

**The Skeptic Zone**  
**Show 264 - 9 Nov 2013**



**Dr Rob Morrison**

1  
00:00:24,630 --> 00:00:09,100  
welcome to the skeptic zone the podcast

2  
00:00:30,909 --> 00:00:27,550  
hello and welcome to the skeptics on for

3  
00:00:33,550 --> 00:00:30,919  
the ninth of November 2013 Richard

4  
00:00:37,709 --> 00:00:33,560  
Saunders here with you coming to you

5  
00:00:41,319 --> 00:00:37,719  
live from the Pitt Street Mall in Sydney

6  
00:00:43,360 --> 00:00:41,329  
and vaseline more there's a busker down

7  
00:00:45,670 --> 00:00:43,370  
there about to play another number I'm

8  
00:00:47,229 --> 00:00:45,680  
on my way this afternoon to skeptics in

9  
00:00:50,110 --> 00:00:47,239  
the pub here in Sydney our monthly

10  
00:00:52,150 --> 00:00:50,120  
meeting it's always great fun to go to

11  
00:00:54,369 --> 00:00:52,160  
skeptics in the pub and I'll be playing

12  
00:00:57,400 --> 00:00:54,379  
the part of maynard doing some

13  
00:00:59,619 --> 00:00:57,410

interviews with pub goers just have to

14

00:01:02,049 --> 00:00:59,629

think of a topic you're coming up on

15

00:01:04,509 --> 00:01:02,059

this week's show it is may not in fact

16

00:01:07,720 --> 00:01:04,519

maynard's going to be interviewing dr.

