

1
00:00:06,139 --> 00:00:13,689
welcome to the skeptic zone the podcast

2
00:00:09,109 --> 00:00:13,689
from Australia for science and reason

3
00:00:24,640 --> 00:00:30,919
hello and welcome to the skeptics on for

4
00:00:27,559 --> 00:00:33,560
the ninth of November 2013 Richard

5
00:00:30,919 --> 00:00:37,719
Saunders here with you coming to you

6
00:00:33,560 --> 00:00:41,329
live from the Pitt Street Mall in Sydney

7
00:00:37,719 --> 00:00:43,370
and vaseline more there's a busker down

8
00:00:41,329 --> 00:00:45,679
there about to play another number I'm

9
00:00:43,369 --> 00:00:47,238
on my way this afternoon to skeptics in

10
00:00:45,679 --> 00:00:50,119
the pub here in Sydney our monthly

11
00:00:47,238 --> 00:00:52,159
meeting it's always great fun to go to

12
00:00:50,119 --> 00:00:54,378
skeptics in the pub and I'll be playing

13
00:00:52,159 --> 00:00:57,409
the part of maynard doing some

14
00:00:54,378 --> 00:00:59,628
interviews with pub goers just have to

15
00:00:57,409 --> 00:01:02,058
think of a topic you're coming up on

16
00:00:59,628 --> 00:01:04,518
this week's show it is may not in fact

17
00:01:02,058 --> 00:01:07,730
maynard's going to be interviewing dr.

