trying to now you know

252
00:10:10,230 --> 00:10:08,240
really nail down the foundation nail

253
00:10:12,310 --> 00:10:10,240
down the biochemical processes that are

254
00:10:14,069 --> 00:10:12,320
involved in that in order to do these

255
00:10:17,190 --> 00:10:14,079
sort of tests you have to use a rodent

256
00:10:19,110 --> 00:10:17,200
bottle and then the next step would be

257
00:10:20,949 --> 00:10:19,120
would be testing in humans what kind of

258
00:10:22,949 --> 00:10:20,959
sample size would you consider one to be

259
00:10:24,630 --> 00:10:22,959
significant for this study i'm not sure

260
00:10:26,949 --> 00:10:24,640
we haven't sat down and designed the

261
00:10:28,389 --> 00:10:26,959
experiment yet so it's a long process it

262
00:10:30,150 --> 00:10:28,399
takes you know a lot of time we need to

263
00:10:32,630 --> 00:10:30,160

make sure that everything is correct

264

00:10:34,710 --> 00:10:32,640

that's not my focus right now my focus

265

00:10:37,110 --> 00:10:34,720

is on making the discovery kind of

266

00:10:39,509 --> 00:10:37,120

creating that knowledge and then from

267

00:10:41,430 --> 00:10:39,519

there we go to the therapeutics which

268

00:10:43,910 --> 00:10:41,440

would then be tested of course in humans

269

00:10:46,310 --> 00:10:43,920

um we're not there yet now nicholas does

270

00:10:48,550 --> 00:10:46,320

this change existing knowledge about why

271

00:10:51,030 --> 00:10:48,560

we like fatty foods have you overturned

272

00:10:52,550 --> 00:10:51,040

a paradigm and people go wow you guys

273

00:10:54,710 --> 00:10:52,560

you've changed everything we thought

274

00:10:57,509 --> 00:10:54,720

about eating you know cannabinoids have

275

00:10:59,509 --> 00:10:57,519

been known for maybe a decade or so to

276

00:11:00,949 --> 00:10:59,519

really be you know modulating food

277

00:11:02,710 --> 00:11:00,959

intake it's been known for longer than

278

00:11:04,870 --> 00:11:02,720

that of course thousands of years people

279

00:11:07,430 --> 00:11:04,880

have talked about cannabis as increasing

280

00:11:10,230 --> 00:11:07,440

food intake what is new about this is

281

00:11:12,470 --> 00:11:10,240

that we've identified a critical area

282

00:11:13,750 --> 00:11:12,480

outside of the brain as you mentioned

283

00:11:15,030 --> 00:11:13,760

earlier

284

00:11:17,030 --> 00:11:15,040

previous work has shown that

285

00:11:19,829 --> 00:11:17,040

endocannabinoid activity within the

286

00:11:21,829 --> 00:11:19,839

brain in particular areas of reward

287

00:11:22,790 --> 00:11:21,839

centers and though cannabinoids there

288

00:11:24,949 --> 00:11:22,800

increase

289

00:11:27,350 --> 00:11:24,959

food intake the endocannabinoids are

290

00:11:29,269 --> 00:11:27,360

known to modulate taste properties this

291

00:11:31,430 --> 00:11:29,279

is the first series of studies that

292

00:11:33,350 --> 00:11:31,440

actually show a specific organ in the

293

00:11:35,509 --> 00:11:33,360

periphery that can be a potential

294

00:11:36,949 --> 00:11:35,519

therapeutic target for actually treating

295

00:11:38,630 --> 00:11:36,959

treating obesity which of course is

296

00:11:40,949 --> 00:11:38,640

going to lead to cardiovascular disease

297

00:11:42,710 --> 00:11:40,959

and diabetes yes i imagined have people

298

00:11:44,790 --> 00:11:42,720

like fizer knocking on your door pretty

299

00:11:46,790 --> 00:11:44,800

fast to uh manufacture something once

300

00:11:48,630 --> 00:11:46,800

this got to once you definitely had the

301
00:11:50,710 --> 00:11:48,640
proof there in humans how many years

302
00:11:53,269 --> 00:11:50,720
away do you think the proof it might be

303
00:11:54,790 --> 00:11:53,279
the process takes a while from bench to

304
00:11:56,630 --> 00:11:54,800
bedside i mean

305
00:11:58,310 --> 00:11:56,640
it's pure speculation usually it can

306
00:12:00,069 --> 00:11:58,320
take between seven and ten years but

307
00:12:02,790 --> 00:12:00,079
maybe five to ten years if it's on a

308
00:12:04,470 --> 00:12:02,800
faster track this has already been tried

309
00:12:06,790 --> 00:12:04,480
before so a lot of people have heard of

310
00:12:09,670 --> 00:12:06,800
acomplia which was which was approved in

311
00:12:11,430 --> 00:12:09,680
europe for treating for treating obesity

312
00:12:13,750 --> 00:12:11,440
and that's exactly what that molecule

313
00:12:15,750 --> 00:12:13,760

was a cb1 cannabinoid receptor

314

00:12:17,990 --> 00:12:15,760

antagonist so it blocked the body's

315

00:12:20,470 --> 00:12:18,000

natural endocannabinoids and in america

316

00:12:22,150 --> 00:12:20,480

it was up to stage three i believe

317

00:12:24,069 --> 00:12:22,160

clinical trials it was almost ready to

318

00:12:25,829 --> 00:12:24,079

go on the market and what unfortunately

319

00:12:26,870 --> 00:12:25,839

happened with this molecule

320

00:12:29,590 --> 00:12:26,880

was that

321

00:12:31,190 --> 00:12:29,600

in a larger population so in europe when

322

00:12:32,949 --> 00:12:31,200

they were actually prescribing this out

323

00:12:35,829 --> 00:12:32,959

into into the general population you

324

00:12:38,550 --> 00:12:35,839

would see increased risks for

325

00:12:40,710 --> 00:12:38,560

mood changes possible depression so the

326

00:12:43,430 --> 00:12:40,720

idea being if you may be predisposed to

327

00:12:46,389 --> 00:12:43,440

a depression or even suicidal ideations

328

00:12:48,870 --> 00:12:46,399

you may this may push you over the edge

329

00:12:50,470 --> 00:12:48,880

so messing with mood we also know that

330

00:12:52,629 --> 00:12:50,480

endocannabinoids don't only regulate

331

00:12:55,110 --> 00:12:52,639

food intake they regulate mood and how

332

00:12:57,110 --> 00:12:55,120

they regulate mood is within the brain

333

00:12:59,430 --> 00:12:57,120

that's why this new series of studies

334

00:13:01,750 --> 00:12:59,440

are very important because you can now

335

00:13:03,750 --> 00:13:01,760

design molecules that block endocrine

336

00:13:05,990 --> 00:13:03,760

block the cannabinoid receptors but they

337

00:13:08,230 --> 00:13:06,000

don't need to cross into the brain we're

338

00:13:10,310 --> 00:13:08,240

able to block that without the drugs

339

00:13:12,310 --> 00:13:10,320

crossing into the brain does this mean

340

00:13:14,150 --> 00:13:12,320

you've also nicholas got an even

341

00:13:17,030 --> 00:13:14,160

stronger connection now between the

342

00:13:19,190 --> 00:13:17,040

bucket bong and the munchies

343

00:13:22,470 --> 00:13:19,200

i'm not sure what the first term um you

344

00:13:25,269 --> 00:13:22,480

you said um refers to but the munchies

345

00:13:27,430 --> 00:13:25,279

absolutely i believe that um this is one

346

00:13:28,870 --> 00:13:27,440

of the targets of cannabis like i'm not

347

00:13:30,629 --> 00:13:28,880

saying it's the only target remember

348

00:13:32,710 --> 00:13:30,639

these receptors are all throughout the

349

00:13:34,629 --> 00:13:32,720

body someone ingests cannabis it gives

350

00:13:36,389 --> 00:13:34,639

this munchy effect kind of pushes you to

351
00:13:38,150 --> 00:13:36,399
eat these foods maybe make them taste a

352
00:13:39,990 --> 00:13:38,160
little bit better of course they're

353
00:13:42,310 --> 00:13:40,000
binding the system in the gut but

354
00:13:43,910 --> 00:13:42,320
remember the cycloactive ingredient thc

355
00:13:46,470 --> 00:13:43,920
and cannabis also crosses the

356
00:13:48,389 --> 00:13:46,480
blood-brain barrier so they also block

357
00:13:50,389 --> 00:13:48,399
receptors within the brain

358
00:13:52,710 --> 00:13:50,399
so cannabis is likely not only working

359
00:13:54,230 --> 00:13:52,720
on this gut system in the gut to promote

360
00:13:56,470 --> 00:13:54,240
this positive feedback loop but it's

361
00:13:57,670 --> 00:13:56,480
also acting on central circuits as well

362
00:14:00,150 --> 00:13:57,680
we're talking with a nicholas de

363
00:14:02,550 --> 00:14:00,160

patrizio phd postdoc fellow at the

364

00:14:04,949 --> 00:14:02,560

department of pharmacology now nicholas

365

00:14:06,389 --> 00:14:04,959

what other areas of science would you

366

00:14:07,430 --> 00:14:06,399

like to be someone doing a bit of work

367

00:14:09,509 --> 00:14:07,440

in at the moment because you're

368

00:14:11,269 --> 00:14:09,519

obviously in this dietary area you're

369

00:14:12,949 --> 00:14:11,279

very obsessed with that is there sort of

370

00:14:14,870 --> 00:14:12,959

a related discipline you'd like to see

371