17

00:01:10,270 --> 00:01:07,730

Rob Morrison a great skeptic a great

18

00:01:11,590 --> 00:01:10,280

scientist and people in Australia will

19

00:01:14,679 --> 00:01:11,600

certainly remember him as one of the

20

00:01:16,620 --> 00:01:14,689

presenters of the curiosity show the

21

00:01:20,890 --> 00:01:16,630

curiosity show was a brilliant

22

00:01:22,620 --> 00:01:20,900

children's science show in the 1970s

23

00:01:26,190 --> 00:01:22,630

1980s

24

00:01:28,410 --> 00:01:26,200

and recently Robin Dean huntin from the

25

00:01:31,740 --> 00:01:28,420

show have been putting up hundreds of

26  
00:01:33,630 --> 00:01:31,750  
clips onto YouTube so now children all

27  
00:01:36,600 --> 00:01:33,640  
over the world can learn how to make

28  
00:01:38,660 --> 00:01:36,610  
things do things how things work it's

29  
00:01:40,859 --> 00:01:38,670  
just a wonderful thing they're done

30  
00:01:42,990 --> 00:01:40,869  
Maynard's going to chat to rob morrison

31  
00:01:45,830 --> 00:01:43,000  
all about that and what it was like to

32  
00:01:48,440 --> 00:01:45,840  
put together a children's science show

33  
00:01:52,230 --> 00:01:48,450  
that's coming up at the top of the show

34  
00:01:54,389 --> 00:01:52,240  
after that I'm going to be relaying some

35  
00:01:57,480 --> 00:01:54,399  
information from the government about

36  
00:01:58,859 --> 00:01:57,490  
watching out for scams now recently in

37  
00:02:00,690 --> 00:01:58,869  
this country we had the Melbourne Cup

38  
00:02:02,219 --> 00:02:00,700

the biggest horse race in the country

39

00:02:04,320 --> 00:02:02,229

where the whole nation stops in bits on

40

00:02:07,609 --> 00:02:04,330

horses where the government put out some

41

00:02:09,539 --> 00:02:07,619

information via their scam watch service

42

00:02:11,339 --> 00:02:09,549

and I thought it was very good

43

00:02:14,280 --> 00:02:11,349

information so i'll be reading that out

44

00:02:15,900 --> 00:02:14,290

a bit later on watch out for scams also

45

00:02:18,780 --> 00:02:15,910

coming up a few more announcements from

46

00:02:21,600 --> 00:02:18,790

me later in the show those interviews

47

00:02:24,390 --> 00:02:21,610

from skeptics in the pub but right now I

48

00:02:26,690 --> 00:02:24,400

think I'll run around the corner see if

49

00:02:28,949 --> 00:02:26,700

I can't find myself a nice little

50

00:02:44,270 --> 00:02:28,959

California roll while I'm doing that I

51  
00:02:52,539 --> 00:02:49,470  
here's my not spooky action at the

52  
00:02:57,020 --> 00:02:54,830  
ladies and gentlemen as a kid you often

53  
00:02:59,030 --> 00:02:57,030  
mucking around in front the TV going ah

54  
00:03:01,580 --> 00:02:59,040  
yeah cartoons but every once in a while

55  
00:03:03,289 --> 00:03:01,590  
science would come on the television and

56  
00:03:06,470 --> 00:03:03,299  
this is one of the guys who brought that

57  
00:03:08,330 --> 00:03:06,480  
to you Rob Morrison dr. Rob Morrison how

58  
00:03:10,309 --> 00:03:08,340  
do you do how do you do what have you

59  
00:03:13,160 --> 00:03:10,319  
got a doctorate in by the way Rob uh

60  
00:03:14,990 --> 00:03:13,170  
well originally was in brain anatomy and

61  
00:03:16,789 --> 00:03:15,000  
physiology but I went back to the first

62  
00:03:19,729 --> 00:03:16,799  
love of natural history after that oh

63  
00:03:22,339 --> 00:03:19,739

and tell me the curiosity show is a

64

00:03:24,589 --> 00:03:22,349

legend in Australia how did you get such

65

00:03:29,420 --> 00:03:24,599

an intelligent scientific thing on the

66

00:03:32,089 --> 00:03:29,430

air well it was a set of them I'm trying

67

00:03:34,580 --> 00:03:32,099

to keep it brief but essentially it

68

00:03:38,180 --> 00:03:34,590

happened because way back in nineteen

69

00:03:40,099 --> 00:03:38,190

seventies I suppose or 72 the broadcast

70

00:03:42,559 --> 00:03:40,109

control board had a children's

71

00:03:44,720 --> 00:03:42,569

programming committee they suddenly told

72

00:03:46,789 --> 00:03:44,730

all the commercial channels that they

73

00:03:49,369 --> 00:03:46,799

would no longer be allowed to get away

74

00:03:51,770 --> 00:03:49,379

with just making school programs for

75

00:03:55,099 --> 00:03:51,780

little ease they had to start making

76

00:03:57,319 --> 00:03:55,109

programs for children of school going

77

00:03:59,930 --> 00:03:57,329

age and put them on in out of school

78

00:04:01,460 --> 00:03:59,940

hours so suddenly all these television

79

00:04:03,500 --> 00:04:01,470

stations were hit with this requirement

80

00:04:05,720 --> 00:04:03,510

to make programs and they knew nothing

81

00:04:08,379 --> 00:04:05,730

about them except in our Adelaide we'd

82

00:04:12,379 --> 00:04:08,389

always had this kind of convention that

83

00:04:14,270 --> 00:04:12,389

let me channel 9 did that anyway so they

84

00:04:16,610 --> 00:04:14,280

had a head start and that's where

85

00:04:18,199 --> 00:04:16,620

curiosity show is born actually was born

86

00:04:20,300 --> 00:04:18,209

as an offshoot out of heart free beer

87

00:04:22,189 --> 00:04:20,310

believe it or not also as a small

88

00:04:24,830 --> 00:04:22,199

segment on Humphrey beer that's the

89

00:04:26,870 --> 00:04:24,840

large bear with no pants well it wasn't

90

00:04:28,879 --> 00:04:26,880

so much a small segment it was a new

91

00:04:31,310 --> 00:04:28,889

show but because they didn't quite know

92

00:04:33,529 --> 00:04:31,320

how to do it they kind of put Humphrey

93

00:04:36,830 --> 00:04:33,539

in it and then they got people like me

94

00:04:39,439 --> 00:04:36,840

and then happen to try and do stuff the

95

00:04:41,450 --> 00:04:39,449

13 year olds well this idiotic beer was

96

00:04:43,460 --> 00:04:41,460

leaping around just stick elating cuz he

97

00:04:46,040 --> 00:04:43,470

can't talk but did you three year old

98

00:04:48,529 --> 00:04:46,050

you try to explain why although the bear

99

00:04:51,320 --> 00:04:48,539

had evolved to wear clothing that the

100

00:04:54,320 --> 00:04:51,330

bear still refused to wear pants hahaha

101  
00:04:56,300 --> 00:04:54,330  
I can't speak for the beer I spent a

102  
00:04:58,460 --> 00:04:56,310  
year getting the beer out of a show ah

103  
00:05:01,430 --> 00:04:58,470  
the bear but he didn't he didn't belong

104  
00:05:03,440 --> 00:05:01,440  
in a 30 year old [h\_\_\h] I was in fact I

105  
00:05:05,239 --> 00:05:03,450  
think the only person ever to get him to

106  
00:05:08,509 --> 00:05:05,249  
speak on television

107  
00:05:09,979 --> 00:05:08,519  
always never know story snd yes and I

108  
00:05:13,219 --> 00:05:09,989  
guess what he said probably wasn't all

109  
00:05:15,439 --> 00:05:13,229  
that Kitty friendly it wasn't because of

110  
00:05:17,719 --> 00:05:15,449  
involved a Van de Graaff generator it

111  
00:05:19,339 --> 00:05:17,729  
was an accident but he was doing a lot

112  
00:05:21,859 --> 00:05:19,349  
of pointing a bit close to this thing

113  
00:05:24,859 --> 00:05:21,869

and I let him go there's like there's a

114

00:05:27,199 --> 00:05:24,869

crack like a rifle shot and I could blue

115

00:05:29,599 --> 00:05:27,209

fire about a metre long leptin to the

116

00:05:32,689 --> 00:05:29,609

outstretched digit of this unhappy bear

117

00:05:35,029 --> 00:05:32,699

you did a quick 360 and pronounced one

118

00:05:37,399 --> 00:05:35,039