18
00:01:04,519 --> 00:01:10,280
Rob Morrison a great skeptic a great

19
00:01:07,730 --> 00:01:11,600
scientist and people in Australia will

20
00:01:10,280 --> 00:01:14,689
certainly remember him as one of the

21
00:01:11,599 --> 00:01:16,629
presenters of the curiosity show the

22
00:01:14,688 --> 00:01:20,899
curiosity show was a brilliant

23
00:01:16,629 --> 00:01:22,629
children's science show in the 1970s

24
00:01:20,900 --> 00:01:26,200
1980s

25
00:01:22,629 --> 00:01:28,420
and recently Robin Dean huntin from the

26
00:01:26,200 --> 00:01:31,750
show have been putting up hundreds of

27
00:01:28,420 --> 00:01:33,640
clips onto YouTube so now children all

28
00:01:31,750 --> 00:01:36,609
over the world can learn how to make

29

00:01:33,640 --> 00:01:38,670
things do things how things work it's

30
00:01:36,609 --> 00:01:40,868
just a wonderful thing they're done

31
00:01:38,670 --> 00:01:43,000
Maynard's going to chat to rob morrison

32
00:01:40,868 --> 00:01:45,840
all about that and what it was like to

33
00:01:43,000 --> 00:01:48,450
put together a children's science show

34
00:01:45,840 --> 00:01:52,240
that's coming up at the top of the show

35
00:01:48,450 --> 00:01:54,399
after that I'm going to be relaying some

36
00:01:52,239 --> 00:01:57,489
information from the government about

37
00:01:54,399 --> 00:01:58,868
watching out for scams now recently in

38
00:01:57,489 --> 00:02:00,699
this country we had the Melbourne Cup

39
00:01:58,868 --> 00:02:02,228
the biggest horse race in the country

40
00:02:00,700 --> 00:02:04,329
where the whole nation stops in bits on

41
00:02:02,228 --> 00:02:07,618
horses where the government put out some

42
00:02:04,329 --> 00:02:09,549
information via their scam watch service

43
00:02:07,618 --> 00:02:11,348

and I thought it was very good

44

00:02:09,549 --> 00:02:14,290

information so i'll be reading that out

45

00:02:11,348 --> 00:02:15,909

a bit later on watch out for scams also

46

00:02:14,289 --> 00:02:18,789

coming up a few more announcements from

47

00:02:15,909 --> 00:02:21,609

me later in the show those interviews

48

00:02:18,789 --> 00:02:24,400

from skeptics in the pub but right now I

49

00:02:21,610 --> 00:02:26,700

think I'll run around the corner see if

50

00:02:24,400 --> 00:02:28,959

I can't find myself a nice little

51

00:02:26,699 --> 00:02:33,268

California roll while I'm doing that I

52

00:02:28,959 --> 00:02:33,269

hope you enjoy the skeptic zone

53

00:02:44,280 --> 00:02:51,990

here's my not spooky action at the

54

00:02:49,479 --> 00:02:51,989

distance

55

00:02:52,549 --> 00:02:57,030

ladies and gentlemen as a kid you often

56

00:02:54,840 --> 00:02:59,039

mucking around in front the TV going ah

57

00:02:57,030 --> 00:03:01,590

yeah cartoons but every once in a while

58
00:02:59,039 --> 00:03:03,298
science would come on the television and

59
00:03:01,590 --> 00:03:06,479
this is one of the guys who brought that

60
00:03:03,299 --> 00:03:08,340
to you Rob Morrison dr. Rob Morrison how

61
00:03:06,479 --> 00:03:10,318
do you do how do you do what have you

62
00:03:08,340 --> 00:03:13,170
got a doctorate in by the way Rob uh

63
00:03:10,318 --> 00:03:15,000
well originally was in brain anatomy and

64
00:03:13,169 --> 00:03:16,798
physiology but I went back to the first

65
00:03:15,000 --> 00:03:19,739
love of natural history after that oh

66
00:03:16,799 --> 00:03:22,349
and tell me the curiosity show is a

67
00:03:19,739 --> 00:03:24,599
legend in Australia how did you get such

68
00:03:22,348 --> 00:03:29,429
an intelligent scientific thing on the

69
00:03:24,598 --> 00:03:32,098
air well it was a set of them I'm trying

70
00:03:29,430 --> 00:03:34,590
to keep it brief but essentially it

71
00:03:32,098 --> 00:03:38,189
happened because way back in nineteen

72
00:03:34,590 --> 00:03:40,109
seventies I suppose or 72 the broadcast

73
00:03:38,189 --> 00:03:42,568
control board had a children's

74
00:03:40,109 --> 00:03:44,730
programming committee they suddenly told

75
00:03:42,568 --> 00:03:46,798
all the commercial channels that they

76
00:03:44,729 --> 00:03:49,378
would no longer be allowed to get away

77
00:03:46,799 --> 00:03:51,780
with just making school programs for

78
00:03:49,378 --> 00:03:55,108
little ease they had to start making

79
00:03:51,780 --> 00:03:57,329
programs for children of school going

80
00:03:55,109 --> 00:03:59,939
age and put them on in out of school

81
00:03:57,329 --> 00:04:01,469
hours so suddenly all these television

82
00:03:59,939 --> 00:04:03,509
stations were hit with this requirement

83
00:04:01,469 --> 00:04:05,729
to make programs and they knew nothing

84
00:04:03,509 --> 00:04:08,388
about them except in our Adelaide we'd

85
00:04:05,729 --> 00:04:12,388
always had this kind of convention that

86

00:04:08,389 --> 00:04:14,280
let me channel 9 did that anyway so they

87
00:04:12,389 --> 00:04:16,620
had a head start and that's where

88
00:04:14,280 --> 00:04:18,209
curiosity show is born actually was born

89
00:04:16,620 --> 00:04:20,310
as an offshoot out of heart free beer

90
00:04:18,209 --> 00:04:22,199
believe it or not also as a small

91
00:04:20,310 --> 00:04:24,839
segment on Humphrey beer that's the

92
00:04:22,199 --> 00:04:26,879
large bear with no pants well it wasn't

93
00:04:24,839 --> 00:04:28,888
so much a small segment it was a new

94
00:04:26,879 --> 00:04:31,319
show but because they didn't quite know

95
00:04:28,889 --> 00:04:33,538
how to do it they kind of put Humphrey

96
00:04:31,319 --> 00:04:36,839
in it and then they got people like me

97
00:04:33,538 --> 00:04:39,449
and then happen to try and do stuff the

98
00:04:36,839 --> 00:04:41,459
13 year olds well this idiotic beer was

99
00:04:39,449 --> 00:04:43,470
leaping around just stick elating cuz he

100
00:04:41,459 --> 00:04:46,049

can't talk but did you three year old

101

00:04:43,470 --> 00:04:48,539

you try to explain why although the bear

102

00:04:46,050 --> 00:04:51,329

had evolved to wear clothing that the

103

00:04:48,538 --> 00:04:54,329

bear still refused to wear pants hahaha

104

00:04:51,329 --> 00:04:56,310

I can't speak for the beer I spent a

105

00:04:54,329 --> 00:04:58,469

year getting the beer out of a show ah

106

00:04:56,310 --> 00:05:01,439

the bear but he didn't he didn't belong

107

00:04:58,470 --> 00:05:03,450

in a 30 year old I was in fact I

108

00:05:01,439 --> 00:05:05,249

think the only person ever to get him to

109

00:05:03,449 --> 00:05:08,519

speak on television

110

00:05:05,249 --> 00:05:09,989

always never know story and yes and I

111

00:05:08,519 --> 00:05:13,228

guess what he said probably wasn't all

112

00:05:09,988 --> 00:05:15,448

that Kitty friendly it wasn't because of

113

00:05:13,228 --> 00:05:17,728

involved a Van de Graaff generator it

114

00:05:15,449 --> 00:05:19,348

was an accident but he was doing a lot

115
00:05:17,728 --> 00:05:21,868
of pointing a bit close to this thing

116
00:05:19,348 --> 00:05:24,868
and I let him go there's like there's a

117
00:05:21,869 --> 00:05:27,209
crack like a rifle shot and I could blue

118
00:05:24,869 --> 00:05:29,609
fire about a metre long leptin to the

119
00:05:27,209 --> 00:05:32,699
outstretched digit of this unhappy bear

120
00:05:29,608 --> 00:05:35,038
you did a quick 360 and pronounced one

121
00:05:32,699 --> 00:05:37,408
single muffled epithet from inside the

122
00:05:35,038 --> 00:05:39,149
suit and I think that's the only word he

123
00:05:37,408 --> 00:05:41,009
ever said on television I think we all

124
00:05:39,149 --> 00:05:43,499
wanted to do that to Humphrey bear and

125
00:05:41,009 --> 00:05:45,749
and for overseas lessness for what years

126
00:05:43,499 --> 00:05:48,889
did the curiosity show run nationally in

127
00:05:45,749 --> 00:05:53,909
Australia I had ran in Australia from

128
00:05:48,889 --> 00:05:56,249
1972 to 1990 and it was brought up by

129
00:05:53,908 --> 00:05:58,139
the Germans and dubbed into German which

130
00:05:56,249 --> 00:06:00,269
was interesting that what you're still

131
00:05:58,139 --> 00:06:03,239
speaking fluent German which I can't do

132
00:06:00,269 --> 00:06:06,269
and it was in Europe on about 14

133
00:06:03,238 --> 00:06:09,149
channels for I think about six years and

134
00:06:06,269 --> 00:06:11,069
quite a lot of asia-pacific stations

135
00:06:09,149 --> 00:06:14,298
bought it as well so I'm not quite sure

136
00:06:11,069 --> 00:06:17,429
where it was on different stages of the

137
00:06:14,298 --> 00:06:20,818
of the cycle but it was incapable for a

138
00:06:17,428 --> 00:06:24,359
while too but certainly it's its life in

139
00:06:20,819 --> 00:06:26,309
Australia was 18 years and it was

140
00:06:24,360 --> 00:06:28,348
basically doing science experiments

141
00:06:26,309 --> 00:06:30,419
talking to kids about science getting

142
00:06:28,348 --> 00:06:33,058
them excited and what age group were you

143

00:06:30,418 --> 00:06:35,788
mainly going for well we were really

144
00:06:33,059 --> 00:06:38,338
again it had a sort of it had about

145
00:06:35,788 --> 00:06:40,218
three three iterations the when it

146
00:06:38,338 --> 00:06:43,319
started was this offshoot of Humphrey

147
00:06:40,218 --> 00:06:45,778
then it became an hour-long magazine

148
00:06:43,319 --> 00:06:48,749
program sort of all things to all people

149
00:06:45,778 --> 00:06:51,868
for children I hated that program it had

150
00:06:48,749 --> 00:06:53,879
several presenters in it but I was very

151
00:06:51,869 --> 00:06:55,529
unhappy with it and Dean was overseas at

152
00:06:53,879 --> 00:06:56,999
that time and I wrote to him and said I

153
00:06:55,528 --> 00:06:59,308
was going to get out of it he said well

154
00:06:56,999 --> 00:07:01,769
hold on till I get back and we actually

155
00:06:59,309 --> 00:07:04,349
put to the management that we thought it

156
00:07:01,769 --> 00:07:06,598
should half hour show with us doing

157
00:07:04,348 --> 00:07:08,188

science and the other presenters could

158

00:07:06,598 --> 00:07:10,889

then go on to the magazine show which

159

00:07:08,189 --> 00:07:13,409

was also on called channel niners and to

160

00:07:10,889 --> 00:07:16,050

our surprise and pleasure they actually

161

00:07:13,408 --> 00:07:18,110

did that and that's where we started the

162

00:07:16,050 --> 00:07:20,240

show that fortunately everyone remembers

163

00:07:18,110 --> 00:07:22,250

and that's where he started getting the

164

00:07:20,240 --> 00:07:24,379

overseas sales and the Penguins and the

165

00:07:22,250 --> 00:07:26,089

pre shanice and things of that kind so

166

00:07:24,379 --> 00:07:27,920

it was actually your you can actually

167

00:07:26,089 --> 00:07:30,739

then make it a show with our focus and

168

00:07:27,920 --> 00:07:32,960

direction and philosophy which you

169

00:07:30,740 --> 00:07:35,660

couldn't do in a bigger under all things

170

00:07:32,959 --> 00:07:38,209