00:14:16,550 --> 00:14:14,880

someone do work in that could you know

372

00:14:18,550 --> 00:14:16,560

complement what you're doing well i'm

373

00:14:20,870 --> 00:14:18,560

really interested in trying to combine

374

00:14:22,790 --> 00:14:20,880

new technologies with all this i'm

375

00:14:24,870 --> 00:14:22,800

really interested in these certain

376

00:14:26,790 --> 00:14:24,880

technologies that can quantify and tell

377

00:14:29,509 --> 00:14:26,800

you what lipids are there and the

378

00:14:32,470 --> 00:14:29,519

imagine the amount of them um i really

379

00:14:35,110 --> 00:14:32,480

see this technology advancing um over

380

00:14:37,750 --> 00:14:35,120

the next you know 10 20 years i'd like

381

00:14:39,990 --> 00:14:37,760

to start to really begin to look

382

00:14:40,949 --> 00:14:40,000

throughout the brain and sort of map the

383

00:14:43,110 --> 00:14:40,959

brain

384

00:14:46,389 --> 00:14:43,120

and see how can endocannabinoid levels

385

00:14:48,069 --> 00:14:46,399

really small subnuclei in small areas of

386

00:14:50,629 --> 00:14:48,079

the brain how are they possibly

387

00:14:52,470 --> 00:14:50,639

regulating food intake and reward i

388

00:14:54,310 --> 00:14:52,480

really wanted to to use these new

389

00:14:56,550 --> 00:14:54,320

technologies and nicholas has this

390

00:14:58,230 --> 00:14:56,560

changed the way you eat because you even

391

00:14:59,829 --> 00:14:58,240

know more exactly what's going on inside

392

00:15:01,350 --> 00:14:59,839

your body when you get stuck into that

393

00:15:03,189 --> 00:15:01,360

ice cream there has it changed the way

394

00:15:04,949 --> 00:15:03,199

you eat it all that's a good question

395

00:15:07,829 --> 00:15:04,959

myself has it changed

396

00:15:09,990 --> 00:15:07,839

i'm not a huge real fatty eater to be

397

00:15:13,269 --> 00:15:10,000

honest with you you're assault guy a

398

00:15:15,670 --> 00:15:13,279

savory guy to be honest i prefer the

399

00:15:17,030 --> 00:15:15,680

fats and the salt more than the sugars

400

00:15:18,710 --> 00:15:17,040

now nicholas i'll just ask you a

401
00:15:20,310 --> 00:15:18,720
political question before we go and you

402
00:15:22,629 --> 00:15:20,320
and as a scientist you don't have to

403
00:15:24,870 --> 00:15:22,639
answer this as far as california

404
00:15:27,910 --> 00:15:24,880
decriminalizing marijuana use how do you

405
00:15:30,069 --> 00:15:27,920
feel about that it's a tough question

406
00:15:32,069 --> 00:15:30,079
cannabis has a lot of therapeutic

407
00:15:33,750 --> 00:15:32,079
benefits the problem with cannabis is

408
00:15:35,430 --> 00:15:33,760
that as i said it binds all these

409
00:15:37,430 --> 00:15:35,440
receptors throughout the entire body and

410
00:15:40,470 --> 00:15:37,440
you get this side effect which is the

411
00:15:42,629 --> 00:15:40,480
psychoactive effect right the high so to

412
00:15:45,750 --> 00:15:42,639
say that's not really good medicine to

413
00:15:47,350 --> 00:15:45,760

disrupt driving skills for example the

414

00:15:49,990 --> 00:15:47,360

short answer to your question or the

415

00:15:52,629 --> 00:15:50,000

long answer is cannabis probably isn't

416

00:15:54,710 --> 00:15:52,639

the best medicine however now let's

417

00:15:57,030 --> 00:15:54,720

compare this to other drugs for example

418

00:15:58,470 --> 00:15:57,040

like opioids or oxycontin or these

419

00:16:00,710 --> 00:15:58,480

these synthetic

420

00:16:03,189 --> 00:16:00,720

opioids those drugs are horrible and

421

00:16:05,670 --> 00:16:03,199

have horrible side effects cannabis on

422

00:16:07,910 --> 00:16:05,680

the other hand you have very very few of

423

00:16:11,189 --> 00:16:07,920

these effects so it's a much in my

424

00:16:12,870 --> 00:16:11,199

opinion it'd be far far safer yes we're

425

00:16:15,430 --> 00:16:12,880

having a big chow down at lunch or

426

00:16:17,110 --> 00:16:15,440

dinner on a nice fatty again ice cream

427

00:16:18,710 --> 00:16:17,120

or something that's mmm yummy what

428

00:16:20,550 --> 00:16:18,720

should we be thinking is going on how

429

00:16:21,670 --> 00:16:20,560

can we put picture that in our mind as

430

00:16:23,269 --> 00:16:21,680

our final image of what you've

431

00:16:25,189 --> 00:16:23,279

discovered there at the university of

432

00:16:27,030 --> 00:16:25,199

california irvine the easiest way to

433

00:16:28,470 --> 00:16:27,040

conceptualize this is you imagine i

434

00:16:30,470 --> 00:16:28,480

don't know if over there you guys had

435

00:16:32,069 --> 00:16:30,480

this saying called you can't eat just

436

00:16:34,310 --> 00:16:32,079

one chip and you can kind of make the

437

00:16:36,310 --> 00:16:34,320

analogy with french fries as well when

438

00:16:38,629 --> 00:16:36,320

you taste that first potato chip or that

439

00:16:40,470 --> 00:16:38,639

first french fry why do you want to

440

00:16:42,230 --> 00:16:40,480

continue to eat that whole bag and that

441

00:16:44,389 --> 00:16:42,240

whole plate of french fries as soon as

442

00:16:46,629 --> 00:16:44,399

that first french fire chip touches the

443

00:16:49,030 --> 00:16:46,639

tongue releases the natural

444

00:16:50,870 --> 00:16:49,040

marijuana-like chemicals in the gut and

445

00:16:52,949 --> 00:16:50,880

makes you want to eat more of those

446

00:16:54,710 --> 00:16:52,959

fatty foods and it's an evolutionarily

447

00:16:56,310 --> 00:16:54,720

conserved behavior as well we're all

448

00:16:58,069 --> 00:16:56,320

still in a feast or family we have an

449

00:17:00,949 --> 00:16:58,079

evolved pest basically being on the

450

00:17:02,870 --> 00:17:00,959

savannah it's a feast or famine state so

451
00:17:05,270 --> 00:17:02,880
fat has more than twice the amount of

452
00:17:07,110 --> 00:17:05,280
energy contained in it than protein or

453
00:17:09,110 --> 00:17:07,120
carbohydrate does so it's pretty

454
00:17:11,350 --> 00:17:09,120
advantageous for you to over consume

455
00:17:13,429 --> 00:17:11,360
these foods in the savannah or in a

456
00:17:15,110 --> 00:17:13,439
feast and famine condition unfortunately

457
00:17:17,429 --> 00:17:15,120
now in industrialized more modern

458
00:17:19,110 --> 00:17:17,439
societies we have access to those fats

459
00:17:21,429 --> 00:17:19,120
right around the corner we can go eat as

460
00:17:23,669 --> 00:17:21,439
many as we want what actually stops it

461
00:17:25,829 --> 00:17:23,679
is that when the uh receptor runs out of

462
00:17:28,069 --> 00:17:25,839
uh chemical descend because that's what

463
00:17:29,430 --> 00:17:28,079

all because we our gut becomes full or

464

00:17:31,430 --> 00:17:29,440

because we notice we're getting really

465

00:17:33,830 --> 00:17:31,440

fat and unattractive to others when the

466

00:17:35,830 --> 00:17:33,840

fat touches the tongue endocannabinoid

467

00:17:37,750 --> 00:17:35,840

levels spike and drive you to eat more

468

00:17:40,230 --> 00:17:37,760

of it once you've had enough calories

469

00:17:42,870 --> 00:17:40,240

and the food then goes into the small

470

00:17:44,789 --> 00:17:42,880

intestine again just hypothesizing here

471

00:17:47,029 --> 00:17:44,799

and we still have to test this it's very

472

00:17:49,990 --> 00:17:47,039

likely that the endocannabinoid levels

473

00:17:51,750 --> 00:17:50,000

may drop terminating the meal so the

474

00:17:53,590 --> 00:17:51,760

endocannabinoids may actually be at the

475

00:17:55,270 --> 00:17:53,600

seat of both of these both of these

476
00:17:56,630 --> 00:17:55,280
phenomena i'm getting the munchies just

477
00:17:58,630 --> 00:17:56,640
even talking to you nicholas it's been

478
00:18:00,470 --> 00:17:58,640
great chatting to you

479
00:18:02,230 --> 00:18:00,480
i look forward to hearing more about

480
00:18:04,070 --> 00:18:02,240
your research in the future and nick the

481
00:18:05,909 --> 00:18:04,080
next phase it moves on to because one

482
00:18:07,750 --> 00:18:05,919
day we may be able to eat as much as we

483
00:18:09,350 --> 00:18:07,760
like and not get fat isn't that isn't

484
00:18:11,590 --> 00:18:09,360
that selfish

485
00:18:13,190 --> 00:18:11,600
i know isn't it selfish

486
00:18:14,789 --> 00:18:13,200
well we live once and we want to enjoy

487
00:18:16,470 --> 00:18:14,799
our life right is there a website or

488
00:18:17,909 --> 00:18:16,480

somewhere where people could go to uh

489

00:18:19,430 --> 00:18:17,919

look at the results and about your

490

00:18:21,830 --> 00:18:19,440

research this is published in the

491

00:18:24,710 --> 00:18:21,840