single muffled epithet from inside the

119

00:05:39,139 --> 00:05:37,409

suit and I think that's the only word he

120

00:05:40,999 --> 00:05:39,149

ever said on television I think we all

121

00:05:43,489 --> 00:05:41,009

wanted to do that to Humphrey bear and

122

00:05:45,739 --> 00:05:43,499

and for overseas lessness for what years

123

00:05:48,879 --> 00:05:45,749

did the curiosity show run nationally in

124

00:05:53,899 --> 00:05:48,889

Australia I had ran in Australia from

125

00:05:56,239 --> 00:05:53,909

1972 to 1990 and it was brought up by

126

00:05:58,129 --> 00:05:56,249

the Germans and dubbed into German which

127

00:06:00,259 --> 00:05:58,139

was interesting that what you're still

128

00:06:03,229 --> 00:06:00,269

speaking fluent German which I can't do

129

00:06:06,259 --> 00:06:03,239

and it was in Europe on about 14

130

00:06:09,139 --> 00:06:06,269

channels for I think about six years and

131

00:06:11,059 --> 00:06:09,149

quite a lot of asia-pacific stations

132

00:06:14,289 --> 00:06:11,069

bought it as well so I'm not quite sure

133

00:06:17,419 --> 00:06:14,299

where it was on different stages of the

134

00:06:20,809 --> 00:06:17,429

of the cycle but it was incapable for a

135

00:06:24,350 --> 00:06:20,819

while too but certainly it's its life in

136

00:06:26,299 --> 00:06:24,360

Australia was 18 years and it was

137

00:06:28,339 --> 00:06:26,309

basically doing science experiments

138

00:06:30,409 --> 00:06:28,349

talking to kids about science getting

139

00:06:33,049 --> 00:06:30,419

them excited and what age group were you

140

00:06:35,779 --> 00:06:33,059

mainly going for well we were really

141

00:06:38,329 --> 00:06:35,789

again it had a sort of it had about

142

00:06:40,209 --> 00:06:38,339

three three iterations the when it

143

00:06:43,309 --> 00:06:40,219

started was this offshoot of Humphrey

144

00:06:45,769 --> 00:06:43,319

then it became an hour-long magazine

145

00:06:48,739 --> 00:06:45,779

program sort of all things to all people

146

00:06:51,859 --> 00:06:48,749

for children I hated that program it had

147

00:06:53,869 --> 00:06:51,869

several presenters in it but I was very

148

00:06:55,519 --> 00:06:53,879

unhappy with it and Dean was overseas at

149

00:06:56,989 --> 00:06:55,529

that time and I wrote to him and said I

150

00:06:59,299 --> 00:06:56,999

was going to get out of it he said well

151

00:07:01,759 --> 00:06:59,309

hold on till I get back and we actually

152

00:07:04,339 --> 00:07:01,769

put to the management that we thought it

153

00:07:06,589 --> 00:07:04,349

should half hour show with us doing

154

00:07:08,179 --> 00:07:06,599

science and the other presenters could

155

00:07:10,879 --> 00:07:08,189

then go on to the magazine show which

156

00:07:13,399 --> 00:07:10,889

was also on called channel niners and to

157

00:07:16,040 --> 00:07:13,409

our surprise and pleasure they actually

158

00:07:18,100 --> 00:07:16,050

did that and that's where we started the

159

00:07:20,230 --> 00:07:18,110

show that fortunately everyone remembers

160

00:07:22,240 --> 00:07:20,240

and that's where he started getting the

161

00:07:24,370 --> 00:07:22,250

overseas sales and the Penguins and the

162

00:07:26,080 --> 00:07:24,380

pre shanice and things of that kind so

163

00:07:27,910 --> 00:07:26,090

it was actually your you can actually

164

00:07:30,730 --> 00:07:27,920

then make it a show with our focus and

165

00:07:32,950 --> 00:07:30,740

direction and philosophy which you

166

00:07:35,650 --> 00:07:32,960

couldn't do in a bigger under all things

167

00:07:38,200 --> 00:07:35,660

to all people kind of show so at that

168

00:07:39,400 --> 00:07:38,210

stage we were after I suppose 10 to 13

169

00:07:41,890 --> 00:07:39,410

year olds around about that age group

170

00:07:43,360 --> 00:07:41,900

but we know it was a lot broader because

171

00:07:46,240 --> 00:07:43,370

that's the beauty of science I mean it

172

00:07:49,570 --> 00:07:46,250

doesn't a rainbow is fascinating with

173

00:07:52,210 --> 00:07:49,580

you 5 or 50 so because you're dealing

174

00:07:54,460 --> 00:07:52,220

with science and scientific phenomena

175

00:07:56,230 --> 00:07:54,470

you really had quite a large audience

176

00:08:00,040 --> 00:07:56,240

but we were aiming for that at that age

177

00:08:02,170 --> 00:08:00,050

range dr. Morrison with the philosophy

178

00:08:04,090 --> 00:08:02,180

of children's television shows where do

179

00:08:05,620 --> 00:08:04,100

you think they go wrong when they try

180

00:08:07,240 --> 00:08:05,630

and bring science into it where do they

181

00:08:10,390 --> 00:08:07,250

make the mistake to either make it

182

00:08:12,940 --> 00:08:10,400

either too high or too stupid where do

183

00:08:16,240 --> 00:08:12,950

they usually go wrong well I don't know

184

00:08:18,430 --> 00:08:16,250

that they always do and they've been

185

00:08:20,770 --> 00:08:18,440

some terrific programs for children not

186

00:08:23,440 --> 00:08:20,780

many of them have been science but Owen

187

00:08:27,130 --> 00:08:23,450

scope is on now and I think it's a great

188

00:08:30,790 --> 00:08:27,140

little program I think though speaking

189

00:08:34,030 --> 00:08:30,800

generally and not just for children well

190

00:08:36,160 --> 00:08:34,040

then I stay with children I spent I was

191

00:08:38,110 --> 00:08:36,170

sent overseas to look at American

192

00:08:40,630 --> 00:08:38,120

children's television programs and it

193

00:08:42,219 --> 00:08:40,640

was they were horrified to think that a

194

00:08:44,590 --> 00:08:42,229

couple of old blokes would get up and

195

00:08:48,280 --> 00:08:44,600

talk directly to the camera which Dean

196

00:08:50,590 --> 00:08:48,290

and I did works very well here but in

197

00:08:53,650 --> 00:08:50,600

America you always had to have a cast of

198

00:08:55,810 --> 00:08:53,660

children and they were given don't lines

199

00:08:58,630 --> 00:08:55,820

and they were sort of actors and you

200

00:09:01,390 --> 00:08:58,640

always had to have black hispanic white

201  
00:09:03,160 --> 00:09:01,400  
asian so you're pretty limited in the

202  
00:09:05,710 --> 00:09:03,170  
plots you could get away with people are

203  
00:09:08,760 --> 00:09:05,720  
on television who are speaking with

204  
00:09:11,320 --> 00:09:08,770  
authority who plainly know their subject

205  
00:09:12,940 --> 00:09:11,330  
somehow cut through the screen if you

206  
00:09:15,490 --> 00:09:12,950  
look at Attenborough people love atma

207  
00:09:17,740 --> 00:09:15,500  
because he knows his stuff they can get

208  
00:09:19,450 --> 00:09:17,750  
other presenters who has sort of engaged

209  
00:09:22,120 --> 00:09:19,460  
because they might look terrific or

210  
00:09:23,650 --> 00:09:22,130  
sound wonderful or might be flavor of

211  
00:09:28,150 --> 00:09:23,660  
the month they put them in as a front

212  
00:09:30,880 --> 00:09:28,160  
person to spout science and it cuts no

213  
00:09:32,079 --> 00:09:30,890

ice at all so children are pretty clear

214

00:09:34,150 --> 00:09:32,089

they can pick somebody

215

00:09:36,549 --> 00:09:34,160

you've got the authority to speak about

216

00:09:39,280 --> 00:09:36,559

what they're saying and you can sense

217

00:09:40,629 --> 00:09:39,290

that and even you've been in there were

218

00:09:41,829 --> 00:09:40,639

some subjects I wouldn't handle they