to all people kind of show so at that

171

00:07:35,660 --> 00:07:39,410

stage we were after I suppose 10 to 13

172
00:07:38,209 --> 00:07:41,899
year olds around about that age group

173
00:07:39,410 --> 00:07:43,370
but we know it was a lot broader because

174
00:07:41,899 --> 00:07:46,250
that's the beauty of science I mean it

175
00:07:43,370 --> 00:07:49,579
doesn't a rainbow is fascinating with

176
00:07:46,250 --> 00:07:52,220
you 5 or 50 so because you're dealing

177
00:07:49,579 --> 00:07:54,469
with science and scientific phenomena

178
00:07:52,220 --> 00:07:56,240
you really had quite a large audience

179
00:07:54,470 --> 00:08:00,050
but we were aiming for that at that age

180
00:07:56,240 --> 00:08:02,180
range dr. Morrison with the philosophy

181
00:08:00,050 --> 00:08:04,100
of children's television shows where do

182
00:08:02,180 --> 00:08:05,629
you think they go wrong when they try

183
00:08:04,100 --> 00:08:07,250
and bring science into it where do they

184
00:08:05,629 --> 00:08:10,399
make the mistake to either make it

185
00:08:07,250 --> 00:08:12,949
either too high or too stupid where do

186
00:08:10,399 --> 00:08:16,250
they usually go wrong well I don't know

187
00:08:12,949 --> 00:08:18,439
that they always do and they've been

188
00:08:16,250 --> 00:08:20,779
some terrific programs for children not

189
00:08:18,439 --> 00:08:23,449
many of them have been science but Owen

190
00:08:20,779 --> 00:08:27,139
scope is on now and I think it's a great

191
00:08:23,449 --> 00:08:30,800
little program I think though speaking

192
00:08:27,139 --> 00:08:34,039
generally and not just for children well

193
00:08:30,800 --> 00:08:36,169
then I stay with children I spent I was

194
00:08:34,039 --> 00:08:38,120
sent overseas to look at American

195
00:08:36,169 --> 00:08:40,639
children's television programs and it

196
00:08:38,120 --> 00:08:42,229
was they were horrified to think that a

197
00:08:40,639 --> 00:08:44,600
couple of old blokes would get up and

198
00:08:42,229 --> 00:08:48,290
talk directly to the camera which Dean

199
00:08:44,600 --> 00:08:50,600
and I did works very well here but in

200

00:08:48,289 --> 00:08:53,659
America you always had to have a cast of

201
00:08:50,600 --> 00:08:55,820
children and they were given don't lines

202
00:08:53,659 --> 00:08:58,639
and they were sort of actors and you

203
00:08:55,820 --> 00:09:01,400
always had to have black hispanic white

204
00:08:58,639 --> 00:09:03,169
asian so you're pretty limited in the

205
00:09:01,399 --> 00:09:05,720
plots you could get away with people are

206
00:09:03,169 --> 00:09:08,769
on television who are speaking with

207
00:09:05,720 --> 00:09:11,330
authority who plainly know their subject

208
00:09:08,769 --> 00:09:12,949
somehow cut through the screen if you

209
00:09:11,330 --> 00:09:15,500
look at Attenborough people love atma

210
00:09:12,950 --> 00:09:17,750
because he knows his stuff they can get

211
00:09:15,500 --> 00:09:19,460
other presenters who has sort of engaged

212
00:09:17,750 --> 00:09:22,129
because they might look terrific or

213
00:09:19,460 --> 00:09:23,660
sound wonderful or might be flavor of

214
00:09:22,129 --> 00:09:28,159

the month they put them in as a front

215

00:09:23,659 --> 00:09:30,889

person to spout science and it cuts no

216

00:09:28,159 --> 00:09:32,088

ice at all so children are pretty clear

217

00:09:30,889 --> 00:09:34,159

they can pick somebody

218

00:09:32,089 --> 00:09:36,559

you've got the authority to speak about

219

00:09:34,159 --> 00:09:39,289

what they're saying and you can sense

220

00:09:36,558 --> 00:09:40,639

that and even you've been in there were

221

00:09:39,289 --> 00:09:41,838

some subjects I wouldn't handle they

222

00:09:40,639 --> 00:09:43,999

were science but I didn't feel

223

00:09:41,839 --> 00:09:47,300

comfortable they didn't feel like me so

224

00:09:43,999 --> 00:09:49,399

I wouldn't do them and then ISIL divided

225

00:09:47,299 --> 00:09:52,549

it he was more physical science and

226

00:09:49,399 --> 00:09:55,909

machinery and geology whereas I was

227

00:09:52,549 --> 00:09:58,159

animals arts crafts music but all areas

228

00:09:55,909 --> 00:09:59,929

where we felt comfortable but put me

229
00:09:58,159 --> 00:10:02,528
doing one of Dean Sigma's and I think

230
00:09:59,929 --> 00:10:05,539
you would have detected the same kind of

231
00:10:02,528 --> 00:10:08,448
if it's hard to define it but it's a

232
00:10:05,539 --> 00:10:10,338
sense of lack of authority about what

233
00:10:08,448 --> 00:10:13,128
you're saying and I think children can

234
00:10:10,339 --> 00:10:15,620
pick that and as someone with decades of

235
00:10:13,129 --> 00:10:18,170
experience in the TV industry what do

236
00:10:15,620 --> 00:10:20,328
you reckon is the worst television show

237
00:10:18,169 --> 00:10:23,149
for children you've ever seen come on

238
00:10:20,328 --> 00:10:24,438
come on mr. dr. Morrison now you you are

239
00:10:23,149 --> 00:10:26,448
allowed you are allowed to include my

240
00:10:24,438 --> 00:10:29,088
own children's game show mine twist

241
00:10:26,448 --> 00:10:33,198
which is the finest piece of channel 10

242
00:10:29,089 --> 00:10:36,319
production ever made during the 90s I I

243
00:10:33,198 --> 00:10:37,998
wasn't fortunate enough to see that look

244
00:10:36,318 --> 00:10:40,128
I really couldn't come in because a lot

245
00:10:37,999 --> 00:10:41,928
of these things I've seen in pilot forum

246
00:10:40,129 --> 00:10:43,819
and they you know they might have got a

247
00:10:41,928 --> 00:10:46,490
pile it up and I never went to where or

248
00:10:43,818 --> 00:10:49,248
if it did it only went there once but I

249
00:10:46,490 --> 00:10:52,999
think speaking generically I hate shows

250
00:10:49,249 --> 00:10:55,970
the talk down to children I think shows

251
00:10:52,999 --> 00:10:57,769
that sort of have presenters who think

252
00:10:55,970 --> 00:11:00,769
they're talking to a crowd and they talk

253
00:10:57,769 --> 00:11:02,688
to the girls and boys out there they

254
00:11:00,769 --> 00:11:04,549
lose them immediately because even if

255
00:11:02,688 --> 00:11:06,110
you're in a crowd if you're watching

256
00:11:04,549 --> 00:11:08,149
television you're watching it as an

257

00:11:06,110 --> 00:11:10,909
individual so you need somebody to talk

258
00:11:08,149 --> 00:11:13,370
to you as an individual I hate the shows

259
00:11:10,909 --> 00:11:15,438
which really reveal that there are

260
00:11:13,370 --> 00:11:18,139
presenters who are doing children shows

261
00:11:15,438 --> 00:11:20,990
but for them it's a stepping stone to

262
00:11:18,139 --> 00:11:22,579
real telly I like the presenters who are

263
00:11:20,990 --> 00:11:24,649
quite happy to be doing children shows

264
00:11:22,578 --> 00:11:26,989
and don't use it as a stepping stone to

265
00:11:24,649 --> 00:11:29,089
something else and you can only tell

266
00:11:26,990 --> 00:11:30,678
them to leave I think there are a whole

267
00:11:29,089 --> 00:11:32,689
lot of things you look for you normally

268
00:11:30,678 --> 00:11:34,100
want to see people having fun and kids

269
00:11:32,688 --> 00:11:36,649
want to see people having fun and

270
00:11:34,100 --> 00:11:38,600
enjoying what they're doing yeah I think

271
00:11:36,649 --> 00:11:41,120

that's right and people say you can't

272

00:11:38,600 --> 00:11:44,269

define a good teacher but I think you

273

00:11:41,120 --> 00:11:45,570

can expect certain things one a good

274

00:11:44,269 --> 00:11:48,060

teacher is

275

00:11:45,570 --> 00:11:49,500

go to another subject and that partly

276

00:11:48,059 --> 00:11:51,539

goes back to that authority I talked

277

00:11:49,500 --> 00:11:53,519

about and the freedom to move around in

278

00:11:51,539 --> 00:11:55,079

that subject and experiment and go off

279

00:11:53,519 --> 00:11:57,899

in tangents knowing you've got control

280

00:11:55,080 --> 00:12:00,870

of it and the other thing is it's got to

281

00:11:57,899 --> 00:12:02,579

matter to them that other people find

282

00:12:00,870 --> 00:12:04,740

the delight in their subject that they

283

00:12:02,580 --> 00:12:06,270

do and you'll see that on all the good

284

00:12:04,740 --> 00:12:09,360

teachers they really want other people

285

00:12:06,269 --> 00:12:11,970

to see the pleasure in their subject

286
00:12:09,360 --> 00:12:14,100
area that they themselves feel and I

287
00:12:11,970 --> 00:12:15,990
think if you got these two elements you

288
00:12:14,100 --> 00:12:18,990
can have a variety of styles but

289
00:12:15,990 --> 00:12:22,769
something about that will be for most

290
00:12:18,990 --> 00:12:25,409
people convincing and compelling so I

291
00:12:22,769 --> 00:12:27,960
think those things have got to be there

292
00:12:25,409 --> 00:12:29,779
in the mix for for good television as

293
00:12:27,960 --> 00:12:31,800
they have to be for good teaching anyway

294
00:12:29,779 --> 00:12:34,079
dr. Morrison what do you think is the

295
00:12:31,799 --> 00:12:35,939
hardest thing to get across to children

296
00:12:34,080 --> 00:12:38,160
as a science concept one of the one the

297
00:12:35,940 --> 00:12:40,440
hardest science concepts it's hard to

298
00:12:38,159 --> 00:12:42,899
get across for me that there's Planck

299
00:12:40,440 --> 00:12:44,490
time and Schrodinger's cat there are two

300
00:12:42,899 --> 00:12:45,779
things that are really hard for me you

301
00:12:44,490 --> 00:12:48,570
probably wouldn't put them in a kids

302
00:12:45,779 --> 00:12:50,069
show but what for you is the one where r

303
00:12:48,570 --> 00:12:51,660
how we're going to show this how can we

304
00:12:50,070 --> 00:12:54,030
explain this easily well there are

305
00:12:51,659 --> 00:12:56,449
somethings that I'm baffled by and I

306
00:12:54,029 --> 00:12:59,039
would never even try I mean I've tried

307
00:12:56,450 --> 00:13:01,890
to get the groups with the subatomic

308
00:12:59,039 --> 00:13:03,659
physics and there's a point where I can

309
00:13:01,889 --> 00:13:05,460
follow it and then suddenly they might

310
00:13:03,659 --> 00:13:07,919
as well be spouting science fiction to

311
00:13:05,460 --> 00:13:10,200
me I I can't deal with it I know it's

312
00:13:07,919 --> 00:13:12,539
true because it works and people I trust

313
00:13:10,200 --> 00:13:14,940
say it's true but for me they could be

314

00:13:12,539 --> 00:13:16,230
saying almost anything and I wouldn't be

315
00:13:14,940 --> 00:13:17,640
able to tell the difference so trying to

316
00:13:16,230 --> 00:13:21,060
explain that I would have a lot of

317
00:13:17,639 --> 00:13:22,500
trouble with it was it was there

318
00:13:21,059 --> 00:13:26,669
anything that you did repeatedly on the

319
00:13:22,500 --> 00:13:29,610
show that you had trouble with but

320
00:13:26,669 --> 00:13:31,889
before the before the National Security

321
00:13:29,610 --> 00:13:33,899
Agency took you off line there dr.