proceedings of the national academy of

492

00:18:27,909 --> 00:18:24,720

sciences the usa version um so they can

493

00:18:29,270 --> 00:18:27,919

go online the acronym is p n p-n-a-s

494

00:18:30,710 --> 00:18:29,280

that's the journal that it's published

495

00:18:33,510 --> 00:18:30,720

in you can go to university of

496

00:18:34,950 --> 00:18:33,520

california irvine school of medicine and

497

00:18:37,110 --> 00:18:34,960

there you'll find our department of

498

00:18:38,549 --> 00:18:37,120

pharmacology and you can you can log on

499

00:18:39,909 --> 00:18:38,559

there and look at a bunch of the

500

00:18:40,870 --> 00:18:39,919

research that's been done there's a

501
00:18:43,430 --> 00:18:40,880
posting

502
00:19:00,230 --> 00:18:43,440
about the specific specific study on

503
00:19:05,350 --> 00:19:02,310
this is eugenie scott national center

504
00:19:09,350 --> 00:19:05,360
for science education you can find us at

505
00:19:13,350 --> 00:19:11,110
come see us if you want to know anything

506
00:19:15,909 --> 00:19:13,360
about the creationism and evolution

507
00:19:17,830 --> 00:19:15,919
conflict in the united states or

508
00:19:19,750 --> 00:19:17,840
more is the pity internationally these

509
00:19:22,950 --> 00:19:19,760
days we are a clearinghouse for

510
00:19:24,870 --> 00:19:22,960
information on this vexing but certainly

511
00:19:34,070 --> 00:19:24,880
very interesting problem

512
00:19:39,990 --> 00:19:36,470
and now we travel back to the uh

513
00:19:42,390 --> 00:19:40,000

wonderful year of 1992 almost 20 years

514

00:19:44,710 --> 00:19:42,400

ago when abc television here in

515

00:19:46,150 --> 00:19:44,720

australia ran a program called couchman

516

00:19:48,470 --> 00:19:46,160

which was an

517

00:19:49,750 --> 00:19:48,480

interactive type audience show

518

00:19:51,350 --> 00:19:49,760

in the audience

519

00:19:54,029 --> 00:19:51,360

on this occasion

520

00:19:55,909 --> 00:19:54,039

were a number of australia's leading

521

00:19:57,830 --> 00:19:55,919

astrologers

522

00:20:00,710 --> 00:19:57,840

and some leading skeptics including

523

00:20:02,470 --> 00:20:00,720

barry williams and ian bryce who you'll

524

00:20:04,310 --> 00:20:02,480

hear later one of the leading

525

00:20:06,549 --> 00:20:04,320

astrologers you'll hear soon is milton

526

00:20:08,950 --> 00:20:06,559

black who's still doing astrology

527

00:20:10,870 --> 00:20:08,960

now he makes very bold and

528

00:20:13,190 --> 00:20:10,880

brassy predictions about

529

00:20:15,190 --> 00:20:13,200

his accuracy in predicting election

530

00:20:17,110 --> 00:20:15,200

outcomes in australia

531

00:20:18,710 --> 00:20:17,120

and at one stage you'll hear him say

532

00:20:20,390 --> 00:20:18,720

keating has gone

533

00:20:22,070 --> 00:20:20,400

implying that the prime minister then

534

00:20:24,230 --> 00:20:22,080

prime minister paul keating would lose

535

00:20:25,669 --> 00:20:24,240

the next federal election which was

536

00:20:26,950 --> 00:20:25,679

widely expected

537

00:20:29,990 --> 00:20:26,960

as it happens

538

00:20:32,070 --> 00:20:30,000

for keating won that election bear that

539

00:20:39,190 --> 00:20:32,080

in mind as we take you back

540

00:20:44,710 --> 00:20:41,750

i was just interested dr william gray

541

00:20:46,950 --> 00:20:44,720

who's at the anu has done a couple of

542

00:20:49,029 --> 00:20:46,960

surveys to try and determine how many

543

00:20:50,390 --> 00:20:49,039

people in australia do take astrology

544

00:20:52,070 --> 00:20:50,400

seriously now

545

00:20:53,990 --> 00:20:52,080

i was intrigued to discover the surveys

546

00:20:55,430 --> 00:20:54,000

were four years apart and between

547

00:20:57,350 --> 00:20:55,440

surveys

548

00:20:59,990 --> 00:20:57,360

you found that the number of people who

549

00:21:03,909 --> 00:21:00,000

said yes i do believe in astrology had

550

00:21:05,590 --> 00:21:03,919

nearly doubled yes in 1986 87 we found

551
00:21:08,310 --> 00:21:05,600
about 16

552
00:21:09,830 --> 00:21:08,320
uh were inclined to accept astrology and

553
00:21:12,470 --> 00:21:09,840
it seems to have jumped fairly

554
00:21:14,710 --> 00:21:12,480
significantly to about 29

555
00:21:16,950 --> 00:21:14,720
uh now why in the last four years would

556
00:21:18,310 --> 00:21:16,960
so many more people suddenly decide that

557
00:21:20,230 --> 00:21:18,320
they believe in astrology does it have

558
00:21:23,190 --> 00:21:20,240
anything to do with the economic times

559
00:21:25,669 --> 00:21:23,200
we're going through that's a possible

560
00:21:27,350 --> 00:21:25,679
cause for it i'm really uncertain as to

561
00:21:28,789 --> 00:21:27,360
what motivates people to believe in

562
00:21:32,470 --> 00:21:28,799
astrology

563
00:21:34,950 --> 00:21:32,480

we have certainly uh the evidence that

564

00:21:36,789 --> 00:21:34,960

women are much more inclined to accept

565

00:21:40,789 --> 00:21:36,799

astrology than men

566

00:21:44,950 --> 00:21:43,270

sensitivity somebody said

567

00:21:46,870 --> 00:21:44,960

well uh

568

00:21:48,950 --> 00:21:46,880

various conjectures have been offered

569

00:21:52,310 --> 00:21:48,960

for that one is that perhaps

570

00:21:54,310 --> 00:21:52,320

uh astrology and a lot of the uh psychic

571

00:21:58,070 --> 00:21:54,320

and mystical belief systems

572

00:22:00,870 --> 00:21:58,080

uh provide a an alternative to

573

00:22:03,510 --> 00:22:00,880

science-based world views which perhaps

574

00:22:06,070 --> 00:22:03,520

have a very unattractive macho male

575

00:22:07,990 --> 00:22:06,080

gender stereotype that's uh one

576

00:22:09,830 --> 00:22:08,000

possibility but it's pretty arm waving

577

00:22:12,310 --> 00:22:09,840

speculative stuff

578

00:22:15,830 --> 00:22:12,320

another possibility is that women in

579

00:22:16,950 --> 00:22:15,840

general uh find their lives for various

580

00:22:19,350 --> 00:22:16,960

reasons

581

00:22:21,830 --> 00:22:19,360

uh subject to forces outside their

582

00:22:23,669 --> 00:22:21,840

control and it may be that people who

583

00:22:27,510 --> 00:22:23,679

don't have a high degree of autonomy in

584

00:22:29,750 --> 00:22:27,520

their lives are also inclined to uh

585

00:22:31,750 --> 00:22:29,760

suspect that there are outside forces

586

00:22:33,750 --> 00:22:31,760

controlling their destiny but would you

587

00:22:35,750 --> 00:22:33,760

say that women are perhaps a little bit

588

00:22:37,590 --> 00:22:35,760

more intuitive than men and can

589

00:22:40,149 --> 00:22:37,600

understand the qualities of astrology

590

00:22:42,310 --> 00:22:40,159

and psychic phenomena i know no proof to

591

00:22:43,430 --> 00:22:42,320

establish that at all i'm afraid so see

592

00:22:45,110 --> 00:22:43,440

the other thing that came out of these

593

00:22:48,149 --> 00:22:45,120

surveys that i found really interesting

594

00:22:49,750 --> 00:22:48,159

was that the belief in astrology was in

595

00:22:51,190 --> 00:22:49,760

inverse proportion to the level of

596

00:22:53,430 --> 00:22:51,200

education so in other words the more

597

00:22:55,029 --> 00:22:53,440

educated you were the less likely you

598

00:22:59,110 --> 00:22:55,039

were to take it seriously i'd have to

599

00:23:03,990 --> 00:23:00,950

can i unfortunately well i'll just

600

00:23:06,310 --> 00:23:04,000

expand on that momentarily if i may uh

601
00:23:08,630 --> 00:23:06,320
there were three very firm correlations

602
00:23:11,270 --> 00:23:08,640
that came out of the survey and they are

603
00:23:13,350 --> 00:23:11,280
pretty strong there is an age-related

604
00:23:15,110 --> 00:23:13,360
correlation there is an education

605
00:23:16,950 --> 00:23:15,120
related correlation and there's a gender

606
00:23:19,750 --> 00:23:16,960
related correlation now there does seem

607
00:23:22,070 --> 00:23:19,760
to be some truth in the old adage older

608
00:23:23,830 --> 00:23:22,080
and wiser that the older people get the

609
00:23:26,390 --> 00:23:23,840
more skeptical they become the less

610
00:23:28,470 --> 00:23:26,400
inclined they are to accept that the

611
00:23:31,830 --> 00:23:28,480
planets do affect their destinies in any

612
00:23:33,830 --> 00:23:31,840
way education is the most dramatic and

613
00:23:36,549 --> 00:23:33,840

the strongest influence the more

614

00:23:38,630 --> 00:23:36,559

education people have consumed the less

615

00:23:40,630 --> 00:23:38,640

likely they are to accept that the

616

00:23:43,190 --> 00:23:40,640