219

00:09:43,989 --> 00:09:41,839

were science but I didn't feel

220

00:09:47,290 --> 00:09:43,999

comfortable they didn't feel like me so

221

00:09:49,389 --> 00:09:47,300

I wouldn't do them and then ISIL divided

222

00:09:52,540 --> 00:09:49,399

it he was more physical science and

223

00:09:55,900 --> 00:09:52,550

machinery and geology whereas I was

224

00:09:58,150 --> 00:09:55,910

animals arts crafts music but all areas

225

00:09:59,920 --> 00:09:58,160

where we felt comfortable but put me

226

00:10:02,519 --> 00:09:59,930

doing one of Dean Sigma's and I think

227

00:10:05,530 --> 00:10:02,529

you would have detected the same kind of

228

00:10:08,439 --> 00:10:05,540

if it's hard to define it but it's a

229

00:10:10,329 --> 00:10:08,449

sense of lack of authority about what

230

00:10:13,119 --> 00:10:10,339

you're saying and I think children can

231

00:10:15,610 --> 00:10:13,129

pick that and as someone with decades of

232

00:10:18,160 --> 00:10:15,620

experience in the TV industry what do

233

00:10:20,319 --> 00:10:18,170

you reckon is the worst television show

234

00:10:23,139 --> 00:10:20,329

for children you've ever seen come on

235

00:10:24,429 --> 00:10:23,149

come on mr. dr. Morrison now you you are

236

00:10:26,439 --> 00:10:24,439

allowed you are allowed to include my

237

00:10:29,079 --> 00:10:26,449

own children's game show mine twist

238

00:10:33,189 --> 00:10:29,089

which is the finest piece of channel 10

239

00:10:36,309 --> 00:10:33,199

production ever made during the 90s I I

240

00:10:37,989 --> 00:10:36,319

wasn't fortunate enough to see that look

241

00:10:40,119 --> 00:10:37,999

I really couldn't come in because a lot

242

00:10:41,919 --> 00:10:40,129

of these things I've seen in pilot forum

243

00:10:43,809 --> 00:10:41,929

and they you know they might have got a

244

00:10:46,480 --> 00:10:43,819

pile it up and I never went to where or

245

00:10:49,239 --> 00:10:46,490

if it did it only went there once but I

246

00:10:52,989 --> 00:10:49,249

think speaking generically I hate shows

247

00:10:55,960 --> 00:10:52,999

the talk down to children I think shows

248

00:10:57,759 --> 00:10:55,970

that sort of have presenters who think

249

00:11:00,759 --> 00:10:57,769

they're talking to a crowd and they talk

250

00:11:02,679 --> 00:11:00,769

to the girls and boys out there they

251  
00:11:04,540 --> 00:11:02,689  
lose them immediately because even if

252  
00:11:06,100 --> 00:11:04,550  
you're in a crowd if you're watching

253  
00:11:08,139 --> 00:11:06,110  
television you're watching it as an

254  
00:11:10,900 --> 00:11:08,149  
individual so you need somebody to talk

255  
00:11:13,360 --> 00:11:10,910  
to you as an individual I hate the shows

256  
00:11:15,429 --> 00:11:13,370  
which really reveal that there are

257  
00:11:18,129 --> 00:11:15,439  
presenters who are doing children shows

258  
00:11:20,980 --> 00:11:18,139  
but for them it's a stepping stone to

259  
00:11:22,569 --> 00:11:20,990  
real telly I like the presenters who are

260  
00:11:24,639 --> 00:11:22,579  
quite happy to be doing children shows

261  
00:11:26,980 --> 00:11:24,649  
and don't use it as a stepping stone to

262  
00:11:29,079 --> 00:11:26,990  
something else and you can only tell

263  
00:11:30,669 --> 00:11:29,089

them to leave I think there are a whole

264

00:11:32,679 --> 00:11:30,679

lot of things you look for you normally

265

00:11:34,090 --> 00:11:32,689

want to see people having fun and kids

266

00:11:36,639 --> 00:11:34,100

want to see people having fun and

267

00:11:38,590 --> 00:11:36,649

enjoying what they're doing yeah I think

268

00:11:41,110 --> 00:11:38,600

that's right and people say you can't

269

00:11:44,259 --> 00:11:41,120

define a good teacher but I think you

270

00:11:45,560 --> 00:11:44,269

can expect certain things one a good

271

00:11:48,050 --> 00:11:45,570

teacher is

272

00:11:49,490 --> 00:11:48,060

go to another subject and that partly

273

00:11:51,530 --> 00:11:49,500

goes back to that authority I talked

274

00:11:53,510 --> 00:11:51,540

about and the freedom to move around in

275

00:11:55,070 --> 00:11:53,520

that subject and experiment and go off

276  
00:11:57,890 --> 00:11:55,080  
in tangents knowing you've got control

277  
00:12:00,860 --> 00:11:57,900  
of it and the other thing is it's got to

278  
00:12:02,570 --> 00:12:00,870  
matter to them that other people find

279  
00:12:04,730 --> 00:12:02,580  
the delight in their subject that they

280  
00:12:06,260 --> 00:12:04,740  
do and you'll see that on all the good

281  
00:12:09,350 --> 00:12:06,270  
teachers they really want other people

282  
00:12:11,960 --> 00:12:09,360  
to see the pleasure in their subject

283  
00:12:14,090 --> 00:12:11,970  
area that they themselves feel and I

284  
00:12:15,980 --> 00:12:14,100  
think if you got these two elements you

285  
00:12:18,980 --> 00:12:15,990  
can have a variety of styles but

286  
00:12:22,760 --> 00:12:18,990  
something about that will be for most

287  
00:12:25,400 --> 00:12:22,770  
people convincing and compelling so I

288  
00:12:27,950 --> 00:12:25,410

think those things have got to be there

289

00:12:29,770 --> 00:12:27,960

in the mix for for good television as

290

00:12:31,790 --> 00:12:29,780

they have to be for good teaching anyway

291

00:12:34,070 --> 00:12:31,800

dr. Morrison what do you think is the

292

00:12:35,930 --> 00:12:34,080

hardest thing to get across to children

293

00:12:38,150 --> 00:12:35,940

as a science concept one of the one the

294

00:12:40,430 --> 00:12:38,160

hardest science concepts it's hard to

295

00:12:42,890 --> 00:12:40,440

get across for me that there's Planck

296

00:12:44,480 --> 00:12:42,900

time and Schrodinger's cat there are two

297

00:12:45,770 --> 00:12:44,490

things that are really hard for me you

298

00:12:48,560 --> 00:12:45,780

probably wouldn't put them in a kids

299

00:12:50,060 --> 00:12:48,570

show but what for you is the one where r

300

00:12:51,650 --> 00:12:50,070

how we're going to show this how can we

301  
00:12:54,020 --> 00:12:51,660  
explain this easily well there are

302  
00:12:56,440 --> 00:12:54,030  
somethings that I'm baffled by and I

303  
00:12:59,030 --> 00:12:56,450  
would never even try I mean I've tried

304  
00:13:01,880 --> 00:12:59,040  
to get the groups with the subatomic

305  
00:13:03,650 --> 00:13:01,890  
physics and there's a point where I can

306  
00:13:05,450 --> 00:13:03,660  
follow it and then suddenly they might

307  
00:13:07,910 --> 00:13:05,460  
as well be spouting science fiction to

308  
00:13:10,190 --> 00:13:07,920  
me I I can't deal with it I know it's

309  
00:13:12,530 --> 00:13:10,200  
true because it works and people I trust

310  
00:13:14,930 --> 00:13:12,540  
say it's true but for me they could be

311  
00:13:16,220 --> 00:13:14,940  
saying almost anything and I wouldn't be

312  
00:13:17,630 --> 00:13:16,230  
able to tell the difference so trying to

313  
00:13:21,050 --> 00:13:17,640

explain that I would have a lot of

314

00:13:22,490 --> 00:13:21,060

trouble with it was it was there

315

00:13:26,660 --> 00:13:22,500

anything that you did repeatedly on the

316

00:13:29,600 --> 00:13:26,670

show that you had trouble with but

317

00:13:31,880 --> 00:13:29,610

before the before the National Security

318

00:13:33,890 --> 00:13:31,890

Agency took you off line there dr.