322
00:13:31,889 --> 00:13:35,819
Morrison you were about to discuss the

323
00:13:33,899 --> 00:13:37,470
most difficult concept you had to get

324
00:13:35,820 --> 00:13:39,240
across on all your years of the

325
00:13:37,470 --> 00:13:41,490
curiosity show in science what was the

326
00:13:39,240 --> 00:13:44,269
hardest thing well it didn't quite work

327
00:13:41,490 --> 00:13:49,259
like that yeah Dylan I would sit down

328
00:13:44,269 --> 00:13:51,210

say to plan 13 episodes ahead and what

329

00:13:49,259 --> 00:13:53,549

we would do often would be just as

330

00:13:51,210 --> 00:13:56,700

Australia a word of might be water or

331

00:13:53,549 --> 00:13:59,339

maybe wheat or blue or something like

332

00:13:56,700 --> 00:14:00,780

that and then you'd put that out in the

333

00:13:59,340 --> 00:14:04,019

sort of middle of a circle and then you

334

00:14:00,779 --> 00:14:07,199

start doing lines out from it so i would

335

00:14:04,019 --> 00:14:09,110

start gravitating into my area of what

336

00:14:07,200 --> 00:14:13,470

would I think about perhaps I'd do a

337

00:14:09,110 --> 00:14:16,919

pond animal or I might do something to

338

00:14:13,470 --> 00:14:18,899

do with the color blue in antiquity how

339

00:14:16,919 --> 00:14:21,809

it's made out of lapis lazuli ground up

340

00:14:18,899 --> 00:14:24,569

so you just pick the subjects that you

341

00:14:21,809 --> 00:14:26,909

knew were interesting to you and you

342

00:14:24,570 --> 00:14:29,160

could handle we didn't have a kind of

343
00:14:26,909 --> 00:14:32,730
brief that said you must deal with these

344
00:14:29,159 --> 00:14:35,159
subjects so we were always in our own

345
00:14:32,730 --> 00:14:38,550
comfort zones and we tended to put on

346
00:14:35,159 --> 00:14:40,350
the stuff that I mean we Ben and I both

347
00:14:38,549 --> 00:14:42,269
grew up with our television so we had a

348
00:14:40,350 --> 00:14:44,790
boyhood of making things and doing

349
00:14:42,269 --> 00:14:47,699
things so you talk back to that a lot

350
00:14:44,789 --> 00:14:49,379
and haul out of that reservoir of your

351
00:14:47,700 --> 00:14:51,360
own experience stuff that you thought

352
00:14:49,379 --> 00:14:53,100
might interest in other audience so

353
00:14:51,360 --> 00:14:55,800
somebody has said to me or your job is

354
00:14:53,100 --> 00:14:58,889
to cover Schrodinger probably would have

355
00:14:55,799 --> 00:15:00,750
been out of it within a month or there'd

356
00:14:58,889 --> 00:15:02,399
be some idiot like me doing that kind of

357
00:15:00,750 --> 00:15:04,529
thing and look really what teenage kid

358
00:15:02,399 --> 00:15:06,899
wants to know about that well I think

359
00:15:04,529 --> 00:15:08,850
they I mean if you could get somebody

360
00:15:06,899 --> 00:15:10,949
who can explain it well I think anyone

361
00:15:08,850 --> 00:15:13,019
would like to know about that but if you

362
00:15:10,950 --> 00:15:14,370
if you get somebody and force them to

363
00:15:13,019 --> 00:15:17,669
explain stuff they're not comfortable

364
00:15:14,370 --> 00:15:22,039
with it'll show but we we didn't do that

365
00:15:17,669 --> 00:15:26,459
we weren't scripted shows were simply

366
00:15:22,039 --> 00:15:29,219
what we found interesting and we just

367
00:15:26,460 --> 00:15:30,840
did that and how do you feel about more

368
00:15:29,220 --> 00:15:33,629
contemporary shows for an older audience

369
00:15:30,840 --> 00:15:36,629
admittedly like the Mythbusters where

370
00:15:33,629 --> 00:15:39,120
there is a lot strong strong emphasis on

371

00:15:36,629 --> 00:15:40,769
the explosion and the very flashy things

372
00:15:39,120 --> 00:15:42,210
which of course are part of physics and

373
00:15:40,769 --> 00:15:45,659
science and how do you feel about that

374
00:15:42,210 --> 00:15:47,850
well some of Mythbusters are like a lot

375
00:15:45,659 --> 00:15:50,009
i like it when they actually take an

376
00:15:47,850 --> 00:15:53,040
interesting topic and then they use

377
00:15:50,009 --> 00:15:54,809
science and they use isolate variables

378
00:15:53,039 --> 00:15:57,360
and they do a controlled condition and

379
00:15:54,809 --> 00:15:59,729
that's pretty strong scientific stuff

380
00:15:57,360 --> 00:16:02,220
even though they're cool of that i like

381
00:15:59,730 --> 00:16:04,860
the way they analyze something and show

382
00:16:02,220 --> 00:16:08,220
how a scientific approach will sort of

383
00:16:04,860 --> 00:16:11,039
that i am less enthusiastic about the

384
00:16:08,220 --> 00:16:12,050
endless cackling and i hate watching the

385
00:16:11,039 --> 00:16:14,309

sort of

386

00:16:12,049 --> 00:16:16,500

teenagers just saying all going to have

387

00:16:14,309 --> 00:16:19,109

an explosion because it's such a parody

388

00:16:16,500 --> 00:16:22,649

of what science is about and again they

389

00:16:19,110 --> 00:16:23,909

look like people who you know they're

390

00:16:22,649 --> 00:16:26,789

not really tell me interest of the

391

00:16:23,909 --> 00:16:30,120

science interesting the kind of you know

392

00:16:26,789 --> 00:16:33,029

let me be center stage and carry on like

393

00:16:30,120 --> 00:16:34,860

a like a mad thing you know it's are

394

00:16:33,029 --> 00:16:37,879

more interested in the material I think

395

00:16:34,860 --> 00:16:40,230

than the kind of Richie presentation of

396

00:16:37,879 --> 00:16:43,259

that but that's a very American than

397

00:16:40,230 --> 00:16:46,080

average I'd certainly is tell me what is

398

00:16:43,259 --> 00:16:47,610

the one experiment that did go wrong for

399

00:16:46,080 --> 00:16:49,470

you there must have been a few I mean I

400
00:16:47,610 --> 00:16:51,210
know you didn't do big mythbuster type

401
00:16:49,470 --> 00:16:52,740
explosions but things got a bit out of

402
00:16:51,210 --> 00:16:56,370
hand on more than one occasion in the

403
00:16:52,740 --> 00:16:57,930
studio I'm sure well we did have we had

404
00:16:56,370 --> 00:16:59,340
a few of them but unfortunately we

405
00:16:57,929 --> 00:17:01,949
haven't got much of a bloopers tape

406
00:16:59,340 --> 00:17:05,490
because they used to just rewind the

407
00:17:01,950 --> 00:17:08,338
tape and then go over it I certainly was

408
00:17:05,490 --> 00:17:09,990
greatly mortified once when I did a hot

409
00:17:08,338 --> 00:17:11,579
air balloon of us of you know tissue

410
00:17:09,990 --> 00:17:13,259
paper honey but he knows has actually

411
00:17:11,579 --> 00:17:15,929
taken out of the science curriculum for

412
00:17:13,259 --> 00:17:18,180
schools but I did it and gave all the

413
00:17:15,930 --> 00:17:20,580
usual sort of cautions about take care

414
00:17:18,180 --> 00:17:23,880
take care take care but was horrified to

415
00:17:20,579 --> 00:17:27,149
find somebody in the parliament house in

416
00:17:23,880 --> 00:17:29,130
the Canberra raising questions about

417
00:17:27,150 --> 00:17:31,440
this terrible show and the dangerous

418
00:17:29,130 --> 00:17:33,570
things it was teaching two children oh I

419
00:17:31,440 --> 00:17:35,759
was very desperately was actually from

420
00:17:33,569 --> 00:17:38,339
the syllabus yes I was from the syllabus

421
00:17:35,759 --> 00:17:40,140
I was young enough to be mortified at

422
00:17:38,339 --> 00:17:43,019
that these days I'd be a bit more robust

423
00:17:40,140 --> 00:17:45,960
but that wasn't Pleasant I think

424
00:17:43,019 --> 00:17:47,579
somebody wrote into Dean saying they did

425
00:17:45,960 --> 00:17:50,910
something a beaner done and set fire to

426
00:17:47,579 --> 00:17:52,799
their house I think I think they were

427
00:17:50,910 --> 00:17:55,019
probably not doing it the way Dina done

428

00:17:52,799 --> 00:17:56,579
it but you didn't have to be a bit

429
00:17:55,019 --> 00:17:58,829
careful but on the other hand if you

430
00:17:56,579 --> 00:18:00,539
start memorizing it too much and saying

431
00:17:58,829 --> 00:18:02,579
we won't have flame you won't have this

432
00:18:00,539 --> 00:18:05,549
we went of that you've got very little

433
00:18:02,579 --> 00:18:06,960
you can show and if you want to make a

434
00:18:05,549 --> 00:18:10,589
putt putt boat or something with a

435
00:18:06,960 --> 00:18:12,059
candle it requires a candle yes and the

436
00:18:10,589 --> 00:18:14,459
reason I'm talking to is because you've

437
00:18:12,059 --> 00:18:16,349
put a lot of clips from the curiosity

438
00:18:14,460 --> 00:18:17,850
show up on YouTube people to have a look

439
00:18:16,349 --> 00:18:21,359
at for free and have their own go out

440
00:18:17,849 --> 00:18:22,559
yes we have indeed we a lot of people

441
00:18:21,359 --> 00:18:25,019
have said why don't you bring the show

442
00:18:22,559 --> 00:18:28,500

back but I think television is change

443

00:18:25,019 --> 00:18:30,089

so much of nothing it sounds a bit sort

444

00:18:28,500 --> 00:18:33,390

of self-serving but I think we saw the

445

00:18:30,089 --> 00:18:35,669

heyday of it not because it was us but

446

00:18:33,390 --> 00:18:39,240

simply because i think that period in

447

00:18:35,670 --> 00:18:41,009

television was marvelous it was three

448

00:18:39,240 --> 00:18:43,140

channels then a fourth one came along

449

00:18:41,009 --> 00:18:45,269

was all a bit special we saw the

450

00:18:43,140 --> 00:18:46,770

introduction of color when i started i

451

00:18:45,269 --> 00:18:49,529

was actually filming in black and white

452

00:18:46,769 --> 00:18:53,069

film you know so you saw those

453

00:18:49,529 --> 00:18:54,690

television technology's changing because

454

00:18:53,069 --> 00:18:57,509

we must explain to our American

455

00:18:54,690 --> 00:18:59,910

listeners that color television Allen

456

00:18:57,509 --> 00:19:02,220

came to australia in 76 was it was that

457
00:18:59,910 --> 00:19:04,170
the unitary five or six years yeah quite

458
00:19:02,220 --> 00:19:06,420
late and nationally we only had three

459
00:19:04,170 --> 00:19:09,450
sometimes four stations if you were in

460
00:19:06,420 --> 00:19:12,330
newcastle like i was you only had two TV

461
00:19:09,450 --> 00:19:14,370
channels the ABC and the local one which

462
00:19:12,329 --> 00:19:15,599
did not always run the Curiosity show

463
00:19:14,369 --> 00:19:17,969
that's why I haven't seen a lot of you

464
00:19:15,599 --> 00:19:19,859
episodes all right yes we were a

465
00:19:17,970 --> 00:19:22,350
national but as you say when you go into

466
00:19:19,859 --> 00:19:24,269
the regionals it was a bit term a bit

467
00:19:22,349 --> 00:19:25,980
chancy depending on here random and I'd

468
00:19:24,269 --> 00:19:27,660
like to point out we also didn't have FM

469
00:19:25,980 --> 00:19:29,370
radio at that time that only came to

470
00:19:27,660 --> 00:19:31,050
australia in nineteen eighty years of

471
00:19:29,369 --> 00:19:34,969
nothing that's right and of course the

472
00:19:31,049 --> 00:19:37,829
the broadening of delivery has made that

473
00:19:34,970 --> 00:19:41,009
the special attention that you could

474
00:19:37,829 --> 00:19:42,659
give to television has been weakened so

475
00:19:41,009 --> 00:19:45,150
the money is not there because the

476
00:19:42,660 --> 00:19:46,800
advertising flow is not so strong and it

477
00:19:45,150 --> 00:19:48,750
said I used to work for several channels

478
00:19:46,799 --> 00:19:51,539
here and you go into these big beautiful

479
00:19:48,750 --> 00:19:53,220
studios may be full of sets you had to

480
00:19:51,539 --> 00:19:56,460
be quick to get in and out before the

481
00:19:53,220 --> 00:19:58,710
next program recording and where can we

482
00:19:56,460 --> 00:20:00,809
find your videos on YouTube is it simple

483
00:19:58,710 --> 00:20:03,809
simple as a Google googling curiosity

484
00:20:00,809 --> 00:20:07,859
show if you go to what is it it's um I

485

00:20:03,809 --> 00:20:11,789
think if you go to youtube.com slash

486
00:20:07,859 --> 00:20:13,349
curiosity show one word you'll find it

487
00:20:11,789 --> 00:20:14,849
there we've been putting new stuff up

488
00:20:13,349 --> 00:20:16,799
every day we're about to slow down

489
00:20:14,849 --> 00:20:17,909