planets affect their destiny and have to

617

00:23:46,230 --> 00:23:43,200

dispute that

618

00:23:48,789 --> 00:23:46,240

the reason well 99 so i say this most of

619

00:23:54,870 --> 00:23:48,799

my personal clientele are politicians

620

00:23:59,270 --> 00:23:56,789

it sounds very hilarious in today's

621

00:24:01,590 --> 00:23:59,280

times but i have doctors of philosophy

622

00:24:03,430 --> 00:24:01,600

that come to see me i have medical

623

00:24:05,909 --> 00:24:03,440

practitioners that come to see me i have

624

00:24:08,470 --> 00:24:05,919

barristers and solicitors i have

625

00:24:10,870 --> 00:24:08,480

businessmen very well known businessmen

626
00:24:13,350 --> 00:24:10,880
in this country and i also have

627
00:24:15,190 --> 00:24:13,360
housewives and students so i have a wide

628
00:24:17,590 --> 00:24:15,200
variety of people that visit me

629
00:24:19,510 --> 00:24:17,600
personally now for you to make that

630
00:24:21,750 --> 00:24:19,520
statement i would have to say you're

631
00:24:23,669 --> 00:24:21,760
wrong no look hang on i'm not saying

632
00:24:25,909 --> 00:24:23,679
that these people your clients have not

633
00:24:27,830 --> 00:24:25,919
got a high level of education all i

634
00:24:30,549 --> 00:24:27,840
would be asserting is that they are in a

635
00:24:32,630 --> 00:24:30,559
very small minority of those educated

636
00:24:34,549 --> 00:24:32,640
people who accept the truth in astrology

637
00:24:35,909 --> 00:24:34,559
yes the lady behind me yes you're

638
00:24:39,110 --> 00:24:35,919

wanting to say something again are we

639

00:24:42,070 --> 00:24:39,120

speaking of pop astrology uh that the

640

00:24:44,230 --> 00:24:42,080

survey was made on or on astrology

641

00:24:45,750 --> 00:24:44,240

serious astrology the survey was couched

642

00:24:47,510 --> 00:24:45,760

in very general terms it was simply

643

00:24:48,870 --> 00:24:47,520

people were simply asking questions

644

00:24:50,470 --> 00:24:48,880

respond to the question do you believe

645

00:24:52,870 --> 00:24:50,480

in astrology it was as simple as that

646

00:24:55,350 --> 00:24:52,880

when the president of america has well

647

00:24:57,669 --> 00:24:55,360

known become someone who has gone to an

648

00:24:59,669 --> 00:24:57,679

astrologer that people in high positions

649

00:25:02,230 --> 00:24:59,679

don't use astrology i mean that is a man

650

00:25:04,149 --> 00:25:02,240

with incredible worldly power all right

651
00:25:06,390 --> 00:25:04,159
lots of people may not put down on their

652
00:25:08,710 --> 00:25:06,400
survey that they go to astrologers or

653
00:25:10,789 --> 00:25:08,720
read astrology because it has a social

654
00:25:12,710 --> 00:25:10,799
stigma it's not something that a lot of

655
00:25:14,630 --> 00:25:12,720
people want to run around and say i'm a

656
00:25:16,950 --> 00:25:14,640
great success because i go to an

657
00:25:19,029 --> 00:25:16,960
astrologer so therefore people are very

658
00:25:20,710 --> 00:25:19,039
closeted it's a very personal very

659
00:25:23,029 --> 00:25:20,720
intimate subject and i don't think

660
00:25:25,190 --> 00:25:23,039
surveys are the way to judge who does it

661
00:25:27,510 --> 00:25:25,200
who reads it the way to judge who reads

662
00:25:29,590 --> 00:25:27,520
them is to see people who do know their

663
00:25:31,830 --> 00:25:29,600

star sign and can say things like peter

664

00:25:33,510 --> 00:25:31,840

said when he began the show they wrote

665

00:25:35,029 --> 00:25:33,520

write it off like they know it all so

666

00:25:36,870 --> 00:25:35,039

well i think the surveys are interesting

667

00:25:38,549 --> 00:25:36,880

in that they give us a broad indication

668

00:25:40,070 --> 00:25:38,559

as to how the population reacts to

669

00:25:42,870 --> 00:25:40,080

certain subjects you see the other thing

670

00:25:44,470 --> 00:25:42,880

the uh the survey told us was that about

671

00:25:46,310 --> 00:25:44,480

a quarter of the population reads the

672

00:25:48,710 --> 00:25:46,320

columns and about a half of them take it

673

00:25:51,430 --> 00:25:48,720

seriously doctor can i just uh rephrase

674

00:25:53,669 --> 00:25:51,440

it to about specialized astrology now i

675

00:25:56,230 --> 00:25:53,679

specialize in political astrology that's

676

00:25:57,990 --> 00:25:56,240

my forte i'm very good at it i've

677

00:26:01,510 --> 00:25:58,000

predicted every state and federal

678

00:26:06,070 --> 00:26:01,520

election since 1974 including this last

679

00:26:08,950 --> 00:26:07,750

i've gone further than that i've gone

680

00:26:10,710 --> 00:26:08,960

seats

681

00:26:14,230 --> 00:26:10,720

now in this last prediction for the

682

00:26:15,909 --> 00:26:14,240

tasmanian election and i can remember uh

683

00:26:18,070 --> 00:26:15,919

saying this to the media but also to a

684

00:26:19,990 --> 00:26:18,080

local member of parliament at a function

685

00:26:21,590 --> 00:26:20,000

that i set on the friday night prior to

686

00:26:23,830 --> 00:26:21,600

the saturday's election

687

00:26:26,950 --> 00:26:23,840

i said there'll be a minimum of 19 seats

688

00:26:28,789 --> 00:26:26,960

and a maximum of 21 to the liberal party

689

00:26:31,029 --> 00:26:28,799

now i go down to seats i just don't say

690

00:26:32,630 --> 00:26:31,039

the liberals are going to win the labor

691

00:26:34,710 --> 00:26:32,640

parties but now milton do you do your

692

00:26:35,990 --> 00:26:34,720

predictions after you've read the polls

693

00:26:37,029 --> 00:26:36,000

no i do them

694

00:26:39,190 --> 00:26:37,039

can you give us a tip for the next

695

00:26:41,029 --> 00:26:39,200

federal elections yes keating's gone you

696

00:26:43,510 --> 00:26:41,039

know so but i'll give you more details

697

00:26:45,190 --> 00:26:43,520

on that later

698

00:26:46,789 --> 00:26:45,200

people in australia are saying that but

699

00:26:48,549 --> 00:26:46,799

i will give you the seats

700

00:26:50,070 --> 00:26:48,559

well give us a seat no not at the moment

701
00:26:51,990 --> 00:26:50,080
not at the moment i haven't i haven't

702
00:26:54,870 --> 00:26:52,000
it's still we've got till march next

703
00:26:56,789 --> 00:26:54,880
year now september of this year is where

704
00:26:58,789 --> 00:26:56,799
we're going to see things well from to

705
00:27:00,950 --> 00:26:58,799
be precise the 12th of august you'll

706
00:27:03,029 --> 00:27:00,960
start seeing keating warming up wanting

707
00:27:06,149 --> 00:27:03,039
perhaps to run an early election but i'm

708
00:27:07,669 --> 00:27:06,159
leaving that to my media outlets because

709
00:27:10,149 --> 00:27:07,679
that's where i make my predictions

710
00:27:12,470 --> 00:27:10,159
that's what i get paid for and of course

711
00:27:13,750 --> 00:27:12,480
uh i will certainly let you know my

712
00:27:16,390 --> 00:27:13,760
predictions

713
00:27:18,470 --> 00:27:16,400

in future okay look let's get down to 10

714

00:27:20,549 --> 00:27:18,480

tax here because there's one

715

00:27:22,470 --> 00:27:20,559

very basic question that i'd really like

716

00:27:24,549 --> 00:27:22,480

to hear you discuss and that is why

717

00:27:27,029 --> 00:27:24,559

should the position of the planets

718

00:27:28,630 --> 00:27:27,039

have any influence on how we turn out to

719

00:27:30,470 --> 00:27:28,640

be on our personalities on our

720

00:27:32,149 --> 00:27:30,480

characters even the

721

00:27:34,230 --> 00:27:32,159

choice of occupation that we might make

722

00:27:36,390 --> 00:27:34,240

what might happen in our lives why

723

00:27:37,750 --> 00:27:36,400

should that be can anyone explain that

724

00:27:45,029 --> 00:27:37,760

for me

725

00:27:48,950 --> 00:27:47,269

the answer to that's very simple peter

726

00:27:51,190 --> 00:27:48,960

the forces that govern the universe are

727

00:27:53,590 --> 00:27:51,200

quite well known and they have been for

728

00:27:54,950 --> 00:27:53,600

about half a century and that the forces

729

00:27:57,110 --> 00:27:54,960

do not account for any of those

730

00:27:59,029 --> 00:27:57,120

interactions the planets do not affect

731

00:28:07,110 --> 00:27:59,039

our personalities and the events that

732

00:28:10,710 --> 00:28:08,789

how the position of the planets at the

733

00:28:12,789 --> 00:28:10,720

time of our birth might in any way

734

00:28:14,630 --> 00:28:12,799

affect what sort of people we are well

735

00:28:16,630 --> 00:28:14,640

peter i think that first of all the

736

00:28:18,310 --> 00:28:16,640

purpose of astrology is not to foretell