319

00:13:35,810 --> 00:13:33,900

Morrison you were about to discuss the

320

00:13:37,460 --> 00:13:35,820

most difficult concept you had to get

321

00:13:39,230 --> 00:13:37,470

across on all your years of the

322

00:13:41,480 --> 00:13:39,240

curiosity show in science what was the

323

00:13:44,260 --> 00:13:41,490

hardest thing well it didn't quite work

324

00:13:49,250 --> 00:13:44,270

like that yeah Dylan I would sit down

325

00:13:51,200 --> 00:13:49,260

say to plan 13 episodes ahead and what

326

00:13:53,540 --> 00:13:51,210

we would do often would be just as

327

00:13:56,690 --> 00:13:53,550

Australia a word of might be water or

328

00:13:59,330 --> 00:13:56,700

maybe wheat or blue or something like

329

00:14:00,770 --> 00:13:59,340

that and then you'd put that out in the

330

00:14:04,010 --> 00:14:00,780

sort of middle of a circle and then you

331

00:14:07,190 --> 00:14:04,020

start doing lines out from it so i would

332

00:14:09,100 --> 00:14:07,200

start gravitating into my area of what

333

00:14:13,460 --> 00:14:09,110

would I think about perhaps I'd do a

334

00:14:16,910 --> 00:14:13,470

pond animal or I might do something to

335

00:14:18,890 --> 00:14:16,920

do with the color blue in antiquity how

336

00:14:21,800 --> 00:14:18,900

it's made out of lapis lazuli ground up

337

00:14:24,560 --> 00:14:21,810

so you just pick the subjects that you

338

00:14:26,900 --> 00:14:24,570

knew were interesting to you and you

339

00:14:29,150 --> 00:14:26,910

could handle we didn't have a kind of

340

00:14:32,720 --> 00:14:29,160

brief that said you must deal with these

341

00:14:35,150 --> 00:14:32,730

subjects so we were always in our own

342

00:14:38,540 --> 00:14:35,160

comfort zones and we tended to put on

343

00:14:40,340 --> 00:14:38,550

the stuff that I mean we Ben and I both

344

00:14:42,260 --> 00:14:40,350

grew up with our television so we had a

345

00:14:44,780 --> 00:14:42,270

boyhood of making things and doing

346

00:14:47,690 --> 00:14:44,790

things so you talk back to that a lot

347

00:14:49,370 --> 00:14:47,700

and haul out of that reservoir of your

348

00:14:51,350 --> 00:14:49,380

own experience stuff that you thought

349

00:14:53,090 --> 00:14:51,360

might interest in other audience so

350

00:14:55,790 --> 00:14:53,100

somebody has said to me or your job is

351  
00:14:58,880 --> 00:14:55,800  
to cover Schrodinger probably would have

352  
00:15:00,740 --> 00:14:58,890  
been out of it within a month or there'd

353  
00:15:02,390 --> 00:15:00,750  
be some idiot like me doing that kind of

354  
00:15:04,520 --> 00:15:02,400  
thing and look really what teenage kid

355  
00:15:06,890 --> 00:15:04,530  
wants to know about that well I think

356  
00:15:08,840 --> 00:15:06,900  
they I mean if you could get somebody

357  
00:15:10,940 --> 00:15:08,850  
who can explain it well I think anyone

358  
00:15:13,010 --> 00:15:10,950  
would like to know about that but if you

359  
00:15:14,360 --> 00:15:13,020  
if you get somebody and force them to

360  
00:15:17,660 --> 00:15:14,370  
explain stuff they're not comfortable

361  
00:15:22,030 --> 00:15:17,670  
with it'll show but we we didn't do that

362  
00:15:26,450 --> 00:15:22,040  
we weren't scripted shows were simply

363  
00:15:29,210 --> 00:15:26,460

what we found interesting and we just

364

00:15:30,830 --> 00:15:29,220

did that and how do you feel about more

365

00:15:33,620 --> 00:15:30,840

contemporary shows for an older audience

366

00:15:36,620 --> 00:15:33,630

admittedly like the Mythbusters where

367

00:15:39,110 --> 00:15:36,630

there is a lot strong strong emphasis on

368

00:15:40,760 --> 00:15:39,120

the explosion and the very flashy things

369

00:15:42,200 --> 00:15:40,770

which of course are part of physics and

370

00:15:45,650 --> 00:15:42,210

science and how do you feel about that

371

00:15:47,840 --> 00:15:45,660

well some of Mythbusters are like a lot

372

00:15:50,000 --> 00:15:47,850

i like it when they actually take an

373

00:15:53,030 --> 00:15:50,010

interesting topic and then they use

374

00:15:54,800 --> 00:15:53,040

science and they use isolate variables

375

00:15:57,350 --> 00:15:54,810

and they do a controlled condition and

376

00:15:59,720 --> 00:15:57,360

that's pretty strong scientific stuff

377

00:16:02,210 --> 00:15:59,730

even though they're cool of that i like

378

00:16:04,850 --> 00:16:02,220

the way they analyze something and show

379

00:16:08,210 --> 00:16:04,860

how a scientific approach will sort of

380

00:16:11,030 --> 00:16:08,220

that i am less enthusiastic about the

381

00:16:12,040 --> 00:16:11,040

endless cackling and i hate watching the

382

00:16:14,300 --> 00:16:12,050

sort of

383

00:16:16,490 --> 00:16:14,310

teenagers just saying all going to have

384

00:16:19,100 --> 00:16:16,500

an explosion because it's such a parody

385

00:16:22,640 --> 00:16:19,110

of what science is about and again they

386

00:16:23,900 --> 00:16:22,650

look like people who you know they're

387

00:16:26,780 --> 00:16:23,910

not really tell me interest of the

388

00:16:30,110 --> 00:16:26,790

science interesting the kind of you know

389

00:16:33,020 --> 00:16:30,120

let me be center stage and carry on like

390

00:16:34,850 --> 00:16:33,030

a like a mad thing you know it's are

391

00:16:37,870 --> 00:16:34,860

more interested in the material I think

392

00:16:40,220 --> 00:16:37,880

than the kind of Richie presentation of

393

00:16:43,250 --> 00:16:40,230

that but that's a very American than

394

00:16:46,070 --> 00:16:43,260

average I'd certainly is tell me what is

395

00:16:47,600 --> 00:16:46,080

the one experiment that did go wrong for

396

00:16:49,460 --> 00:16:47,610

you there must have been a few I mean I

397

00:16:51,200 --> 00:16:49,470

know you didn't do big mythbuster type

398

00:16:52,730 --> 00:16:51,210

explosions but things got a bit out of

399

00:16:56,360 --> 00:16:52,740

hand on more than one occasion in the

400

00:16:57,920 --> 00:16:56,370

studio I'm sure well we did have we had

401  
00:16:59,330 --> 00:16:57,930  
a few of them but unfortunately we

402  
00:17:01,940 --> 00:16:59,340  
haven't got much of a bloopers tape

403  
00:17:05,480 --> 00:17:01,950  
because they used to just rewind the

404  
00:17:08,329 --> 00:17:05,490  
tape and then go over it I certainly was

405  
00:17:09,980 --> 00:17:08,339  
greatly mortified once when I did a hot

406  
00:17:11,570 --> 00:17:09,990  
air balloon of us of you know tissue

407  
00:17:13,250 --> 00:17:11,580  
paper honey but he knows has actually

408  
00:17:15,920 --> 00:17:13,260  
taken out of the science curriculum for

409  
00:17:18,170 --> 00:17:15,930  
schools but I did it and gave all the

410  
00:17:20,570 --> 00:17:18,180  
usual sort of cautions about take care

411  
00:17:23,870 --> 00:17:20,580  
take care take care but was horrified to

412  
00:17:27,140 --> 00:17:23,880  
find somebody in the parliament house in

413  
00:17:29,120 --> 00:17:27,150

the Canberra raising questions about

414

00:17:31,430 --> 00:17:29,130

this terrible show and the dangerous

415

00:17:33,560 --> 00:17:31,440

things it was teaching two children oh I

416

00:17:35,750 --> 00:17:33,570

was very desperately was actually from

417

00:17:38,330 --> 00:17:35,760

the syllabus yes I was from the syllabus

418

00:17:40,130 --> 00:17:38,340

I was young enough to be mortified at

419

00:17:43,010 --> 00:17:40,140

that these days I'd be a bit more robust

420

00:17:45,950 --> 00:17:43,020

but that wasn't Pleasant I think

421

00:17:47,570 --> 00:17:45,960

somebody wrote into Dean saying they did