because well you got to relax you're

490
00:20:16,799 --> 00:20:19,379
going to calm down and going to kick

491
00:20:17,910 --> 00:20:20,850
back with your feet up have a smoke or

492
00:20:19,380 --> 00:20:22,890
something well as a bit of that but also

493
00:20:20,849 --> 00:20:25,889
we have to start thinking about whether

494
00:20:22,890 --> 00:20:28,259
we can we're not putting ads on it so

495
00:20:25,890 --> 00:20:30,780
it's all free but it does cost a bit to

496
00:20:28,259 --> 00:20:32,640
do so we're going to sort of slow it

497
00:20:30,779 --> 00:20:35,389
down a little and have a think about

498
00:20:32,640 --> 00:20:37,530
what what else we might do with it

499
00:20:35,390 --> 00:20:38,759

actually what's your favorite clip

500

00:20:37,529 --> 00:20:41,009

what's your favorite

501

00:20:38,759 --> 00:20:42,838

there you've got so far oh look it's

502

00:20:41,009 --> 00:20:46,858

hard to say I've reattached to the

503

00:20:42,838 --> 00:20:49,828

mousetrap racer which I've seen emerge

504

00:20:46,858 --> 00:20:52,408

in different programs over the years

505

00:20:49,828 --> 00:20:55,078

since I did it you just mail strapped

506

00:20:52,409 --> 00:20:56,399

into a racing car and then sometimes do

507

00:20:55,078 --> 00:20:57,959

you think well that'll work i wonder if

508

00:20:56,398 --> 00:20:59,878

we can make a mousetrap paddlewheeler

509

00:20:57,959 --> 00:21:03,119

and you do so one idea will give you

510

00:20:59,878 --> 00:21:05,578

about five or six different segments so

511

00:21:03,118 --> 00:21:07,528

that one is up there here's a question

512

00:21:05,578 --> 00:21:10,798

for you been asked by colleague of mine

513

00:21:07,528 --> 00:21:13,288

he's his son has to get their science

514
00:21:10,798 --> 00:21:15,118
badge for Cubs and has to do a science

515
00:21:13,288 --> 00:21:17,338
experiment using things from around the

516
00:21:15,118 --> 00:21:19,168
house Oh what do you think would be the

517
00:21:17,338 --> 00:21:21,078
best thing to get his science Cubs badge

518
00:21:19,169 --> 00:21:23,369
just using stuff from around the house

519
00:21:21,078 --> 00:21:26,729
well it depends what the requirements

520
00:21:23,368 --> 00:21:28,678
the science club badge is but a

521
00:21:26,729 --> 00:21:31,288
mousetrap races a pretty good one a

522
00:21:28,679 --> 00:21:33,028
master paddle really they are straight

523
00:21:31,288 --> 00:21:34,888
off the top of the head if it's if it's

524
00:21:33,028 --> 00:21:37,138
a sort of science demonstration there's

525
00:21:34,888 --> 00:21:38,638
one which I had forgotten are done but

526
00:21:37,138 --> 00:21:40,468
it turned up when we're putting stuff on

527
00:21:38,638 --> 00:21:43,288
and I can describe this for your

528
00:21:40,469 --> 00:21:45,179
listeners to try because it's every time

529
00:21:43,288 --> 00:21:48,419
I do it I can't believe it if you get a

530
00:21:45,179 --> 00:21:50,609
potato get a potato a sharp knife and a

531
00:21:48,419 --> 00:21:52,379
piece of newspaper okay fold the

532
00:21:50,608 --> 00:21:54,478
newspaper over and you'll find with a

533
00:21:52,378 --> 00:21:57,689
sharp knife you can cut it very easy

534
00:21:54,479 --> 00:21:59,969
like like a paper knife all right now

535
00:21:57,690 --> 00:22:02,788
you fold another bit of paper over the

536
00:21:59,969 --> 00:22:05,068
knife the sharp edge of it and bring it

537
00:22:02,788 --> 00:22:07,348
down and cut the potato what do you

538
00:22:05,068 --> 00:22:11,058
think will happen to the paper I don't

539
00:22:07,348 --> 00:22:13,078
know well try it you'll be amazed and

540
00:22:11,058 --> 00:22:14,668
well I can tell you what will happen

541
00:22:13,078 --> 00:22:16,259
because you still be amazed evilly you

542

00:22:14,669 --> 00:22:20,038
know will we will be collapse the wave

543
00:22:16,259 --> 00:22:21,538
form now is it but you think the knife

544
00:22:20,038 --> 00:22:23,848
would cut through the paper and then the

545
00:22:21,538 --> 00:22:26,009
potato but then the paper is completely

546
00:22:23,848 --> 00:22:28,678
unscathed it'll just go through the

547
00:22:26,009 --> 00:22:31,159
stator with a knife however sharp that

548
00:22:28,679 --> 00:22:33,599
knife is and when you think about it

549
00:22:31,159 --> 00:22:36,119
when you just cut paper with a sharp

550
00:22:33,598 --> 00:22:39,148
knife the force on one side of the paper

551
00:22:36,118 --> 00:22:41,249
is enormous and on the other is

552
00:22:39,148 --> 00:22:43,108
non-existent so the night goes through

553
00:22:41,249 --> 00:22:44,999
the paper when you put the paper over

554
00:22:43,108 --> 00:22:47,699
the knife and then cut a potato the

555
00:22:44,999 --> 00:22:50,940
force on other side of the the paper is

556
00:22:47,700 --> 00:22:53,580

exactly the same so the paper doesn't

557

00:22:50,940 --> 00:22:55,259

sivad despite the fact that the

558

00:22:53,579 --> 00:22:57,359

combination of the knife and the paper

559

00:22:55,259 --> 00:23:00,119

force their way down through the entire

560

00:22:57,359 --> 00:23:02,339

potato so the paper even those damn is

561

00:23:00,119 --> 00:23:04,199

unscathed but every time I do it I'm

562

00:23:02,339 --> 00:23:06,059

amazed so that's a good one that's a

563

00:23:04,200 --> 00:23:07,920

good demonstration no I reckon that

564

00:23:06,059 --> 00:23:11,369

could get you science club badge I

565

00:23:07,920 --> 00:23:13,410

reckon I should if you go online if he

566

00:23:11,369 --> 00:23:15,149

goes on load with we've assembled these

567

00:23:13,410 --> 00:23:18,360

scripts into playlists so you can go

568

00:23:15,150 --> 00:23:21,240

into you know making and doing or you

569

00:23:18,359 --> 00:23:24,719

can go into you know as tricks and

570

00:23:21,240 --> 00:23:27,210

puzzles or a heart and crafts or that

571
00:23:24,720 --> 00:23:29,579
one of our staples in the show was to

572
00:23:27,210 --> 00:23:31,559
use stuff around the home we didn't you

573
00:23:29,579 --> 00:23:33,990
know if you're a kid watching a program

574
00:23:31,559 --> 00:23:35,759
on Sunday and you live at it it will pop

575
00:23:33,990 --> 00:23:38,339
and you haven't got a hobby shop and

576
00:23:35,759 --> 00:23:41,309
somebody says go and buy this such and

577
00:23:38,339 --> 00:23:43,169
such and you can't get it then you can't

578
00:23:41,309 --> 00:23:45,809
do anything so you want to learn how to

579
00:23:43,170 --> 00:23:48,000
use foam me traes instead of balsa wood

580
00:23:45,809 --> 00:23:51,149
you want to learn how to twist your own

581
00:23:48,000 --> 00:23:52,950
propeller out of aluminium foil food

582
00:23:51,150 --> 00:23:55,950
containers instead of having to buy one

583
00:23:52,950 --> 00:23:59,700
so we tend to do a lot of that there's a

584
00:23:55,950 --> 00:24:01,950
great deal you learn from making and

585
00:23:59,700 --> 00:24:03,480
doing and doing things with your fingers

586
00:24:01,950 --> 00:24:06,000
and one of the reasons we've put this

587
00:24:03,480 --> 00:24:07,950
stuff online there is that so many

588
00:24:06,000 --> 00:24:09,569
parents are watching these kids playing

589
00:24:07,950 --> 00:24:11,549
with xboxes in there they've got very

590
00:24:09,569 --> 00:24:14,429
mobile thumbs but that's about it and

591
00:24:11,549 --> 00:24:16,649
they really worried about their children

592
00:24:14,430 --> 00:24:18,870
not making stuff and not doing stuff and

593
00:24:16,650 --> 00:24:21,750
not learning science because a lot of us

594
00:24:18,869 --> 00:24:23,399
not being taught in schools anymore at

595
00:24:21,750 --> 00:24:25,380
least you know you let you're lucky if

596
00:24:23,400 --> 00:24:29,580
you get a school is being how we'll

597
00:24:25,380 --> 00:24:32,070
handle so very very anxious and they

598
00:24:29,579 --> 00:24:33,750
they're buying our dvds and downloading

599

00:24:32,069 --> 00:24:36,269
the sigmas just to have things that

600
00:24:33,750 --> 00:24:38,220
children can do and make and make

601
00:24:36,269 --> 00:24:40,319
working models of and you learn a great

602
00:24:38,220 --> 00:24:42,660
deal by doing that we'll look up the

603
00:24:40,319 --> 00:24:44,669
curiosity show on YouTube and one last

604
00:24:42,660 --> 00:24:45,840
controversial question because this is

605
00:24:44,670 --> 00:24:47,880
the media we have to give you a

606
00:24:45,839 --> 00:24:50,429
controversial question dr. Morrison what

607
00:24:47,880 --> 00:24:53,340
branch of pseudoscience annoys you the

608
00:24:50,430 --> 00:24:55,289
most is it come on here we go come here

609
00:24:53,339 --> 00:24:57,209
whole program that now you're talking to

610
00:24:55,289 --> 00:24:59,339
somebody who two years ago is one of the

611
00:24:57,210 --> 00:25:01,079
five founders of friends of science and

612
00:24:59,339 --> 00:25:02,730
medicine all year though that's why I

613
00:25:01,079 --> 00:25:04,529

want to get your dander up I want you

614

00:25:02,730 --> 00:25:08,279

coming out and punching someone well

615

00:25:04,529 --> 00:25:12,269

where we've got so sick of this pseudo

616

00:25:08,279 --> 00:25:13,950

health nonsense as being spouted and you

617

00:25:12,269 --> 00:25:15,539

know often by the people are going to

618

00:25:13,950 --> 00:25:18,000

make it quit out of the out of the

619

00:25:15,539 --> 00:25:20,609

dubious say you know whether it's

620

00:25:18,000 --> 00:25:24,869

homeopathy or iridology or reflexology

621

00:25:20,609 --> 00:25:27,659

or you know their vent their about 35 of

622

00:25:24,869 --> 00:25:29,639

these things being currently examined by

623

00:25:27,660 --> 00:25:31,830

the chief medical officer of Australia

624

00:25:29,640 --> 00:25:34,710

to see whether they should be taken off

625

00:25:31,829 --> 00:25:37,319

the list of those which give any sort of

626

00:25:34,710 --> 00:25:39,660

money they shouldn't be they shouldn't

627

00:25:37,319 --> 00:25:41,789

be supported by the taxpayer so we

628
00:25:39,660 --> 00:25:45,029
formed a group and we have about a

629
00:25:41,789 --> 00:25:47,279
thousand members now trying to take some

630
00:25:45,029 --> 00:25:49,680
of this nonsense on all the on you

631
00:25:47,279 --> 00:25:51,839
be a reef you be a secret reflexology

632
00:25:49,680 --> 00:25:53,940
fan maybe come on come on you get the I

633
00:25:51,839 --> 00:25:56,970
reckon there's been a magnet in your bed

634
00:25:53,940 --> 00:25:58,440
at least once in your life well possibly

635
00:25:56,970 --> 00:26:00,329
if I was trying to make something but

636
00:25:58,440 --> 00:26:01,799
there will be the only reason evolution

637
00:26:00,329 --> 00:26:03,329
you can tell us that story next time

638
00:26:01,799 --> 00:26:05,430
well that'll be a with a late night

639
00:26:03,329 --> 00:26:06,869
version of the interview look Rob thanks

640
00:26:05,430 --> 00:26:08,730
very much for your time dr. rob morris

641
00:26:06,869 --> 00:26:10,229
and as I said curiosity so go check it

642
00:26:08,730 --> 00:26:12,029
out on youtube it's been a great

643
00:26:10,230 --> 00:26:14,870
pleasure to talk to you sir yeah okay

644
00:26:12,029 --> 00:26:14,869
and thanks for the call

645
00:26:24,888 --> 00:26:30,658
it never ends a friend starts talking

646
00:26:28,378 --> 00:26:32,099
about his new Reiki Master and someone

647
00:26:30,659 --> 00:26:34,980
else just posted about another

648
00:26:32,099 --> 00:26:37,378
all-natural cancer cure that they don't

649
00:26:34,980 --> 00:26:38,788
want you to know about as skeptics we

650
00:26:37,378 --> 00:26:41,248
spend a lot of time trying to educate

651
00:26:38,788 --> 00:26:42,950
and protect those around us but there is

652
00:26:41,249 --> 00:26:45,839
a way that you can reach millions

653
00:26:42,950 --> 00:26:47,879
guerrilla skepticism on Wikipedia is a

654
00:26:45,839 --> 00:26:49,519
group working to keep the best skeptical

655
00:26:47,878 --> 00:26:53,058
information at everyone's fingertips

656

00:26:49,519 --> 00:26:56,970
join us we need writers editors

657
00:26:53,058 --> 00:26:59,308
translators we need you to join us or