737

00:28:20,950 --> 00:28:18,320

the future

738

00:28:22,710 --> 00:28:20,960

no one exactly what you claim to do no

739

00:28:24,870 --> 00:28:22,720

it is not what we claim to do it's what

740

00:28:26,710 --> 00:28:24,880

you people keep claiming we do we don't

741

00:28:28,870 --> 00:28:26,720

just listen to an astrologer for 30

742

00:28:30,710 --> 00:28:28,880

seconds yeah okay just explain why the

743

00:28:33,510 --> 00:28:30,720

position of the planet should in any way

744

00:28:35,669 --> 00:28:33,520

influence our personalities the position

745

00:28:37,830 --> 00:28:35,679

of the planets when we're talking about

746

00:28:39,750 --> 00:28:37,840

the the solar system

747

00:28:41,990 --> 00:28:39,760

the most important thing in the solar

748

00:28:45,110 --> 00:28:42,000

system is the sun

749

00:28:47,590 --> 00:28:45,120

you switch off that sun

750

00:28:49,110 --> 00:28:47,600

you've got a heap of rocks

751
00:28:52,389 --> 00:28:49,120
having said that

752
00:28:53,909 --> 00:28:52,399
there are four major seasons

753
00:28:57,029 --> 00:28:53,919
summer

754
00:29:00,310 --> 00:28:57,039
autumn winter spring

755
00:29:03,110 --> 00:29:00,320
a plant that will grow in the spring

756
00:29:06,389 --> 00:29:03,120
will not grow in the summer

757
00:29:07,510 --> 00:29:06,399
i won't bore you it goes on

758
00:29:09,190 --> 00:29:07,520
there are

759
00:29:20,310 --> 00:29:09,200
well we're ordering no i think i think i

760
00:29:24,789 --> 00:29:22,870
arthur bowman will tell you that

761
00:29:27,669 --> 00:29:24,799
every time

762
00:29:29,350 --> 00:29:27,679
in the universe is

763
00:29:32,070 --> 00:29:29,360

putting its stamp

764

00:29:34,149 --> 00:29:32,080

impeccably and forever on every part of

765

00:29:36,389 --> 00:29:34,159

that universe that started at that

766

00:29:40,070 --> 00:29:36,399

moment including people

767

00:29:42,389 --> 00:29:40,080

a winter child is like a winter flower a

768

00:29:43,750 --> 00:29:42,399

summer child is like a summer flower we

769

00:29:45,990 --> 00:29:43,760

are different

770

00:29:47,909 --> 00:29:46,000

i take a step i'm different to the

771

00:29:49,430 --> 00:29:47,919

person who has one step behind me and

772

00:29:50,710 --> 00:29:49,440

different again to the person on either

773

00:29:53,669 --> 00:29:50,720

side of me

774

00:29:55,669 --> 00:29:53,679

the thing that makes astrology work best

775

00:29:57,909 --> 00:29:55,679

is free will

776

00:30:00,950 --> 00:29:57,919

free will because you can have

777

00:30:03,350 --> 00:30:00,960

50 000 people born at the same instant

778

00:30:05,990 --> 00:30:03,360

under the same planetary influences and

779

00:30:07,269 --> 00:30:06,000

they exercising their god-given free

780

00:30:13,269 --> 00:30:07,279

will

781

00:30:14,389 --> 00:30:13,279

decisions and each one of them can be

782

00:30:16,149 --> 00:30:14,399

right

783

00:30:17,750 --> 00:30:16,159

for you yes but hold on a minute does

784

00:30:20,549 --> 00:30:17,760

that mean that all those people who were

785

00:30:23,350 --> 00:30:20,559

born at the same minute that i was

786

00:30:24,870 --> 00:30:23,360

uh also all those things that i am you

787

00:30:27,350 --> 00:30:24,880

know on the bad days malicious

788

00:30:29,830 --> 00:30:27,360

pessimistic and selfish and uh yes but

789

00:30:31,990 --> 00:30:29,840

they've got a pretty logical twin like a

790

00:30:33,350 --> 00:30:32,000

person born on the same hospital around

791

00:30:35,750 --> 00:30:33,360

about the same time as you would have a

792

00:30:37,750 --> 00:30:35,760

similar experience or life pattern

793

00:30:39,190 --> 00:30:37,760

but does that mean by by by that

794

00:30:42,549 --> 00:30:39,200

definition the grey's just given us we

795

00:30:44,230 --> 00:30:42,559

should be almost identical personalities

796

00:30:45,990 --> 00:30:44,240

because we're taking into account the

797

00:30:48,710 --> 00:30:46,000

genetic processes

798

00:30:51,029 --> 00:30:48,720

that arrive from the two family lines

799

00:30:52,710 --> 00:30:51,039

that a conception then meet and that

800

00:30:54,950 --> 00:30:52,720

individual is obviously going to display

801
00:30:56,950 --> 00:30:54,960
a lot of those genetic processes and is

802
00:30:58,870 --> 00:30:56,960
the environmental influences acting on

803
00:31:01,590 --> 00:30:58,880
those genetic processes which is going

804
00:31:03,029 --> 00:31:01,600
to make that person what they are

805
00:31:04,710 --> 00:31:03,039
what they're saying is cop out from what

806
00:31:07,669 --> 00:31:04,720
they're claiming i mean they're giving

807
00:31:09,269 --> 00:31:07,679
you all the only fell back today

808
00:31:11,269 --> 00:31:09,279
can't the skeptics have to say isn't it

809
00:31:13,350 --> 00:31:11,279
allowed no everything

810
00:31:15,750 --> 00:31:13,360
they start about

811
00:31:17,510 --> 00:31:15,760
about free will free will yes yes well

812
00:31:20,070 --> 00:31:17,520
that isn't that denying the whole basis

813
00:31:21,750 --> 00:31:20,080

of your load of rubbish you talk about

814

00:31:23,750 --> 00:31:21,760

okay wait a minute go ahead barry mate

815

00:31:24,789 --> 00:31:23,760

was denying all these influences make

816

00:31:26,389 --> 00:31:24,799

your point

817

00:31:28,630 --> 00:31:26,399

i will use it this way

818

00:31:36,630 --> 00:31:28,640

i can use this chair like that or i can

819

00:31:39,909 --> 00:31:37,909

what was your point barry what are you

820

00:31:41,669 --> 00:31:39,919

going to say look the point is they make

821

00:31:43,990 --> 00:31:41,679

a statement about this influence they

822

00:31:45,110 --> 00:31:44,000

have and then for the rest of the five

823

00:31:46,950 --> 00:31:45,120

minutes they've been talking i've been

824

00:31:48,630 --> 00:31:46,960

giving you the outs from it so that when

825

00:31:50,070 --> 00:31:48,640

it doesn't work for you well it might be

826

00:31:51,269 --> 00:31:50,080

a genetic influence or it might be a

827

00:31:52,310 --> 00:31:51,279

free will or it might be anything else i

828

00:31:55,350 --> 00:31:52,320

mean

829

00:31:57,509 --> 00:31:55,360

will

830

00:32:00,789 --> 00:31:57,519

why do you have to then overlay your

831

00:32:02,870 --> 00:32:00,799

free will with this absolute crime

832

00:32:16,230 --> 00:32:02,880

hold on hold on break this up i'm gonna

833

00:32:19,029 --> 00:32:17,990

hi this is michael cruz from the

834

00:32:20,950 --> 00:32:19,039

committee for the advancement of

835

00:32:22,549 --> 00:32:20,960

scientific skepticism at the center for

836

00:32:23,750 --> 00:32:22,559

inquiry canada

837

00:32:25,909 --> 00:32:23,760

cass is committed to critically

838

00:32:27,430 --> 00:32:25,919

examining scientific technological and

839

00:32:28,789 --> 00:32:27,440

medical claims in the public forum

840

00:32:30,789 --> 00:32:28,799

across canada

841

00:32:33,190 --> 00:32:30,799

working with our expert advisors local

842

00:32:34,470 --> 00:32:33,200

cfi branches and other skeptical groups

843

00:32:36,230 --> 00:32:34,480

cass confronts the peddlers of

844

00:32:37,990 --> 00:32:36,240

pseudoscience with evidence-based

845

00:32:39,750 --> 00:32:38,000

scientific inquiry

846

00:32:42,149 --> 00:32:39,760

2010 has been a watershed year for the

847

00:32:44,070 --> 00:32:42,159

skeptical movement in canada and in 2011

848

00:32:46,070 --> 00:32:44,080

cass will continue fighting bad science

849

00:32:47,509 --> 00:32:46,080

in the media and the government

850

00:32:48,870 --> 00:32:47,519

if you would like to become involved in

851

00:32:50,630 --> 00:32:48,880

the fight to promote critical thinking

852

00:32:51,909 --> 00:32:50,640

in canada or if you have a concern about

853

00:32:54,789 --> 00:32:51,919

the spread of pseudoscience in the

854

00:32:57,590 --> 00:32:54,799

canadian media please contact us at cass

855

00:33:00,710 --> 00:32:57,600

cfi canada dot ca you can also follow us

856

00:33:03,190 --> 00:33:00,720

on twitter at cficass and on facebook at

857

00:33:05,269 --> 00:33:03,200

cass at center for inquiry canada

858

00:33:18,310 --> 00:33:05,279

cass fighting pseudoscience without

859

00:33:22,149 --> 00:33:20,630

welcome to supernova 2011. it's all

860

00:33:23,750 --> 00:33:22,159

happening all the fans are here all the

861

00:33:27,230 --> 00:33:23,760

geeks are here all the big stars are

862

00:33:29,110 --> 00:33:27,240

here and well i'm here too supernova

863

00:33:30,870 --> 00:33:29,120

2011.