422

00:17:50,900 --> 00:17:47,580

something a [h\_\_h] done and set fire to

423

00:17:52,790 --> 00:17:50,910

their house I think I think they were

424

00:17:55,010 --> 00:17:52,800

probably not doing it the way Dina done

425

00:17:56,570 --> 00:17:55,020

it but you didn't have to be a bit

426

00:17:58,820 --> 00:17:56,580

careful but on the other hand if you

427

00:18:00,530 --> 00:17:58,830

start memorizing it too much and saying

428

00:18:02,570 --> 00:18:00,540

we won't have flame you won't have this

429

00:18:05,540 --> 00:18:02,580

we went of that you've got very little

430

00:18:06,950 --> 00:18:05,550

you can show and if you want to make a

431

00:18:10,580 --> 00:18:06,960

putt putt boat or something with a

432

00:18:12,050 --> 00:18:10,590

candle it requires a candle yes and the

433

00:18:14,450 --> 00:18:12,060

reason I'm talking to is because you've

434

00:18:16,340 --> 00:18:14,460

put a lot of clips from the curiosity

435

00:18:17,840 --> 00:18:16,350

show up on YouTube people to have a look

436

00:18:21,350 --> 00:18:17,850

at for free and have their own go out

437

00:18:22,550 --> 00:18:21,360

yes we have indeed we a lot of people

438

00:18:25,010 --> 00:18:22,560

have said why don't you bring the show

439

00:18:28,490 --> 00:18:25,020

back but I think television is change

440

00:18:30,080 --> 00:18:28,500

so much of nothing it sounds a bit sort

441

00:18:33,380 --> 00:18:30,090

of self-serving but I think we saw the

442

00:18:35,660 --> 00:18:33,390

heyday of it not because it was us but

443

00:18:39,230 --> 00:18:35,670

simply because i think that period in

444

00:18:41,000 --> 00:18:39,240

television was marvelous it was three

445

00:18:43,130 --> 00:18:41,010

channels then a fourth one came along

446

00:18:45,260 --> 00:18:43,140

was all a bit special we saw the

447

00:18:46,760 --> 00:18:45,270

introduction of color when i started i

448

00:18:49,520 --> 00:18:46,770

was actually filming in black and white

449

00:18:53,060 --> 00:18:49,530

film you know so you saw those

450

00:18:54,680 --> 00:18:53,070

television technology's changing because

451

00:18:57,500 --> 00:18:54,690

we must explain to our American

452

00:18:59,900 --> 00:18:57,510

listeners that color television Allen

453

00:19:02,210 --> 00:18:59,910

came to australia in 76 was it was that

454

00:19:04,160 --> 00:19:02,220

the unitary five or six years yeah quite

455

00:19:06,410 --> 00:19:04,170

late and nationally we only had three

456

00:19:09,440 --> 00:19:06,420

sometimes four stations if you were in

457

00:19:12,320 --> 00:19:09,450

newcastle like i was you only had two TV

458

00:19:14,360 --> 00:19:12,330

channels the ABC and the local one which

459

00:19:15,590 --> 00:19:14,370

did not always run the Curiosity show

460

00:19:17,960 --> 00:19:15,600

that's why I haven't seen a lot of you

461

00:19:19,850 --> 00:19:17,970

episodes all right yes we were a

462

00:19:22,340 --> 00:19:19,860

national but as you say when you go into

463

00:19:24,260 --> 00:19:22,350

the regionals it was a bit term a bit

464

00:19:25,970 --> 00:19:24,270

chancy depending on here random and I'd

465

00:19:27,650 --> 00:19:25,980

like to point out we also didn't have FM

466

00:19:29,360 --> 00:19:27,660

radio at that time that only came to

467

00:19:31,040 --> 00:19:29,370

australia in nineteen eighty years of

468

00:19:34,960 --> 00:19:31,050

nothing that's right and of course the

469

00:19:37,820 --> 00:19:34,970

the broadening of delivery has made that

470

00:19:41,000 --> 00:19:37,830

the special attention that you could

471

00:19:42,650 --> 00:19:41,010

give to television has been weakened so

472

00:19:45,140 --> 00:19:42,660

the money is not there because the

473

00:19:46,790 --> 00:19:45,150

advertising flow is not so strong and it

474

00:19:48,740 --> 00:19:46,800

said I used to work for several channels

475

00:19:51,530 --> 00:19:48,750

here and you go into these big beautiful

476

00:19:53,210 --> 00:19:51,540

studios may be full of sets you had to

477

00:19:56,450 --> 00:19:53,220

be quick to get in and out before the

478

00:19:58,700 --> 00:19:56,460

next program recording and where can we

479

00:20:00,800 --> 00:19:58,710

find your videos on YouTube is it simple

480

00:20:03,800 --> 00:20:00,810

simple as a Google googling curiosity

481

00:20:07,850 --> 00:20:03,810

show if you go to what is it it's um I

482

00:20:11,780 --> 00:20:07,860

think if you go to youtube.com slash

483

00:20:13,340 --> 00:20:11,790

curiosity show one word you'll find it

484

00:20:14,840 --> 00:20:13,350

there we've been putting new stuff up

485

00:20:16,790 --> 00:20:14,850

every day we're about to slow down

486

00:20:17,900 --> 00:20:16,800

because well you got to relax you're

487

00:20:19,370 --> 00:20:17,910

going to calm down and going to kick

488

00:20:20,840 --> 00:20:19,380

back with your feet up have a smoke or

489

00:20:22,880 --> 00:20:20,850

something well as a bit of that but also

490

00:20:25,880 --> 00:20:22,890

we have to start thinking about whether

491

00:20:28,250 --> 00:20:25,890

we can we're not putting ads on it so

492

00:20:30,770 --> 00:20:28,260

it's all free but it does cost a bit to

493

00:20:32,630 --> 00:20:30,780

do so we're going to sort of slow it

494

00:20:35,380 --> 00:20:32,640

down a little and have a think about

495

00:20:37,520 --> 00:20:35,390

what what else we might do with it

496

00:20:38,749 --> 00:20:37,530

actually what's your favorite clip

497

00:20:40,999 --> 00:20:38,759

what's your favorite

498

00:20:42,829 --> 00:20:41,009

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

499

00:20:46,849 --> 00:20:42,839

hard to say I've reattached to the

500

00:20:49,819 --> 00:20:46,859

mousetrap racer which I've seen emerge

501  
00:20:52,399 --> 00:20:49,829  
in different programs over the years

502  
00:20:55,069 --> 00:20:52,409  
since I did it you just mail strapped

503  
00:20:56,389 --> 00:20:55,079  
into a racing car and then sometimes do

504  
00:20:57,949 --> 00:20:56,399  
you think well that'll work i wonder if

505  
00:20:59,869 --> 00:20:57,959  
we can make a mousetrap paddlewheeler

506  
00:21:03,109 --> 00:20:59,879  
and you do so one idea will give you

507  
00:21:05,569 --> 00:21:03,119  
about five or six different segments so

508  
00:21:07,519 --> 00:21:05,579  
that one is up there here's a question

509  
00:21:10,789 --> 00:21:07,529  
for you been asked by colleague of mine

510  
00:21:13,279 --> 00:21:10,799  
he's his son has to get their science

511  
00:21:15,109 --> 00:21:13,289  
badge for Cubs and has to do a science

512  
00:21:17,329 --> 00:21:15,119  
experiment using things from around the

513  
00:21:19,159 --> 00:21:17,339

house Oh what do you think would be the

514

00:21:21,069 --> 00:21:19,169

best thing to get his science Cubs badge

515

00:21:23,359 --> 00:21:21,079

just using stuff from around the house

516

00:21:26,719 --> 00:21:23,369

well it depends what the requirements

517

00:21:28,669 --> 00:21:26,729

the science club badge is but a

518

00:21:31,279 --> 00:21:28,679

mousetrap races a pretty good one a

519

00:21:33,019 --> 00:21:31,289

master paddle really they are straight

520

00:21:34,879 --> 00:21:33,029

off the top of the head if it's if it's

521

00:21:37,129 --> 00:21:34,889

a sort of science demonstration there's

522

00:21:38,629 --> 00:21:37,139

one which I had forgotten are done but

523

00:21:40,459 --> 00:21:38,639

it turned up when we're putting stuff on

524

00:21:43,279 --> 00:21:40,469

and I can describe this for your

525