658
00:26:56,970 --> 00:27:02,669
find out more send a facebook friend

659
00:26:59,308 --> 00:27:08,418
request to Susan Berbick that's ger be I

660
00:27:02,669 --> 00:27:08,419
see guerrilla skepticism the time is now

661
00:27:09,499 --> 00:27:14,038
welcome to a week in science from our

662
00:27:11,849 --> 00:27:16,980
iOS bringing you the science news you

663
00:27:14,038 --> 00:27:19,648
need to know maths and politics all

664
00:27:16,980 --> 00:27:23,038
mixed up tracking Russian asteroids and

665
00:27:19,648 --> 00:27:26,118
a scary massive platypus that's what

666
00:27:23,038 --> 00:27:26,118
happened this week in science

667
00:27:31,940 --> 00:27:38,190
your ability to solve math problems may

668
00:27:35,308 --> 00:27:40,349
depend on your political views over

669
00:27:38,190 --> 00:27:42,480
1,000 participants in the United States

670
00:27:40,349 --> 00:27:44,759

were first classified according to their

671

00:27:42,480 --> 00:27:46,980

mathematical ability and their political

672

00:27:44,759 --> 00:27:48,808

leaning they were then given a maths

673

00:27:46,980 --> 00:27:51,240

problem using data from a fake

674

00:27:48,808 --> 00:27:54,240

scientific study about the effectiveness

675

00:27:51,240 --> 00:27:56,099

of controversial gun laws people with

676

00:27:54,240 --> 00:27:58,349

good math skills who should have been

677

00:27:56,099 --> 00:28:00,480

able to solve the problem performed

678

00:27:58,349 --> 00:28:02,819

significantly worse when the answer went

679

00:28:00,480 --> 00:28:05,308

against their political stance this

680

00:28:02,819 --> 00:28:07,439

shows that our political views impact on

681

00:28:05,308 --> 00:28:09,509

our logic and reasoning skills which

682

00:28:07,440 --> 00:28:12,029

could explain why people uphold certain

683

00:28:09,509 --> 00:28:16,740

opinions even in the face of compelling

684

00:28:12,029 --> 00:28:19,019

scientific evidence the analysis of the

685
00:28:16,740 --> 00:28:21,210
chillier bintz gas droid is in and it

686
00:28:19,019 --> 00:28:24,000
shows just how powerful a small asteroid

687
00:28:21,210 --> 00:28:26,250
can be the roughly 20 meter diameter

688
00:28:24,000 --> 00:28:29,730
asteroid exploded over the Russian town

689
00:28:26,250 --> 00:28:32,640
in February 2013 injuring hundreds and

690
00:28:29,730 --> 00:28:35,308
causing widespread damage it exploded

691
00:28:32,640 --> 00:28:37,290
into smaller fragments around 30 to 45

692
00:28:35,308 --> 00:28:40,019
kilometers above the ground while

693
00:28:37,289 --> 00:28:42,480
travelling at the huge speed of sixty

694
00:28:40,019 --> 00:28:44,869
four thousand kilometers per hour the

695
00:28:42,480 --> 00:28:48,630
explosion had the power of around

696
00:28:44,869 --> 00:28:51,269
500,000 tons of TNT and appeared 30

697
00:28:48,630 --> 00:28:53,190
times brighter than the Sun the rock

698
00:28:51,269 --> 00:28:58,168
itself is thought to have originated

699
00:28:53,190 --> 00:29:00,179
from an asteroid called 1999 NC 43 which

700
00:28:58,169 --> 00:29:02,880
is not the same asteroid that made a

701
00:29:00,179 --> 00:29:05,009
close pass in the same week you're

702
00:29:02,880 --> 00:29:08,220
listening to our week in science from RI

703
00:29:05,009 --> 00:29:10,660
oz are now four sides headlines in 30

704
00:29:08,220 --> 00:29:13,220
seconds

705
00:29:10,660 --> 00:29:15,230
children with autism have more neural

706
00:29:13,220 --> 00:29:17,750
connections in their brains compared to

707
00:29:15,230 --> 00:29:19,970
other children which could aid in early

708
00:29:17,750 --> 00:29:22,160
detection scientists have created a

709
00:29:19,970 --> 00:29:25,069
low-fat mince meat that looks and tastes

710
00:29:22,160 --> 00:29:27,019
the same but replaces the fat with fiber

711
00:29:25,069 --> 00:29:28,909
and protein from cows blood it's

712
00:29:27,019 --> 00:29:31,279
estimated around twenty percent of

713

00:29:28,910 --> 00:29:33,740
sun-like stars have orbiting planets

714
00:29:31,279 --> 00:29:35,690
which are earth-sized and may have

715
00:29:33,740 --> 00:29:37,220
liquid water on their surface and a one

716
00:29:35,690 --> 00:29:40,039
meter long platypus has been identified

717
00:29:37,220 --> 00:29:43,430
in Queensland but it's been extinct for

718
00:29:40,039 --> 00:29:45,559
over five million years that's it for

719
00:29:43,430 --> 00:29:59,539
this a week in science I'll see you

720
00:29:45,559 --> 00:30:03,259
right back here next week hey Kenny oh

721
00:29:59,539 --> 00:30:06,980
hi Tom I see at this park yeah yes great

722
00:30:03,259 --> 00:30:09,769
weather oh look a unicorn unicorn there

723
00:30:06,980 --> 00:30:12,920
are no such things as unicorns silly yes

724
00:30:09,769 --> 00:30:14,509
there is no there isn't hey guys what

725
00:30:12,920 --> 00:30:18,019
are you arguing about tom thinks

726
00:30:14,509 --> 00:30:20,180
unicorns are real say so our let's look

727
00:30:18,019 --> 00:30:22,519

us up in the skeptics dictionary the

728

00:30:20,180 --> 00:30:24,680

what how can we do this in this bar

729

00:30:22,519 --> 00:30:26,180

there is the computer here you guys

730

00:30:24,680 --> 00:30:28,340

probably don't know about the skeptics

731

00:30:26,180 --> 00:30:31,940

dictionary app available now for iPhone

732

00:30:28,339 --> 00:30:35,209

iPad and iPod touch in the App Store Wow

733

00:30:31,940 --> 00:30:37,460

cool the app lets you access all of the

734

00:30:35,210 --> 00:30:39,590

great skeptics dictionary articles when

735

00:30:37,460 --> 00:30:42,470

you're on the go here let me look up

736

00:30:39,589 --> 00:30:45,349

unicorns now cool Kenny prepare to be

737

00:30:42,470 --> 00:30:48,890

proven wrong it says here the Unicorn is

738

00:30:45,349 --> 00:30:50,719

a creature from fables aha actually I

739

00:30:48,890 --> 00:30:52,420

see now that someone just dumped their

740

00:30:50,720 --> 00:30:57,490

ice cream cone on that horse's head

741

00:30:52,420 --> 00:30:57,490

thanks skeptics dictionary iphone app

742
00:31:03,138 --> 00:31:14,788
from the website wwc em watch gov au

743
00:31:10,878 --> 00:31:18,118
don't back a scammer this spring racing

744
00:31:14,788 --> 00:31:20,878
season scam watch is reminding punters

745
00:31:18,118 --> 00:31:23,668
not to be fooled by con artists pushing

746
00:31:20,878 --> 00:31:27,238
sports investment scams this racing

747
00:31:23,669 --> 00:31:29,970
season foolproof gambling schemes and

748
00:31:27,239 --> 00:31:32,489
betting prediction software trap more

749
00:31:29,970 --> 00:31:36,269
people during the spring racing season

750
00:31:32,489 --> 00:31:38,940
as the race fever takes hold often

751
00:31:36,269 --> 00:31:42,118
promoted as legitimate investments these

752
00:31:38,940 --> 00:31:44,690
schemes simply do not deliver the odds

753
00:31:42,118 --> 00:31:48,238
are you will never see your money again

754
00:31:44,690 --> 00:31:50,970
remember gambling by definition is a

755
00:31:48,239 --> 00:31:55,679
game of chance there is no such thing as

756
00:31:50,970 --> 00:31:58,679
a foolproof bet how these scams work you

757
00:31:55,679 --> 00:32:00,989
receive a call email or letter out of

758
00:31:58,679 --> 00:32:03,659
the blue from somebody offering you an

759
00:32:00,989 --> 00:32:06,509
opportunity to invest in a sporting

760
00:32:03,659 --> 00:32:09,960
betting syndicate or software package

761
00:32:06,509 --> 00:32:12,749
that is guaranteed to provide high

762
00:32:09,960 --> 00:32:15,269
returns the promoter claims that the

763
00:32:12,749 --> 00:32:18,179
scheme is able to predict results based

764
00:32:15,269 --> 00:32:21,149
on historical trends track or horse

765
00:32:18,179 --> 00:32:23,639
conditions or different odds offered by

766
00:32:21,148 --> 00:32:26,388
bookmakers the promoter will try to

767
00:32:23,638 --> 00:32:29,158
convince you that this investment

768
00:32:26,388 --> 00:32:31,918
opportunity is legitimate through

769
00:32:29,159 --> 00:32:34,889
sophisticated brochures or websites that

770

00:32:31,919 --> 00:32:37,919
contain graphs or diagrams showing large

771
00:32:34,888 --> 00:32:40,319
or turns you are also likely to be

772
00:32:37,919 --> 00:32:43,019
subjected to high pressure sales tactics

773
00:32:40,319 --> 00:32:45,689
to try and get you to sign up on the

774
00:32:43,019 --> 00:32:48,749
spot such as claiming that places are

775
00:32:45,690 --> 00:32:51,840
strictly limited in order to participate

776
00:32:48,749 --> 00:32:54,919
you are required to pay large upfront

777
00:32:51,839 --> 00:32:57,628
costs and ongoing fees and charges

778
00:32:54,919 --> 00:33:00,720
betting syndicates also require you to

779
00:32:57,628 --> 00:33:03,839
put money into a sports betting account

780
00:33:00,720 --> 00:33:05,399
so that promoters can place bets on

781
00:33:03,839 --> 00:33:07,378
behalf of the syndicate with

782
00:33:05,398 --> 00:33:10,258
participants receiving a percentage of

783
00:33:07,378 --> 00:33:13,678
the profits often no bets are actually

784
00:33:10,259 --> 00:33:15,960

placed if you sign up you may initially

785

00:33:13,679 --> 00:33:16,740

find your account shows winnings during

786

00:33:15,960 --> 00:33:19,410

the

787

00:33:16,740 --> 00:33:21,890

I'll period however it's not long before

788

00:33:19,410 --> 00:33:25,529

all your money and the promoters

789

00:33:21,890 --> 00:33:27,540

disappear protect yourself if you

790

00:33:25,529 --> 00:33:29,549

receive a phone call or email out of the

791

00:33:27,539 --> 00:33:33,079

blue with a sports investment

792

00:33:29,549 --> 00:33:36,329

opportunity just hang up or press Delete

793

00:33:33,079 --> 00:33:38,899

always get independent financial or

794

00:33:36,329 --> 00:33:41,869

legal advice if an offer involves

795

00:33:38,900 --> 00:33:45,150

significant money time or commitment

796

00:33:41,869 --> 00:33:47,729

don't be enticed by reports of past

797

00:33:45,150 --> 00:33:50,940

performance or graphs showing high

798

00:33:47,730 --> 00:33:54,120

returns and don't let scammers push your

799
00:33:50,940 --> 00:33:58,140
buttons by pressuring you to sign up on

800
00:33:54,119 --> 00:34:00,629
the spot ask yourself if a stranger knew

801
00:33:58,140 --> 00:34:03,929
a secret to making money why would they

802
00:34:00,630 --> 00:34:06,170
share it if you think you have provided

803
00:34:03,929 --> 00:34:08,418
your account details to a scammer

804
00:34:06,170 --> 00:34:11,730
contact your bank or financial

805
00:34:08,418 --> 00:34:13,799
institution immediately and for those in

806
00:34:11,730 --> 00:34:21,840
Australia you can report scams to the a

807
00:34:13,800 --> 00:34:24,649
Triple C by calling 1 307 95 995 for

808
00:34:21,840 --> 00:34:24,649
more information visit

809
00:34:39,550 --> 00:34:43,730
well as I mentioned earlier in the show

810
00:34:41,900 --> 00:34:46,940
the Australian skeptics national

811
00:34:43,730 --> 00:34:49,250
convention is almost upon us a few seats

812
00:34:46,940 --> 00:34:51,110
left and that's it they're all gone the

813
00:34:49,250 --> 00:34:55,090
word is hurry up and get your tickets

814
00:34:51,110 --> 00:34:58,400
now at wwn a Chanel skeptics convention

815
00:34:55,090 --> 00:35:01,370
org and also don't forget all the

816
00:34:58,400 --> 00:35:04,070
wonderful fringe events these include

817
00:35:01,369 --> 00:35:07,159
discovery after dark at the CSIRO

818
00:35:04,070 --> 00:35:09,260
discovery centre which will be a lot of

819
00:35:07,159 --> 00:35:11,929
fun with the mystery investigators and

820
00:35:09,260 --> 00:35:15,020
christopher french and well maybe even a

821
00:35:11,929 --> 00:35:17,419
spoon bending lesson there's also the

822
00:35:15,019 --> 00:35:20,989
british anomalistic psychology in the

823
00:35:17,420 --> 00:35:24,349
pub dinner with chris french and 13

824
00:35:20,989 --> 00:35:26,449
years of weird science at Goldsmiths all

825
00:35:24,349 --> 00:35:29,299
these fringe events are for you to enjoy

826
00:35:26,449 --> 00:35:30,769
our in and around the National

827

00:35:29,300 --> 00:35:34,640
Convention and if you're in Canberra