864

00:33:32,870 --> 00:33:30,880

look who we got here

865

00:33:34,389 --> 00:33:32,880

it's a skeptic but he's not a skeptic

866

00:33:36,149 --> 00:33:34,399

he's actually dressed as some guy with

867

00:33:38,070 --> 00:33:36,159

superpowers that an idiot wearing a tie

868

00:33:40,389 --> 00:33:38,080

and a leather jacket hasn't got it's

869

00:33:42,149 --> 00:33:40,399

brett how are you brett from the hunter

870

00:33:43,509 --> 00:33:42,159

we don't like religion so much i mean we

871

00:33:45,830 --> 00:33:43,519

should think about the contradictions in

872

00:33:46,870 --> 00:33:45,840

the bible society yes there you go you

873

00:33:47,990 --> 00:33:46,880

should get a shorter name for that

874

00:33:50,070 --> 00:33:48,000

society

875

00:33:52,149 --> 00:33:50,080

a shorter name yes well atheist

876

00:33:53,669 --> 00:33:52,159

agnostics anti-theist society is a bit

877

00:33:55,110 --> 00:33:53,679

of a mouthful so we do just shorten it

878

00:33:56,789 --> 00:33:55,120

to a3

879

00:33:59,110 --> 00:33:56,799

like hey go easy on the god isn't that

880

00:34:02,870 --> 00:33:59,120

your uh theme well

881

00:34:05,269 --> 00:34:02,880

yeah like the club itself likes to be uh

882

00:34:07,350 --> 00:34:05,279

we just like to discuss ideas and we

883

00:34:09,109 --> 00:34:07,360

encourage the members to be as nasty or

884

00:34:10,389 --> 00:34:09,119

as nice to religion as they like but we

885

00:34:12,710 --> 00:34:10,399

do encourage people to have a think

886

00:34:14,389 --> 00:34:12,720

about it yeah i know so i always get

887

00:34:16,149 --> 00:34:14,399

sidetracked by this issue because i just

888

00:34:17,829 --> 00:34:16,159

theology just fascinates me both people

889

00:34:19,190 --> 00:34:17,839

that are into it and aren't into it so i

890

00:34:20,710 --> 00:34:19,200

won't get sidetracked i'll just let's

891

00:34:23,510 --> 00:34:20,720

just have a look around because

892

00:34:25,430 --> 00:34:23,520

very much as you would say we are

893

00:34:26,629 --> 00:34:25,440

like the bible completely existing in a

894

00:34:28,230 --> 00:34:26,639

fictional world here aren't we

895

00:34:30,710 --> 00:34:28,240

everything here is based on wonderful

896

00:34:33,270 --> 00:34:30,720

fiction yeah pretty much i'd look around

897

00:34:34,629 --> 00:34:33,280

and i'd say at least half or more than

898

00:34:37,270 --> 00:34:34,639

half of the people

899

00:34:37,990 --> 00:34:37,280

aren't dressed as normal humans

900

00:34:39,030 --> 00:34:38,000

yeah

901
00:34:40,389 --> 00:34:39,040
and this is what i would normally be

902
00:34:41,349 --> 00:34:40,399
wearing this time of day anyway there

903
00:34:42,470 --> 00:34:41,359
and the thing is we haven't tried to

904
00:34:45,750 --> 00:34:42,480
figure out what kind of character i

905
00:34:48,230 --> 00:34:45,760
might be yeah actually um that's that's

906
00:34:50,629 --> 00:34:48,240
i mean the jacket looks great the red

907
00:34:51,990 --> 00:34:50,639
tie it's brilliant it could fit into an

908
00:34:53,750 --> 00:34:52,000
anime somewhere we just need to find

909
00:34:56,149 --> 00:34:53,760
which one yeah i was thinking like i

910
00:34:58,230 --> 00:34:56,159
said john travolta after he was shot in

911
00:34:59,510 --> 00:34:58,240
pulp fiction yeah yeah

912
00:35:01,270 --> 00:34:59,520
yeah the body in the back they had to

913
00:35:02,710 --> 00:35:01,280

take the harvard hotel space something

914

00:35:04,470 --> 00:35:02,720

like that just a few ideas to come top

915

00:35:06,390 --> 00:35:04,480

my head but let's tell us i'm going to

916

00:35:09,589 --> 00:35:06,400

step back tell us about your character

917

00:35:11,349 --> 00:35:09,599

all right well my name is ganondorf i am

918

00:35:14,550 --> 00:35:11,359

the king of evil from the legend of

919

00:35:17,270 --> 00:35:14,560

zelda um i come from the desert i lead a

920

00:35:19,670 --> 00:35:17,280

band of thieves i broke into the king's

921

00:35:22,310 --> 00:35:19,680

castle and stole the triforme which is a

922

00:35:24,230 --> 00:35:22,320

power left by the gods to give people

923

00:35:27,750 --> 00:35:24,240

whatever wish they want

924

00:35:29,430 --> 00:35:27,760

wow so so george hamilton's not in that

925

00:35:30,950 --> 00:35:29,440

not that i know when you say the legend

926
00:35:33,030 --> 00:35:30,960
of zelda i thought george hamilton would

927
00:35:34,630 --> 00:35:33,040
have to be in that but he's a tan i'm

928
00:35:36,390 --> 00:35:34,640
i'm sorry i'm unfamiliar with george

929
00:35:38,069 --> 00:35:36,400
hamilton oh yeah you see i'm i'm just

930
00:35:40,150 --> 00:35:38,079
bringing

931
00:35:42,230 --> 00:35:40,160
the guy from the steampunk 18th century

932
00:35:44,390 --> 00:35:42,240
walks into these things and he i i know

933
00:35:45,190 --> 00:35:44,400
not of young people and their tales

934
00:35:46,550 --> 00:35:45,200
yeah

935
00:35:47,990 --> 00:35:46,560
but we can all agree on one thing the

936
00:35:49,670 --> 00:35:48,000
tom baker exhibition the tom baker

937
00:35:51,510 --> 00:35:49,680
exhibition down there is hot yeah

938
00:35:53,670 --> 00:35:51,520

definitely definitely and the other

939

00:35:55,750 --> 00:35:53,680

thing we'd all agree on and i really

940

00:35:56,870 --> 00:35:55,760

enjoyed getting this across to here and

941

00:35:58,310 --> 00:35:56,880

people that don't come to these kind of

942

00:36:00,310 --> 00:35:58,320

things

943

00:36:02,069 --> 00:36:00,320

it's great to be in the community here

944

00:36:03,510 --> 00:36:02,079

you know it's great to have like people

945

00:36:04,790 --> 00:36:03,520

in your shop that are really enjoying

946

00:36:07,510 --> 00:36:04,800

the stuff

947

00:36:09,349 --> 00:36:07,520

definitely like i can't walk five meters

948

00:36:11,349 --> 00:36:09,359

without people coming up and saying hey

949

00:36:13,190 --> 00:36:11,359

ganondorf i love your character i love

950

00:36:15,190 --> 00:36:13,200

your costume you look brilliant and we

951
00:36:17,589 --> 00:36:15,200
just have a conversation about all the

952
00:36:18,870 --> 00:36:17,599
stuff we're into look at and and what

953
00:36:19,750 --> 00:36:18,880
yes how would you describe the kind of

954
00:36:21,349 --> 00:36:19,760
people that are here because we are

955
00:36:23,109 --> 00:36:21,359
talking about the community what kind of

956
00:36:24,710 --> 00:36:23,119
people are sort of turning up here today

957
00:36:26,069 --> 00:36:24,720
because i know it's just like the

958
00:36:27,510 --> 00:36:26,079
regular people i meet around all the

959
00:36:29,990 --> 00:36:27,520
time but people who don't come to this

960
00:36:32,230 --> 00:36:30,000
kind of stuff thinks that it's like

961
00:36:33,510 --> 00:36:32,240
guys with beards glasses and nerdy guys

962
00:36:35,030 --> 00:36:33,520
that have never been out on a date with

963
00:36:37,190 --> 00:36:35,040

girls but it couldn't be anything

964

00:36:38,630 --> 00:36:37,200

further than that yeah well so not

965

00:36:40,390 --> 00:36:38,640

wanting to indict myself too much i

966

00:36:43,109 --> 00:36:40,400

would say most people are

967

00:36:44,470 --> 00:36:43,119

nerds but that extends beyond what most

968

00:36:46,150 --> 00:36:44,480

people think like when you think of a

969

00:36:48,550 --> 00:36:46,160

nerd you think glasses guy he's never

970

00:36:50,230 --> 00:36:48,560

been outside but like heaps of girls

971

00:36:52,790 --> 00:36:50,240

these days is playing video games they

972

00:36:54,310 --> 00:36:52,800

watch anime they get into sci-fi

973

00:36:55,510 --> 00:36:54,320

but yeah like it's not what you expect

974

00:36:57,670 --> 00:36:55,520

and it's like a day out with the

975

00:36:59,589 --> 00:36:57,680

community and sure we all exist online

976

00:37:01,190 --> 00:36:59,599

around with each other yeah but we don't

977

00:37:01,990 --> 00:37:01,200

often get to meet in that kind of stuff

978

00:37:05,430 --> 00:37:02,000

and

979

00:37:07,270 --> 00:37:05,440

no stupider than following a sporting

980

00:37:08,950 --> 00:37:07,280

team yeah totally i mean i've got

981

00:37:10,470 --> 00:37:08,960

friends from brisbane and perth who are

982

00:37:12,150 --> 00:37:10,480

here and like we're dressed as

983

00:37:13,510 --> 00:37:12,160

characters from the same game so we can

984

00:37:15,190 --> 00:37:13,520

meet up and everyone thinks that we're

985

00:37:16,950 --> 00:37:15,200

from the same place so

986

00:37:19,109 --> 00:37:16,960

yeah now is there some irony in the fact

987

00:37:22,550 --> 00:37:19,119

that you're a very strong anti-theist

988

00:37:25,270 --> 00:37:22,560

and you're dressed as a god

989

00:37:27,670 --> 00:37:25,280

can i go splitter splitter

990

00:37:31,990 --> 00:37:27,680

the irony is not lost in me um i would

991

00:37:34,470 --> 00:37:32,000

prefer to use the term double agents

992

00:37:35,750 --> 00:37:34,480

well there's a part that always happens

993

00:37:37,510 --> 00:37:35,760

at any of these great adventures that

994

00:37:39,030 --> 00:37:37,520

richard and i go on when we're mucking

995

00:37:40,550 --> 00:37:39,040

around carrying on doing something for

996

00:37:42,310 --> 00:37:40,560

the skeptic zone where we get to have

997

00:37:43,910 --> 00:37:42,320

our noms now normally dr raichi's here

998

00:37:44,870 --> 00:37:43,920

for this kind of stuff but

999

00:37:47,190 --> 00:37:44,880

i think she's attending to a

1000

00:37:49,670 --> 00:37:47,200

non-emergency somewhere else isn't she

1001