00:21:45,169 --> 00:21:43,289

listeners to try because it's every time

526

00:21:48,409 --> 00:21:45,179

I do it I can't believe it if you get a

527

00:21:50,599 --> 00:21:48,419

potato get a potato a sharp knife and a

528

00:21:52,369 --> 00:21:50,609

piece of newspaper okay fold the

529

00:21:54,469 --> 00:21:52,379

newspaper over and you'll find with a

530

00:21:57,680 --> 00:21:54,479

sharp knife you can cut it very easy

531

00:21:59,959 --> 00:21:57,690

like like a paper knife all right now

532

00:22:02,779 --> 00:21:59,969

you fold another bit of paper over the

533

00:22:05,059 --> 00:22:02,789

knife the sharp edge of it and bring it

534

00:22:07,339 --> 00:22:05,069

down and cut the potato what do you

535

00:22:11,049 --> 00:22:07,349

think will happen to the paper I don't

536

00:22:13,069 --> 00:22:11,059

know well try it you'll be amazed and

537

00:22:14,659 --> 00:22:13,079

well I can tell you what will happen

538

00:22:16,249 --> 00:22:14,669

because you still be amazed evilly you

539

00:22:20,029 --> 00:22:16,259

know will we will be collapse the wave

540

00:22:21,529 --> 00:22:20,039

form now is it but you think the knife

541

00:22:23,839 --> 00:22:21,539

would cut through the paper and then the

542

00:22:25,999 --> 00:22:23,849

potato but then the paper is completely

543

00:22:28,669 --> 00:22:26,009

unscathed it'll just go through the

544

00:22:31,149 --> 00:22:28,679

stator with a knife however sharp that

545

00:22:33,589 --> 00:22:31,159

knife is and when you think about it

546

00:22:36,109 --> 00:22:33,599

when you just cut paper with a sharp

547

00:22:39,139 --> 00:22:36,119

knife the force on one side of the paper

548

00:22:41,239 --> 00:22:39,149

is enormous and on the other is

549

00:22:43,099 --> 00:22:41,249

non-existent so the night goes through

550

00:22:44,989 --> 00:22:43,109

the paper when you put the paper over

551

00:22:47,690 --> 00:22:44,999

the knife and then cut a potato the

552

00:22:50,930 --> 00:22:47,700

force on other side of the the paper is

553

00:22:53,570 --> 00:22:50,940

exactly the same so the paper doesn't

554

00:22:55,250 --> 00:22:53,580

sivad despite the fact that the

555

00:22:57,350 --> 00:22:55,260

combination of the knife and the paper

556

00:23:00,110 --> 00:22:57,360

force their way down through the entire

557

00:23:02,330 --> 00:23:00,120

potato so the paper even those damn is

558

00:23:04,190 --> 00:23:02,340

unscathed but every time I do it I'm

559

00:23:06,050 --> 00:23:04,200

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

560

00:23:07,910 --> 00:23:06,060

good demonstration no I reckon that

561

00:23:11,360 --> 00:23:07,920

could get you science club badge I

562

00:23:13,400 --> 00:23:11,370

reckon I should if you go online if he

563

00:23:15,140 --> 00:23:13,410

goes on load with we've assembled these

564

00:23:18,350 --> 00:23:15,150

scripts into playlists so you can go

565

00:23:21,230 --> 00:23:18,360

into you know making and doing or you

566

00:23:24,710 --> 00:23:21,240

can go into you know as tricks and

567

00:23:27,200 --> 00:23:24,720

puzzles or a heart and crafts or that

568

00:23:29,570 --> 00:23:27,210

one of our staples in the show was to

569

00:23:31,550 --> 00:23:29,580

use stuff around the home we didn't you

570

00:23:33,980 --> 00:23:31,560

know if you're a kid watching a program

571

00:23:35,750 --> 00:23:33,990

on Sunday and you live at it it will pop

572

00:23:38,330 --> 00:23:35,760

and you haven't got a hobby shop and

573

00:23:41,300 --> 00:23:38,340

somebody says go and buy this such and

574

00:23:43,160 --> 00:23:41,310

such and you can't get it then you can't

575

00:23:45,800 --> 00:23:43,170

do anything so you want to learn how to

576  
00:23:47,990 --> 00:23:45,810  
use foam me traes instead of balsa wood

577  
00:23:51,140 --> 00:23:48,000  
you want to learn how to twist your own

578  
00:23:52,940 --> 00:23:51,150  
propeller out of aluminium foil food

579  
00:23:55,940 --> 00:23:52,950  
containers instead of having to buy one

580  
00:23:59,690 --> 00:23:55,950  
so we tend to do a lot of that there's a

581  
00:24:01,940 --> 00:23:59,700  
great deal you learn from making and

582  
00:24:03,470 --> 00:24:01,950  
doing and doing things with your fingers

583  
00:24:05,990 --> 00:24:03,480  
and one of the reasons we've put this

584  
00:24:07,940 --> 00:24:06,000  
stuff online there is that so many

585  
00:24:09,560 --> 00:24:07,950  
parents are watching these kids playing

586  
00:24:11,540 --> 00:24:09,570  
with xboxes in there they've got very

587  
00:24:14,420 --> 00:24:11,550  
mobile thumbs but that's about it and

588  
00:24:16,640 --> 00:24:14,430

they really worried about their children

589

00:24:18,860 --> 00:24:16,650

not making stuff and not doing stuff and

590

00:24:21,740 --> 00:24:18,870

not learning science because a lot of us

591

00:24:23,390 --> 00:24:21,750

not being taught in schools anymore at

592

00:24:25,370 --> 00:24:23,400

least you know you let you're lucky if

593

00:24:29,570 --> 00:24:25,380

you get a school is being how we'll

594

00:24:32,060 --> 00:24:29,580

handle so very very anxious and they

595

00:24:33,740 --> 00:24:32,070

they're buying our dvds and downloading

596

00:24:36,260 --> 00:24:33,750

the sigmas just to have things that

597

00:24:38,210 --> 00:24:36,270

children can do and make and make

598

00:24:40,310 --> 00:24:38,220

working models of and you learn a great

599

00:24:42,650 --> 00:24:40,320

deal by doing that we'll look up the

600

00:24:44,660 --> 00:24:42,660

curiosity show on YouTube and one last

601  
00:24:45,830 --> 00:24:44,670  
controversial question because this is

602  
00:24:47,870 --> 00:24:45,840  
the media we have to give you a

603  
00:24:50,420 --> 00:24:47,880  
controversial question dr. Morrison what

604  
00:24:53,330 --> 00:24:50,430  
branch of pseudoscience annoys you the

605  
00:24:55,280 --> 00:24:53,340  
most is it come on here we go come here

606  
00:24:57,200 --> 00:24:55,290  
whole program that now you're talking to

607  
00:24:59,330 --> 00:24:57,210  
somebody who two years ago is one of the

608  
00:25:01,070 --> 00:24:59,340  
five founders of friends of science and

609  
00:25:02,720 --> 00:25:01,080  
medicine all year though that's why I

610  
00:25:04,520 --> 00:25:02,730  
want to get your dander up I want you

611  
00:25:08,270 --> 00:25:04,530  
coming out and punching someone well

612  
00:25:12,260 --> 00:25:08,280  
where we've got so sick of this pseudo

613  
00:25:13,940 --> 00:25:12,270

health nonsense as being spouted and you

614

00:25:15,530 --> 00:25:13,950

know often by the people are going to

615

00:25:17,990 --> 00:25:15,540

make it quit out of the out of the

616

00:25:20,600 --> 00:25:18,000

dubious say you know whether it's

617

00:25:24,860 --> 00:25:20,610

homeopathy or iridology or reflexology

618

00:25:27,650 --> 00:25:24,870

or you know their vent their about 35 of

619

00:25:29,630 --> 00:25:27,660

these things being currently examined by

620

00:25:31,820 --> 00:25:29,640

the chief medical officer of Australia

621

00:25:34,700 --> 00:25:31,830

to see whether they should be taken off

622

00:25:37,310 --> 00:25:34,710

the list of those which give any sort of

623

00:25:39,650 --> 00:25:37,320

money they shouldn't be they shouldn't

624

00:25:41,780 --> 00:25:39,660

be supported by the taxpayer so we

625

00:25:45,020 --> 00:25:41,790

formed a group and we have about a

626  
00:25:47,270 --> 00:25:45,030  
thousand members now trying to take some

627  
00:25:49,670 --> 00:25:47,280  
of this nonsense on all the [h\_\_\h] on you