828
00:35:30,769 --> 00:35:39,139
come along again all the details at wwn

829
00:35:34,639 --> 00:35:48,650
a Chanel skeptics convention dot org see

830
00:35:39,139 --> 00:35:50,389
you there are you enjoying the skeptics

831
00:35:48,650 --> 00:35:53,059
on podcast and wondering where you can

832
00:35:50,389 --> 00:35:55,039
find more skeptical information skeptics

833
00:35:53,059 --> 00:35:56,960
on the net is an online directory for

834
00:35:55,039 --> 00:35:59,029
everything skeptical it features

835
00:35:56,960 --> 00:36:02,000
listings for skeptical podcasts blogs

836
00:35:59,030 --> 00:36:04,250
people local groups and more it also

837
00:36:02,000 --> 00:36:05,840
includes the sotn blog where people in

838
00:36:04,250 --> 00:36:07,550
the know right introductions to their

839
00:36:05,840 --> 00:36:13,900
favorite skeptical and pseudo scientific

840
00:36:07,550 --> 00:36:13,900
topics please visit skeptics on the.net

841
00:36:24,760 --> 00:36:30,590

now just before we go to skeptics in the

842

00:36:28,039 --> 00:36:32,929

pub and the question I asked everybody

843

00:36:30,590 --> 00:36:36,670

is if you could go to Mars would you do

844

00:36:32,929 --> 00:36:38,539

it even if it means you can't come back

845

00:36:36,670 --> 00:36:40,820

we'll get to that in a minute just

846

00:36:38,539 --> 00:36:42,110

before we do that a little announcement

847

00:36:40,820 --> 00:36:44,990

thank you to all the people who

848

00:36:42,110 --> 00:36:47,360

subscribe of course it means the show

849

00:36:44,989 --> 00:36:52,159

keeps going and you can subscribe by

850

00:36:47,360 --> 00:36:55,789

visiting wwc a petting zoo TV and using

851

00:36:52,159 --> 00:36:58,149

PayPal all those people who do currently

852

00:36:55,789 --> 00:37:00,409

subscribe if you haven't already done so

853

00:36:58,150 --> 00:37:02,420

would you kindly cancel your

854

00:37:00,409 --> 00:37:05,179

subscription zandri subscribe I know

855

00:37:02,420 --> 00:37:07,430

it's a pain and I'm sorry but for

856
00:37:05,179 --> 00:37:09,739
reasons of administration behind the

857
00:37:07,429 --> 00:37:11,509
scenes sort of bookkeeping reasons and

858
00:37:09,739 --> 00:37:14,059
all sorts of things I've had to change

859
00:37:11,510 --> 00:37:17,300
the paypal account a little bit of a a

860
00:37:14,059 --> 00:37:19,309
hassle but nevermind most of you have

861
00:37:17,300 --> 00:37:20,840
changed over thank you very much but if

862
00:37:19,309 --> 00:37:22,809
you're listening to this and you haven't

863
00:37:20,840 --> 00:37:25,220
received my message and you haven't

864
00:37:22,809 --> 00:37:28,219
cancelled your current subscription but

865
00:37:25,219 --> 00:37:31,009
re subscribed I encourage you to do so

866
00:37:28,219 --> 00:37:34,129
please do so the old paypal account will

867
00:37:31,010 --> 00:37:37,460
be shutting before long sorry to put you

868
00:37:34,130 --> 00:37:40,010
to the trouble but your weekly

869
00:37:37,460 --> 00:37:42,230
subscription in most cases less than a

870
00:37:40,010 --> 00:37:44,690
dollar a week means the show keeps going

871
00:37:42,230 --> 00:37:46,849
and looking over the list of people who

872
00:37:44,690 --> 00:37:49,760
do subscribe it's interesting to see

873
00:37:46,849 --> 00:37:52,639
that over ninety percent of you are in

874
00:37:49,760 --> 00:37:54,200
Australia hmm Thank You Australians but

875
00:37:52,639 --> 00:37:56,150
thank you to all those other people of

876
00:37:54,199 --> 00:37:57,679
course mostly in America but other

877
00:37:56,150 --> 00:38:00,530
countries like the Netherlands and the

878
00:37:57,679 --> 00:38:02,839
UK and also dotted around the world New

879
00:38:00,530 --> 00:38:05,240
Zealand who subscribe too much

880
00:38:02,840 --> 00:38:06,798
appreciated it means the show keeps

881
00:38:05,239 --> 00:38:15,618
going now

882
00:38:06,798 --> 00:38:17,150
on to skeptics in the pub so a couple of

883
00:38:15,619 --> 00:38:19,009
weeks ago on the skeptic zone we

884

00:38:17,150 --> 00:38:22,338
interviewed a man who wants to go to

885
00:38:19,009 --> 00:38:25,789
Mars and the Mars mission but the catch

886
00:38:22,338 --> 00:38:29,208
is if he's chosen he gets to go that he

887
00:38:25,789 --> 00:38:31,759
goes on one way to come to Mars would

888
00:38:29,208 --> 00:38:33,558
you go if you had the chance to be the

889
00:38:31,759 --> 00:38:37,278
first person who set foot on Mars would

890
00:38:33,559 --> 00:38:39,769
you go on one mic again no way no as

891
00:38:37,278 --> 00:38:43,088
much as I would I mean it's actually the

892
00:38:39,768 --> 00:38:45,618
experience of being good read of all

893
00:38:43,088 --> 00:38:47,389
hang on would I be on my own or what I

894
00:38:45,619 --> 00:38:50,509
haven't come from you would have company

895
00:38:47,389 --> 00:38:54,108
I don't company yeah then then there's

896
00:38:50,509 --> 00:38:56,150
no way in hell and being around other

897
00:38:54,108 --> 00:38:59,708
people for that long thank you Joe

898
00:38:56,150 --> 00:39:03,588

better mood iron for stockings and

899

00:38:59,708 --> 00:39:06,469

Lieutenant a ransom acquaintance I would

900

00:39:03,588 --> 00:39:08,538

only go if I could choose the people

901

00:39:06,469 --> 00:39:14,119

that I would go with and I would choose

902

00:39:08,539 --> 00:39:15,829

joy so she has to go with me what do I

903

00:39:14,119 --> 00:39:17,449

tell what I would tell my husband is

904

00:39:15,829 --> 00:39:20,179

sitting right next to us after that

905

00:39:17,449 --> 00:39:21,739

little um after my destroyer that I

906

00:39:20,179 --> 00:39:25,219

wouldn't go if I had to go with anyone

907

00:39:21,739 --> 00:39:28,440

else oh I mean the Diane are so so

908

00:39:25,219 --> 00:39:31,170

nicely I know it's true well

909

00:39:28,440 --> 00:39:32,639

I think it's a bit I think it's a bit

910

00:39:31,170 --> 00:39:34,108

tough though I think one day we'll be

911

00:39:32,639 --> 00:39:37,848

able to get whopper to the bring us home

912

00:39:34,108 --> 00:39:40,170

again we should wait until oh yeah but

913
00:39:37,849 --> 00:39:42,329
wait then we'd have to come take the

914
00:39:40,170 --> 00:39:45,539
risk of sending people before we knew

915
00:39:42,329 --> 00:39:49,740
that we can do that yeah well we did

916
00:39:45,539 --> 00:39:51,929
that with the moon you you probably

917
00:39:49,739 --> 00:39:55,169
wouldn't go and you probably would it

918
00:39:51,929 --> 00:39:57,509
chose day yes I know Anderson on a

919
00:39:55,170 --> 00:39:59,940
couple of other people as well yeah I

920
00:39:57,510 --> 00:40:02,569
wouldn't want to go on my own I'll leave

921
00:39:59,940 --> 00:40:05,429
you ladies to think about that thank you

922
00:40:02,568 --> 00:40:07,949
now its diminutive editor of the skeptic

923
00:40:05,429 --> 00:40:09,618
magazine Tim if you had the chance to be

924
00:40:07,949 --> 00:40:12,328
the first person who set foot on Mars

925
00:40:09,619 --> 00:40:17,550
but the deal was it was a one-way ticket

926
00:40:12,329 --> 00:40:20,190
would you go to my go alone ya know you

927

00:40:17,550 --> 00:40:22,740
be with all four or five other people

928

00:40:20,190 --> 00:40:25,500
others are they interesting people who

929

00:40:22,739 --> 00:40:27,328
knows probably if they're interesting

930

00:40:25,500 --> 00:40:30,119
alive if they not i think i might have

931

00:40:27,329 --> 00:40:31,980
to leave halfway through the trip leave

932

00:40:30,119 --> 00:40:33,329
halfway through the trip so sorry i'm

933

00:40:31,980 --> 00:40:36,838
just gonna go back so he just take me

934

00:40:33,329 --> 00:40:39,329
back i change her mind I doubted oh yeah

935

00:40:36,838 --> 00:40:41,130
yeah will you could I take what can I

936

00:40:39,329 --> 00:40:45,089
take it wasn't of if is the other four

937

00:40:41,130 --> 00:40:46,470
people were Merrill was it I probably

938

00:40:45,088 --> 00:40:48,269
could have I probably could have I would

939

00:40:46,469 --> 00:40:50,250
cook then again I might be a chance to

940

00:40:48,269 --> 00:40:52,079
murder people on Mars a big booty Emma's

941

00:40:50,250 --> 00:40:54,088
for a movie I think that was a doctor

942
00:40:52,079 --> 00:40:56,670
who plot once it but there are thousands

943
00:40:54,088 --> 00:40:58,710
of people who've signed up to to take

944
00:40:56,670 --> 00:41:00,510
the chance to go to Mars but not come

945
00:40:58,710 --> 00:41:02,220
back yeah but they're probably yeah I

946
00:41:00,510 --> 00:41:06,000
mean what's the chances of them doing it

947
00:41:02,219 --> 00:41:08,730
salima asleep again happen uh yeah I'd

948
00:41:06,000 --> 00:41:11,550
sign up you know sign up in

949
00:41:08,730 --> 00:41:15,179
I'll be the one yesterday their money is

950
00:41:11,550 --> 00:41:17,160
it honey you don't need money on yeah

951
00:41:15,179 --> 00:41:21,899
but I mean you know now get a down

952
00:41:17,159 --> 00:41:24,179
payment now and spend it possibly

953
00:41:21,900 --> 00:41:28,280
chocolates on things I'm Martian dollars

954
00:41:24,179 --> 00:41:30,359
maybe I don't know Boz Boz deposit

955
00:41:28,280 --> 00:41:32,550

actually sort of photo today someone

956

00:41:30,360 --> 00:41:35,430

sent me a photo of the Milky Way from

957

00:41:32,550 --> 00:41:38,970

Mars it's a nuggie way bar on top of a

958

00:41:35,429 --> 00:41:40,500

mars bar are the jokes are just flying

959

00:41:38,969 --> 00:41:46,019

thick and fast here it's characters in

960

00:41:40,500 --> 00:41:47,730

the buffer right now there's a group of

961

00:41:46,019 --> 00:41:50,820

people recruiting people to go to Mars

962

00:41:47,730 --> 00:41:52,710

turn on the radio Pepitone yeah that's

963

00:41:50,820 --> 00:41:54,120

very exciting you might have the chance

964

00:41:52,710 --> 00:41:56,639

to be one of the first people who said

965

00:41:54,119 --> 00:42:00,380

have put on Mars the catch is you don't

966

00:41:56,639 --> 00:42:03,210

come back yeah but would you do it

967

00:42:00,380 --> 00:42:06,800

stupid I mean who would look after my

968

00:42:03,210 --> 00:42:12,599

dog no that's a good point what you know

969

00:42:06,800 --> 00:42:14,100

that we would look after your dog yeah I

970
00:42:12,599 --> 00:42:15,960
see me she still around quite old now

971
00:42:14,099 --> 00:42:18,029
they even so i'd have another dog but it

972
00:42:15,960 --> 00:42:19,710
apparently like you know it's really

973
00:42:18,030 --> 00:42:22,470
quite just leave a dog forever can you

974
00:42:19,710 --> 00:42:24,510
it knows maybe guy you're with you I

975
00:42:22,469 --> 00:42:27,209
don't know so no it's interesting some

976
00:42:24,510 --> 00:42:29,460
people are desperate to go jump you know

977
00:42:27,210 --> 00:42:33,030
chanting in a bit we committed on the

978
00:42:29,460 --> 00:42:36,389
radio I had a wife and kids oh really

979
00:42:33,030 --> 00:42:37,650
yeah wait what does that work they're

980
00:42:36,389 --> 00:42:39,000
not going for eight years or something

981
00:42:37,650 --> 00:42:41,639
are they

982
00:42:39,000 --> 00:42:45,150
ah well if they go and like oh it's not

983
00:42:41,639 --> 00:42:46,619
gonna be good well yeah and then you

984
00:42:45,150 --> 00:42:48,480
know you'd have to face the prospect you

985
00:42:46,619 --> 00:42:50,009
get there you do start them in like your

986
00:42:48,480 --> 00:42:51,809
time was learning is very cold there

987
00:42:50,010 --> 00:42:53,010
anyway you I didn't like the call that's

988
00:42:51,809 --> 00:42:56,670
why I moved to Australia I'm not go to

989
00:42:53,010 --> 00:43:00,270
Mars is that good answer point very good

990
00:42:56,670 --> 00:43:02,869
and very red they're very red spray Reds

991
00:43:00,269 --> 00:43:06,150
right come on red I just don't like cold

992
00:43:02,869 --> 00:43:10,380
Thank You Kathy yes you are can I ask

993
00:43:06,150 --> 00:43:14,280
you that question cuz I'm good right oh

994
00:43:10,380 --> 00:43:16,019
I see see so you would rather live a

995
00:43:14,280 --> 00:43:18,600
happy life on earth and to be the first

996