00:37:51,750 --> 00:37:49,680
yes she must be noms without dr rachie

1002
00:37:53,670 --> 00:37:51,760
it's a bit odd but but we are numbing

1003
00:37:54,870 --> 00:37:53,680
for her yeah well i'm sure you can eat

1004
00:37:56,470 --> 00:37:54,880
as much as three people if you really

1005
00:37:57,750 --> 00:37:56,480
want to richard i really wanted to hear

1006
00:37:59,430 --> 00:37:57,760
yeah but i gotta say richard has lost a

1007
00:38:02,950 --> 00:37:59,440
lot of weight lately because to be on

1008
00:38:05,190 --> 00:38:02,960
the one he he had to have a bmi of seven

1009
00:38:06,230 --> 00:38:05,200
before they let him on tv and uh it does

1010
00:38:07,910 --> 00:38:06,240
great he's now got the figure of a

1011
00:38:09,270 --> 00:38:07,920
twelve-year-old girl and uh and she

1012
00:38:10,950 --> 00:38:09,280
really and she really misses it and she

1013
00:38:12,870 --> 00:38:10,960

wants it back yeah the the um the

1014

00:38:14,950 --> 00:38:12,880

treadmill is my friend now i can tell

1015

00:38:16,310 --> 00:38:14,960

you yeah look secretly it has been for

1016

00:38:17,829 --> 00:38:16,320

many years people but look we're here

1017

00:38:19,589 --> 00:38:17,839

with some people that have got more than

1018

00:38:21,430 --> 00:38:19,599

a treadmill for their friend because

1019

00:38:23,430 --> 00:38:21,440

thousands of people around us are here

1020

00:38:25,430 --> 00:38:23,440

doing the cosplay doing the sci-fi thing

1021

00:38:26,870 --> 00:38:25,440

and when you come to these things you go

1022

00:38:28,470 --> 00:38:26,880

it's a lot of work to cover this but

1023

00:38:30,790 --> 00:38:28,480

after you've come here a little while

1024

00:38:32,550 --> 00:38:30,800

it's not just the stars or the famous

1025

00:38:33,990 --> 00:38:32,560

people you talk to it's the people that

1026

00:38:35,430 --> 00:38:34,000

are just into

1027

00:38:36,790 --> 00:38:35,440

into all the sci-fi stuff it's great

1028

00:38:40,550 --> 00:38:36,800

because you don't meet him normally you

1029

00:38:43,670 --> 00:38:40,560

don't and i was just thinking before

1030

00:38:46,150 --> 00:38:43,680

uh now we go along to mind body wallet

1031

00:38:47,829 --> 00:38:46,160

twice a year and it's full of people

1032

00:38:49,349 --> 00:38:47,839

this is also full of people and you

1033

00:38:51,910 --> 00:38:49,359

might say well this is more outrageous

1034

00:38:54,470 --> 00:38:51,920

or more fantasy well it's not because

1035

00:38:55,349 --> 00:38:54,480

everyone here is coming here to indulge

1036

00:38:58,870 --> 00:38:55,359

their

1037

00:39:02,550 --> 00:38:58,880

know

1038

00:39:04,470 --> 00:39:02,560

it's good fun and an escape no one here

1039

00:39:07,190 --> 00:39:04,480

actually really thinks that the vampires

1040

00:39:08,790 --> 00:39:07,200

are real and all the rest of it

1041

00:39:10,310 --> 00:39:08,800

whereas your mind body wallet there are

1042

00:39:11,829 --> 00:39:10,320

people there being

1043

00:39:14,550 --> 00:39:11,839

going on thinking the crystals are

1044

00:39:16,630 --> 00:39:14,560

healing them and so forth also we spoke

1045

00:39:18,390 --> 00:39:16,640

to brett from the uh atheist society of

1046

00:39:20,230 --> 00:39:18,400

newcastle and i made the comment that he

1047

00:39:21,910 --> 00:39:20,240

was dressed up as a god one of the gods

1048

00:39:23,430 --> 00:39:21,920

and i thought that was a bit ironic and

1049

00:39:24,710 --> 00:39:23,440

uh but he made the point that well you

1050

00:39:26,150 --> 00:39:24,720

know it's a bit you know just like the

1051
00:39:27,990 --> 00:39:26,160
bible here there's a wonderful fictional

1052
00:39:29,670 --> 00:39:28,000
world that everyone's living in but no

1053
00:39:31,030 --> 00:39:29,680
one's re i mean you don't find the uh

1054
00:39:32,710 --> 00:39:31,040
trekkies going to war with the doctor

1055
00:39:34,870 --> 00:39:32,720
who fans you know besides the fact that

1056
00:39:36,710 --> 00:39:34,880
win obviously you know that they it's

1057
00:39:38,630 --> 00:39:36,720
just everybody respects everybody's

1058
00:39:40,790 --> 00:39:38,640
other belief even though it's not a

1059
00:39:43,670 --> 00:39:40,800
religion there's religion like aspects

1060
00:39:46,150 --> 00:39:43,680
to it i i guess you could argue

1061
00:39:48,230 --> 00:39:46,160
something along those lines but

1062
00:39:49,430 --> 00:39:48,240
i obviously can't because i'm not very

1063
00:39:50,950 --> 00:39:49,440

bright

1064

00:39:52,470 --> 00:39:50,960

but basically at the end of the day as

1065

00:39:54,950 --> 00:39:52,480

long as you don't call someone who's not

1066

00:39:56,630 --> 00:39:54,960

spike spike you'll be okay

1067

00:39:57,349 --> 00:39:56,640

which just happened earlier um there was

1068

00:40:32,950 --> 00:39:57,359

a

1069

00:40:34,630 --> 00:40:32,960

one from the movie bought it in the

1070

00:40:35,990 --> 00:40:34,640

foyer on the way out and have like five

1071

00:40:37,030 --> 00:40:36,000

or six people comment on it normally

1072

00:40:38,390 --> 00:40:37,040

you'd wear it and people would think

1073

00:40:39,910 --> 00:40:38,400

like it might be a description of a body

1074

00:40:41,750 --> 00:40:39,920

part or something like that you bought

1075

00:40:43,910 --> 00:40:41,760

that when spaceballs came out the movie

1076
00:40:45,910 --> 00:40:43,920
really yeah because and the way they did

1077
00:40:47,190 --> 00:40:45,920
all the spaceballs merchandise is anyone

1078
00:40:49,670 --> 00:40:47,200
who's seen the movie the mill brooks

1079
00:40:51,190 --> 00:40:49,680
movie um basically they're making jokes

1080
00:40:53,109 --> 00:40:51,200
about merchandise all the way through

1081
00:40:54,710 --> 00:40:53,119
and when you went into the movie the

1082
00:40:56,309 --> 00:40:54,720
merchandise area was hidden so you

1083
00:40:57,910 --> 00:40:56,319
didn't realize it was there so the joke

1084
00:40:59,750 --> 00:40:57,920
wasn't and then when you came out you

1085
00:41:01,430 --> 00:40:59,760
see a great big spaceballs merchandise

1086
00:41:03,030 --> 00:41:01,440
thing so they didn't blow the gag early

1087
00:41:04,870 --> 00:41:03,040
on it was quite well done and all i

1088
00:41:06,630 --> 00:41:04,880

could afford was the badge well you did

1089

00:41:08,950 --> 00:41:06,640

well and i'm i'm glad to see you still

1090

00:41:12,230 --> 00:41:08,960

have it because i have seen no other

1091

00:41:13,349 --> 00:41:12,240

space balls memorabilia here at all

1092

00:41:15,109 --> 00:41:13,359

and uh

1093

00:41:16,790 --> 00:41:15,119

i think i like baiting richard questions

1094

00:41:19,750 --> 00:41:16,800

like this so you're saying that there's

1095

00:41:21,510 --> 00:41:19,760

more um scientific thinking and reason

1096

00:41:23,190 --> 00:41:21,520

at a sci-fi convention than there is at

1097

00:41:24,870 --> 00:41:23,200

a new age convention

1098

00:41:27,910 --> 00:41:24,880

what i'm saying is that there's more

1099

00:41:29,910 --> 00:41:27,920

scientific thinking and reason

1100

00:41:31,349 --> 00:41:29,920

yes absolutely of course absolutely i

1101

00:41:33,030 --> 00:41:31,359

mean again a lot of these people are

1102

00:41:35,430 --> 00:41:33,040

probably geeky nerds a lot of them are

1103

00:41:36,790 --> 00:41:35,440

housewives and house and husbands and

1104

00:41:39,190 --> 00:41:36,800

sons and daughters and all the rest of

1105

00:41:41,750 --> 00:41:39,200

it but they're all in just enjoying

1106

00:41:43,270 --> 00:41:41,760

their escapism their fantasy and look

1107

00:41:44,870 --> 00:41:43,280

one final point i'd like to make here

1108

00:41:46,470 --> 00:41:44,880

because there are many feminists who

1109

00:41:48,550 --> 00:41:46,480

listen to the show that are sometimes a

1110

00:41:50,470 --> 00:41:48,560

little bit annoyed with the fact that a

1111

00:41:51,910 --> 00:41:50,480

lot of the uh not just the skeptical

1112

00:41:53,589 --> 00:41:51,920

guys but the uh

1113

00:41:54,710 --> 00:41:53,599

the fan base they get quite excited when

1114

00:41:55,750 --> 00:41:54,720

women get involved in the whole thing

1115

00:41:57,750 --> 00:41:55,760

because they go hey there's women

1116

00:41:59,829 --> 00:41:57,760

involved you know and as the whole eye

1117

00:42:01,109 --> 00:41:59,839

candy issue which is the problem and

1118

00:42:02,390 --> 00:42:01,119

that's come up once or twice when i've

1119

00:42:03,349 --> 00:42:02,400

been talking to people here guys talk

1120

00:42:04,790 --> 00:42:03,359

they're really great that the women are

1121

00:42:05,990 --> 00:42:04,800

coming along here in the wild costumes

1122

00:42:07,510 --> 00:42:06,000

and i've had to correct them and say

1123

00:42:08,790 --> 00:42:07,520

well it's great that the women are

1124

00:42:10,950 --> 00:42:08,800

coming along because you want everybody

1125

00:42:12,470 --> 00:42:10,960

to be part of this community and um i

1126
00:42:13,670 --> 00:42:12,480
could see why feminists would get to be

1127
00:42:15,829 --> 00:42:13,680
annoyed by that do you think the

1128
00:42:18,790 --> 00:42:15,839
feminists just being pedantic richard i

1129
00:42:20,790 --> 00:42:18,800
think that is a problem well

1130
00:42:23,270 --> 00:42:20,800
that's a really good question because

1131
00:42:25,109 --> 00:42:23,280
just before on our way here to um get

1132
00:42:27,750 --> 00:42:25,119
these glorious um

1133
00:42:30,150 --> 00:42:27,760
soggy chips or eating i noticed a couple

1134
00:42:32,309 --> 00:42:30,160
of guys dressed up from the movie 600.

1135
00:42:34,390 --> 00:42:32,319
it was a 300. you're the spartan

1136
00:42:36,710 --> 00:42:34,400
warriors oh the hot spartans yeah now

1137
00:42:38,710 --> 00:42:36,720
there are some buff guys wearing hardly

1138
00:42:40,470 --> 00:42:38,720

anything at all and then you walk a few

1139

00:42:43,430 --> 00:42:40,480

pieces on and you see some women dressed

1140

00:42:44,870 --> 00:42:43,440

up like vampires wearing short shorts

1141

00:42:46,870 --> 00:42:44,880

that are shorter than the shorts you've

1142

00:42:48,870 --> 00:42:46,880

ever seen in your life so

1143

00:42:49,589 --> 00:42:48,880

i think it goes both ways i really do

1144

00:42:51,030 --> 00:42:49,599

yes

1145

00:42:53,270 --> 00:42:51,040

there's some eye candy around here but

1146

00:42:54,309 --> 00:42:53,280

there's male and female eye candy

1147

00:42:57,910 --> 00:42:54,319

okay

1148

00:43:01,030 --> 00:42:57,920

out and i bumped into a couple of actual

1149

00:43:03,270 --> 00:43:01,040

skeptic zone listeners as far as we know

1150

00:43:04,710 --> 00:43:03,280

both of them are here um now uh

1151
00:43:07,109 --> 00:43:04,720
now is there something we can do with

1152
00:43:08,390 --> 00:43:07,119
the show to make it any better

1153
00:43:13,030 --> 00:43:08,400
um

1154
00:43:16,950 --> 00:43:15,030
that's a very abc question to ask people

1155
00:43:18,230 --> 00:43:16,960
a tough question um what's your favorite

1156
00:43:19,829 --> 00:43:18,240
bit of it

1157
00:43:21,750 --> 00:43:19,839
oh man

1158
00:43:23,750 --> 00:43:21,760
this is this is the point where i admit

1159
00:43:24,870 --> 00:43:23,760
to just re-watch re-listening to 300

1160
00:43:26,309 --> 00:43:24,880
episodes of skeptics guide to the

1161
00:43:28,069 --> 00:43:26,319
universe and now i'm desperately trying

1162
00:43:30,790 --> 00:43:28,079
to scroll back

1163
00:43:33,190 --> 00:43:30,800

i'm like right no wrong skeptics

1164

00:43:36,069 --> 00:43:33,200

we don't do factual fiction no we don't

1165

00:43:37,109 --> 00:43:36,079

do the fact of fiction yeah that's true

1166

00:43:38,550 --> 00:43:37,119

is there something you'd like to see us

1167

00:43:40,230 --> 00:43:38,560

get involved in the show or something or

1168

00:43:41,910 --> 00:43:40,240

is it or actually

1169

00:43:43,109 --> 00:43:41,920

have we actually taught you anything at

1170

00:43:45,829 --> 00:43:43,119

all is there anything you've learned

1171

00:43:47,510 --> 00:43:45,839

from me is something um all around i

1172

00:43:50,790 --> 00:43:47,520

live in lang cove and there's ear

1173

00:43:52,390 --> 00:43:50,800

candling signs up everywhere and i i

1174

00:43:54,230 --> 00:43:52,400

can't get groceries without walking past

1175

00:43:55,829 --> 00:43:54,240

ear candling signs is is there anything

1176

00:43:57,349 --> 00:43:55,839

we can do about this

1177

00:43:58,150 --> 00:43:57,359

funny you should ask funny you should

1178

00:43:59,670 --> 00:43:58,160

ask

1179

00:44:02,150 --> 00:43:59,680

skeptic man

1180

00:44:03,750 --> 00:44:02,160

a skeptic lady dr rachie is about to do

1181

00:44:05,430 --> 00:44:03,760

a report for today tonight on ear

1182

00:44:07,510 --> 00:44:05,440

candles

1183

00:44:09,109 --> 00:44:07,520

that's that's really grand so like most

1184

00:44:10,390 --> 00:44:09,119

skeptics have their own woo that's yours

1185

00:44:11,829 --> 00:44:10,400

that's the one that annoys you the most

1186

00:44:13,589 --> 00:44:11,839

is you can well what about setting fire

1187

00:44:15,190 --> 00:44:13,599

to your bum that's just as relevant the

1188

00:44:16,550 --> 00:44:15,200

one that annoys me the most is applied

1189

00:44:20,069 --> 00:44:16,560

kinesiology but i have a bit of a

1190

00:44:21,829 --> 00:44:20,079

personal history with that one because

1191

00:44:24,470 --> 00:44:21,839

okay wasn't your

1192

00:44:26,309 --> 00:44:24,480

no no my orthodontist has irredology and

1193

00:44:28,950 --> 00:44:26,319

applied kinesiology but my mother just

1194

00:44:31,670 --> 00:44:28,960

applied kinesiology as well oh must be

1195

00:44:33,270 --> 00:44:31,680

great at christmas dinner oh yeah

1196

00:44:35,510 --> 00:44:33,280

oh here's my daughter the skip that she

1197

00:44:37,190 --> 00:44:35,520

thinks i'm a wacko she thinks i'm a no

1198

00:44:38,790 --> 00:44:37,200

she actually hasn't said it outright yet

1199

00:44:42,230 --> 00:44:38,800

it's like oh you think vaccines work i'm

1200

00:44:44,550 --> 00:44:42,240

like oh yeah oh my god oh boy

1201
00:44:45,910 --> 00:44:44,560
the vaccines in secrets

1202
00:44:48,069 --> 00:44:45,920
pretty much

1203
00:44:49,270 --> 00:44:48,079
now you know you know

1204
00:44:50,870 --> 00:44:49,280
i'm a bit of a believer in the crackpot

1205
00:44:53,670 --> 00:44:50,880
when someone says something like oh you

1206
00:44:55,589 --> 00:44:53,680
think vaccines work it's like oh it's

1207
00:44:57,430 --> 00:44:55,599
like oh yes yes

1208
00:44:59,589 --> 00:44:57,440
and you know what that gravity thing is

1209
00:45:01,829 --> 00:44:59,599
really catching on as well gravity is a

1210
00:45:04,150 --> 00:45:01,839
real thing that she believes in gravity

1211
00:45:05,990 --> 00:45:04,160
so it's it's just vaccines like it's

1212
00:45:08,230 --> 00:45:06,000
just the germ theory of medicine she

1213
00:45:10,390 --> 00:45:08,240

doesn't believe in gravity is fine

1214

00:45:11,750 --> 00:45:10,400

now the point that i was making we

1215

00:45:13,750 --> 00:45:11,760

mentioned with richard earlier is that

1216

00:45:16,230 --> 00:45:13,760

there possibly is more scientific

1217

00:45:18,150 --> 00:45:16,240

thinking and reason going on here at a

1218

00:45:21,270 --> 00:45:18,160

sci-fi convention than you would find at

1219

00:45:23,030 --> 00:45:21,280

a new age convention perhaps um yes oh

1220

00:45:25,030 --> 00:45:23,040

my goodness i've been to in one of the

1221

00:45:27,270 --> 00:45:25,040

new age like the mind body wallet thing

1222

00:45:30,309 --> 00:45:27,280

that was at botany bay before and it's

1223

00:45:33,750 --> 00:45:30,319

just crystals and incense and

1224

00:45:35,589 --> 00:45:33,760

make yourself feel better when no

1225

00:45:38,069 --> 00:45:35,599

they're just there they are selling

1226

00:45:39,510 --> 00:45:38,079

you know un you know uh swords and

1227

00:45:41,190 --> 00:45:39,520

different shapes for a few few hundred

1228

00:45:43,030 --> 00:45:41,200

dollars a piece that look like they'll

1229

00:45:44,630 --> 00:45:43,040

fall apart the first time you know you

1230

00:45:46,069 --> 00:45:44,640

unsheath them too hard

1231

00:45:47,910 --> 00:45:46,079

and people are still buying them so i

1232

00:45:49,910 --> 00:45:47,920

don't know but no one intends you to use

1233

00:45:50,550 --> 00:45:49,920

them in a battle

1234

00:45:54,150 --> 00:45:50,560

no

1235

00:45:55,670 --> 00:45:54,160

that's right i think in a fake cosplay

1236

00:45:57,109 --> 00:45:55,680

battle maybe yeah and there's not

1237

00:45:58,550 --> 00:45:57,119

probably planning

1238

00:46:00,150 --> 00:45:58,560

there's a few sci-fi things about but

1239

00:46:02,550 --> 00:46:00,160

not as many as i kind of expected

1240

00:46:04,390 --> 00:46:02,560

there's no uh

1241

00:46:05,430 --> 00:46:04,400

no discovery channel or any of that kind

1242

00:46:06,630 --> 00:46:05,440

of business

1243

00:46:07,990 --> 00:46:06,640

oh there's sci-fi channels over there

1244

00:46:09,670 --> 00:46:08,000

but look i'll give you the uh the

1245

00:46:11,430 --> 00:46:09,680

farewell greeting from here it fits in

1246

00:46:12,870 --> 00:46:11,440

it's uh live long and need some jelly

1247

00:46:14,630 --> 00:46:12,880

babies that get stocked who and star

1248

00:46:17,030 --> 00:46:14,640

trek in together

1249

00:46:37,190 --> 00:46:17,040

see you later guys

1250

00:46:40,710 --> 00:46:39,190

thank you for listening to the skeptic

1251

00:46:43,990 --> 00:46:40,720

zone right that's it

1252

00:46:46,950 --> 00:46:44,000

let me see there's my

1253

00:46:49,270 --> 00:46:46,960

suitcase back here yeah passport

1254

00:46:50,870 --> 00:46:49,280

check um

1255

00:46:52,630 --> 00:46:50,880

trousers

1256

00:46:55,510 --> 00:46:52,640

toothbrush

1257

00:46:59,349 --> 00:46:55,520

mustache what's this uh

1258

00:47:02,150 --> 00:46:59,359

photo frogs oh skeptics badges oh it's

1259

00:47:03,750 --> 00:47:02,160

all falling up i'm ready i'm gonna zip

1260

00:47:05,510 --> 00:47:03,760

up that bag

1261

00:47:07,030 --> 00:47:05,520

in a minute after i clean up the mess

1262

00:47:10,069 --> 00:47:07,040

and head straight out for the airport

1263

00:47:11,990 --> 00:47:10,079

catch that plane to tam las vegas hope

1264

00:47:14,069 --> 00:47:12,000

to see you there and we'll be getting

1265

00:47:17,430 --> 00:47:14,079

lots of great reports lots of interviews

1266

00:47:18,710 --> 00:47:17,440

for upcoming episodes of the skeptic

1267

00:47:20,790 --> 00:47:18,720

zone

1268

00:47:23,190 --> 00:47:20,800

but until then

1269

00:47:24,790 --> 00:47:23,200

this is richard saunders signing off as

1270

00:47:30,390 --> 00:47:24,800

he runs out the door

1271

00:47:33,589 --> 00:47:32,069

you've been listening to the skeptic

1272

00:47:38,390 --> 00:47:33,599

zone