00:43:16,019 --> 00:43:20,670
person on mass easily easily well that

997
00:43:18,599 --> 00:43:22,980
answers that question support human life

998

00:43:20,670 --> 00:43:25,500
anyway oh no no it is I've built some

999
00:43:22,980 --> 00:43:27,360
sort of bio downloaded for ya you you

1000
00:43:25,500 --> 00:43:29,670
live in an artificial environment sounds

1001
00:43:27,360 --> 00:43:31,590
pretty boring radiation shielding the

1002
00:43:29,670 --> 00:43:33,599
oxygen generation you need this I need a

1003
00:43:31,590 --> 00:43:36,210
source of food radiation shielding is

1004
00:43:33,599 --> 00:43:39,940
the hottest pot to the grind

1005
00:43:36,210 --> 00:43:42,070
inside you cook inside the artificial

1006
00:43:39,940 --> 00:43:44,320
environments ' I've got claustrophobia

1007
00:43:42,070 --> 00:43:46,720
and acrophobia so no it's getting worse

1008
00:43:44,320 --> 00:43:49,510
and worse in it I've got bad news sure

1009
00:43:46,719 --> 00:43:57,730
you're off the mission maybe that's good

1010
00:43:49,510 --> 00:43:58,900
news Tamar's happy not on the one that's

1011
00:43:57,730 --> 00:44:01,869
a good a really high speed internet

1012
00:43:58,900 --> 00:44:03,450

connection otherwise enough oh I say you

1013

00:44:01,869 --> 00:44:07,630

wouldn't go unless you could facebook

1014

00:44:03,449 --> 00:44:09,099

not Facebook so much is into

1015

00:44:07,630 --> 00:44:12,490

interplanetary gaming League or

1016

00:44:09,099 --> 00:44:13,750

something glad to see you people here at

1017

00:44:12,489 --> 00:44:19,989

skeptics in the pub forgot their

1018

00:44:13,750 --> 00:44:22,358

priorities right so much I see you're

1019

00:44:19,989 --> 00:44:23,739

reading the the brochure on places

1020

00:44:22,358 --> 00:44:27,039

evening yeah I don't know it was just

1021

00:44:23,739 --> 00:44:30,129

there I just no no so the questions

1022

00:44:27,039 --> 00:44:31,900

night is there currently recruiting

1023

00:44:30,130 --> 00:44:34,630

people for a possible mission to Mars

1024

00:44:31,900 --> 00:44:38,920

the trick is of course on white one way

1025

00:44:34,630 --> 00:44:41,590

would you take it I also be ten years

1026

00:44:38,920 --> 00:44:43,900

ago I would have said yes but probably

1027
00:44:41,590 --> 00:44:45,608
not now I can unless I think my kids in

1028
00:44:43,900 --> 00:44:48,970
this meeting I think you've got a very

1029
00:44:45,608 --> 00:44:51,219
good point of it the pit opinions a

1030
00:44:48,969 --> 00:44:53,980
little divided but most people say

1031
00:44:51,219 --> 00:44:55,779
they'd rather not go no I'd be up for it

1032
00:44:53,980 --> 00:44:57,730
if I do you have a family to worry about

1033
00:44:55,780 --> 00:45:00,310
I'd be definitely up for it oh yeah

1034
00:44:57,730 --> 00:45:04,000
besides I've only way two thirds of what

1035
00:45:00,309 --> 00:45:06,309
our way now oh now there's something

1036
00:45:04,000 --> 00:45:07,690
people haven't mentioned so far I mean

1037
00:45:06,309 --> 00:45:10,139
when you run around my so you could

1038
00:45:07,690 --> 00:45:12,568
really leap and down they guess like

1039
00:45:10,139 --> 00:45:15,900
like the superhero what's his name the

1040
00:45:12,568 --> 00:45:19,048
guy who win DeMars jhankar joke had a

1041
00:45:15,900 --> 00:45:23,369
year yeah comes leaping around Mars yeah

1042
00:45:19,048 --> 00:45:25,108
so your vote is probably not not now no

1043
00:45:23,369 --> 00:45:27,778
but if you've got me when I was in my

1044
00:45:25,108 --> 00:45:30,900
twenties yeah I probably would have said

1045
00:45:27,778 --> 00:45:32,670
yes okay well it's neither man Tate who

1046
00:45:30,900 --> 00:45:34,740
joined us for a pink anchor a couple of

1047
00:45:32,670 --> 00:45:36,480
weeks ago hello Margaret hello tell you

1048
00:45:34,739 --> 00:45:37,828
I'm finally thank you for covering the

1049
00:45:36,480 --> 00:45:39,778
skeptics in the pub looks like it's a

1050
00:45:37,829 --> 00:45:42,059
packed house tonight it is really didn't

1051
00:45:39,778 --> 00:45:44,159
get a seat we were I thought we'd been

1052
00:45:42,059 --> 00:45:45,660
turned away and you brought some family

1053
00:45:44,159 --> 00:45:49,038
members that have I brought my mother

1054
00:45:45,659 --> 00:45:49,038
and my daughter hello

1055

00:45:50,309 --> 00:45:56,250
three of them sitting here who's

1056
00:45:52,480 --> 00:45:56,250
generations here's the night's question

1057
00:45:56,550 --> 00:46:01,900
recently there's been a movement out to

1058
00:45:59,110 --> 00:46:03,760
recruit people to go to Mars be the

1059
00:46:01,900 --> 00:46:05,650
first person to go to Mars other foot in

1060
00:46:03,760 --> 00:46:09,250
the first group of people go to Mars the

1061
00:46:05,650 --> 00:46:11,349
catch is it's a one-way ticket if you

1062
00:46:09,250 --> 00:46:14,590
had the chance would you go to Mars if

1063
00:46:11,349 --> 00:46:18,369
you knew you could he come back possibly

1064
00:46:14,590 --> 00:46:22,570
yes depended it would depend if I was in

1065
00:46:18,369 --> 00:46:24,609
to euthanasia well I'm not to be honest

1066
00:46:22,570 --> 00:46:26,890
I'm not sure how long you'd last there

1067
00:46:24,610 --> 00:46:28,720
but the point is you could you could say

1068
00:46:26,889 --> 00:46:30,759
for as long as you last that I was the

1069
00:46:28,719 --> 00:46:33,429

first person i won the first people to

1070

00:46:30,760 --> 00:46:34,780

reach another plan you may would live in

1071

00:46:33,429 --> 00:46:37,769

history is there something to get there

1072

00:46:34,780 --> 00:46:41,440

doesn't it oh no no it takes a matter of

1073

00:46:37,769 --> 00:46:44,800

some months not years okay okay you

1074

00:46:41,440 --> 00:46:50,010

don't come back no why don't you come

1075

00:46:44,800 --> 00:46:50,010

back mainly it's cost

1076

00:46:50,670 --> 00:46:57,300

very expensive is our life exam because

1077

00:46:54,690 --> 00:46:58,920

to get there is one thing but then the

1078

00:46:57,300 --> 00:47:00,870

blast off from Mars and make the trip

1079

00:46:58,920 --> 00:47:03,809

home is quite a different story so it's

1080

00:47:00,869 --> 00:47:06,779

actually cheaper if you just go there ok

1081

00:47:03,809 --> 00:47:10,639

ok so we're colonizing Mars you ever

1082

00:47:06,780 --> 00:47:15,600

have any beaches there I'm afraid not

1083

00:47:10,639 --> 00:47:21,929

and showers would be limited yeah and

1084
00:47:15,599 --> 00:47:24,539
hairdryers I just don't know I'll do it

1085
00:47:21,929 --> 00:47:29,369
when I'm about 80 what can I go in my 80

1086
00:47:24,539 --> 00:47:31,769
sure why not youjizz engine right when

1087
00:47:29,369 --> 00:47:35,909
we get wasted it would you go to Mars if

1088
00:47:31,769 --> 00:47:37,469
you knew you couldn't come back yes it's

1089
00:47:35,909 --> 00:47:39,500
one way you got to go there and live

1090
00:47:37,469 --> 00:47:44,209
there for every count on home

1091
00:47:39,500 --> 00:47:48,199
like who like can I go with you and

1092
00:47:44,210 --> 00:47:57,019
everything okay Sophie if you come with

1093
00:47:48,199 --> 00:47:59,089
me you'd go with your mom yeah there we

1094
00:47:57,019 --> 00:48:06,500
go the family that goes to Mars together

1095
00:47:59,090 --> 00:48:08,120
the three generations I can see I've

1096
00:48:06,500 --> 00:48:10,610
been asking everybody else I might as

1097
00:48:08,119 --> 00:48:13,219
well ask myself the same question I have

1098
00:48:10,610 --> 00:48:16,070
thought about this no you know what I

1099
00:48:13,219 --> 00:48:19,699
would I'd leave that glory and honor and

1100
00:48:16,070 --> 00:48:23,240
thrilled to somebody else I think the

1101
00:48:19,699 --> 00:48:26,259
kick I would get out of being part of it

1102
00:48:23,239 --> 00:48:28,729
as in watching and learning about it and

1103
00:48:26,260 --> 00:48:33,440
enjoying it in that respect I think that

1104
00:48:28,730 --> 00:48:35,990
would be okay for me a couple of years

1105
00:48:33,440 --> 00:48:38,059
ago there was a huge dust storm here in

1106
00:48:35,989 --> 00:48:40,579
Sabine the sky was red than the ground

1107
00:48:38,059 --> 00:48:43,349
was red and it was quite eerie and I

1108
00:48:40,579 --> 00:48:46,719
thought if I settling

1109
00:48:43,349 --> 00:48:50,940
so I think a constant read aspect of

1110
00:48:46,719 --> 00:48:50,939
blood I'm not fine unsettling

1111
00:48:51,309 --> 00:48:55,719
and yeah I think I'll leave it for other

1112

00:48:53,769 --> 00:48:58,840
people if you don't leave it for other

1113
00:48:55,719 --> 00:49:01,769
people but it would be a hell of an

1114
00:48:58,840 --> 00:49:01,769
adventure that's for sure

1115
00:49:15,059 --> 00:49:20,380
but Castillo's is an award-winning

1116
00:49:17,530 --> 00:49:23,380
weekly science show in French hosted by

1117
00:49:20,380 --> 00:49:25,660
a bunch of crazy enthusiasts we are

1118
00:49:23,380 --> 00:49:28,030
convinced that the greatest ideas in

1119
00:49:25,659 --> 00:49:30,250
science are quite easy to grasp as long

1120
00:49:28,030 --> 00:49:32,830
as they are presented with passion using

1121
00:49:30,250 --> 00:49:35,050
a vocabulary common to all curious minds

1122
00:49:32,829 --> 00:49:37,779
whatever their academic background if

1123
00:49:35,050 --> 00:49:40,780
any we don't understand French yet I

1124
00:49:37,780 --> 00:49:42,670
it's never too late all our stories have

1125
00:49:40,780 --> 00:49:44,470
a written transcript on the website and

1126
00:49:42,670 --> 00:49:46,570

people from all around the world are

1127

00:49:44,469 --> 00:49:49,659

using our content to learn Maria's

1128

00:49:46,570 --> 00:49:52,120

language our topics range from 0 to

1129

00:49:49,659 --> 00:49:54,730

infinity from evolution to artificial

1130

00:49:52,119 --> 00:49:57,369

life from electromagnetism to the signs

1131

00:49:54,730 --> 00:50:01,269

of introverts we just love mathematics

1132

00:49:57,369 --> 00:50:03,519

science critical thinking so do you want

1133

00:50:01,269 --> 00:50:05,409

to join you can subscribe to the podcast

1134

00:50:03,519 --> 00:50:08,469

for free from our website podcast

1135

00:50:05,409 --> 00:50:10,469

science tops f le that in one word you

1136

00:50:08,469 --> 00:50:13,209

also find us on itunes and soundcloud

1137

00:50:10,469 --> 00:50:14,529

see you soon hopefully had to live

1138

00:50:13,210 --> 00:50:16,269

exactly a year at the others or

1139

00:50:14,530 --> 00:50:19,260

pedestrians

1140

00:50:16,269 --> 00:50:19,259

love

1141
00:50:21,518 --> 00:50:23,578
you

1142
00:50:34,539 --> 00:50:39,880
thank you for listening to the skeptic

1143
00:50:36,519 --> 00:50:41,889
zone I'm still here making my way to the

1144
00:50:39,880 --> 00:50:43,539
pub which is a bit odd because you would

1145
00:50:41,889 --> 00:50:46,629
have just heard the interviews from the

1146
00:50:43,539 --> 00:50:48,400
pub but that's the way the podcast works

1147
00:50:46,630 --> 00:50:51,789
it's all recorded a bit out of sequence

1148
00:50:48,400 --> 00:50:55,329
although what's this the south american

1149
00:50:51,789 --> 00:50:57,429
type fans have set up shop but the other

1150
00:50:55,329 --> 00:51:01,380
end of pitt street more from the other

1151
00:50:57,429 --> 00:51:01,379
busca very musical this afternoon

1152
00:51:01,429 --> 00:51:04,399
to all those people coming to the

1153
00:51:03,170 --> 00:51:06,108
Australian skeptics National Convention

1154
00:51:04,400 --> 00:51:07,730
not long to go now and I can't wait to

1155
00:51:06,108 --> 00:51:10,940
see you all there I'm sure we'll have a

1156
00:51:07,730 --> 00:51:14,269
great a lot of fun and with that music

1157
00:51:10,940 --> 00:51:16,880
heavenly music wafting through them all

1158
00:51:14,269 --> 00:51:24,019
this is Richard Saunders signing off

1159
00:51:16,880 --> 00:51:27,289
from Sydney Australia you've been

1160
00:51:24,019 --> 00:51:31,818
listening to the skeptic zone visit our

1161
00:51:27,289 --> 00:51:34,308
website at www.skeptics.org on TV for

1162
00:51:31,818 --> 00:51:36,940
comments contacts and extra video

1163
00:51:34,309 --> 00:51:36,940
reports