628  
00:25:51,830 --> 00:25:49,680  
be a reef you be a secret reflexology

629  
00:25:53,930 --> 00:25:51,840  
fan maybe come on come on you get the I

630  
00:25:56,960 --> 00:25:53,940  
reckon there's been a magnet in your bed

631  
00:25:58,430 --> 00:25:56,970  
at least once in your life well possibly

632  
00:26:00,320 --> 00:25:58,440  
if I was trying to make something but

633  
00:26:01,790 --> 00:26:00,330  
there will be the only reason evolution

634  
00:26:03,320 --> 00:26:01,800  
you can tell us that story next time

635  
00:26:05,420 --> 00:26:03,330  
well that'll be a with a late night

636  
00:26:06,860 --> 00:26:05,430  
version of the interview look Rob thanks

637  
00:26:08,720 --> 00:26:06,870  
very much for your time dr. rob morris

638  
00:26:10,220 --> 00:26:08,730

and as I said curiosity so go check it

639

00:26:12,020 --> 00:26:10,230

out on youtube it's been a great

640

00:26:24,879 --> 00:26:12,030

pleasure to talk to you sir yeah okay

641

00:26:30,649 --> 00:26:28,369

it never ends a friend starts talking

642

00:26:32,090 --> 00:26:30,659

about his new Reiki Master and someone

643

00:26:34,970 --> 00:26:32,100

else just posted about another

644

00:26:37,369 --> 00:26:34,980

all-natural cancer cure that they don't

645

00:26:38,779 --> 00:26:37,379

want you to know about as skeptics we

646

00:26:41,239 --> 00:26:38,789

spend a lot of time trying to educate

647

00:26:42,940 --> 00:26:41,249

and protect those around us but there is

648

00:26:45,830 --> 00:26:42,950

a way that you can reach millions

649

00:26:47,869 --> 00:26:45,840

guerrilla skepticism on Wikipedia is a

650

00:26:49,509 --> 00:26:47,879

group working to keep the best skeptical

651  
00:26:53,049 --> 00:26:49,519  
information at everyone's fingertips

652  
00:26:56,960 --> 00:26:53,059  
join us we need writers editors

653  
00:26:59,299 --> 00:26:56,970  
translators we need you to join us or

654  
00:27:02,659 --> 00:26:59,309  
find out more send a facebook friend

655  
00:27:09,489 --> 00:27:02,669  
request to Susan Berbick that's ger be l

656  
00:27:14,029 --> 00:27:11,840  
welcome to a week in science from our

657  
00:27:16,970 --> 00:27:14,039  
iOS bringing you the science news you

658  
00:27:19,639 --> 00:27:16,980  
need to know maths and politics all

659  
00:27:23,029 --> 00:27:19,649  
mixed up tracking Russian asteroids and

660  
00:27:31,930 --> 00:27:23,039  
a scary massive platypus that's what

661  
00:27:38,180 --> 00:27:35,299  
your ability to solve math problems may

662  
00:27:40,340 --> 00:27:38,190  
depend on your political views over

663  
00:27:42,470 --> 00:27:40,350

1,000 participants in the United States

664

00:27:44,750 --> 00:27:42,480

were first classified according to their

665

00:27:46,970 --> 00:27:44,760

mathematical ability and their political

666

00:27:48,799 --> 00:27:46,980

leaning they were then given a maths

667

00:27:51,230 --> 00:27:48,809

problem using data from a fake

668

00:27:54,230 --> 00:27:51,240

scientific study about the effectiveness

669

00:27:56,090 --> 00:27:54,240

of controversial gun laws people with

670

00:27:58,340 --> 00:27:56,100

good math skills who should have been

671

00:28:00,470 --> 00:27:58,350

able to solve the problem performed

672

00:28:02,810 --> 00:28:00,480

significantly worse when the answer went

673

00:28:05,299 --> 00:28:02,820

against their political stance this

674

00:28:07,430 --> 00:28:05,309

shows that our political views impact on

675

00:28:09,500 --> 00:28:07,440

our logic and reasoning skills which

676  
00:28:12,020 --> 00:28:09,510  
could explain why people uphold certain

677  
00:28:16,730 --> 00:28:12,030  
opinions even in the face of compelling

678  
00:28:19,010 --> 00:28:16,740  
scientific evidence the analysis of the

679  
00:28:21,200 --> 00:28:19,020  
chillier bintz gas droid is in and it

680  
00:28:23,990 --> 00:28:21,210  
shows just how powerful a small asteroid

681  
00:28:26,240 --> 00:28:24,000  
can be the roughly 20 meter diameter

682  
00:28:29,720 --> 00:28:26,250  
asteroid exploded over the Russian town

683  
00:28:32,630 --> 00:28:29,730  
in February 2013 injuring hundreds and

684  
00:28:35,299 --> 00:28:32,640  
causing widespread damage it exploded

685  
00:28:37,280 --> 00:28:35,309  
into smaller fragments around 30 to 45

686  
00:28:40,010 --> 00:28:37,290  
kilometers above the ground while

687  
00:28:42,470 --> 00:28:40,020  
travelling at the huge speed of sixty

688  
00:28:44,860 --> 00:28:42,480

four thousand kilometers per hour the

689

00:28:48,620 --> 00:28:44,870

explosion had the power of around

690

00:28:51,260 --> 00:28:48,630

500,000 tons of TNT and appeared 30

691

00:28:53,180 --> 00:28:51,270

times brighter than the Sun the rock

692

00:28:58,159 --> 00:28:53,190

itself is thought to have originated

693

00:29:00,169 --> 00:28:58,169

from an asteroid called 1999 NC 43 which

694

00:29:02,870 --> 00:29:00,179

is not the same asteroid that made a

695

00:29:05,000 --> 00:29:02,880

close pass in the same week you're

696

00:29:08,210 --> 00:29:05,010

listening to our week in science from RI

697

00:29:10,650 --> 00:29:08,220

oz are now four sides headlines in 30

698

00:29:13,210 --> 00:29:10,660

seconds

699

00:29:15,220 --> 00:29:13,220

children with autism have more neural

700

00:29:17,740 --> 00:29:15,230

connections in their brains compared to

701

00:29:19,960 --> 00:29:17,750

other children which could aid in early

702

00:29:22,150 --> 00:29:19,970

detection scientists have created a

703

00:29:25,060 --> 00:29:22,160

low-fat mince meat that looks and tastes

704

00:29:27,010 --> 00:29:25,070

the same but replaces the fat with fiber

705

00:29:28,900 --> 00:29:27,020

and protein from cows blood it's

706

00:29:31,270 --> 00:29:28,910

estimated around twenty percent of

707

00:29:33,730 --> 00:29:31,280

sun-like stars have orbiting planets

708

00:29:35,680 --> 00:29:33,740

which are earth-sized and may have

709

00:29:37,210 --> 00:29:35,690

liquid water on their surface and a one

710

00:29:40,030 --> 00:29:37,220

meter long platypus has been identified

711

00:29:43,420 --> 00:29:40,040

in Queensland but it's been extinct for

712

00:29:45,550 --> 00:29:43,430

over five million years that's it for

713

00:29:59,530 --> 00:29:45,560

this a week in science I'll see you

714

00:30:03,250 --> 00:29:59,540

right back here next week hey Kenny oh

715

00:30:06,970 --> 00:30:03,260

hi Tom I see at this park yeah yes great

716

00:30:09,760 --> 00:30:06,980

weather oh look a unicorn unicorn there

717

00:30:12,910 --> 00:30:09,770

are no such things as unicorns silly yes

718

00:30:14,500 --> 00:30:12,920

there is no there isn't hey guys what

719

00:30:18,010 --> 00:30:14,510

are you arguing about tom thinks

720

00:30:20,170 --> 00:30:18,020

unicorns are real say so our let's look

721

00:30:22,510 --> 00:30:20,180

us up in the skeptics dictionary the

722

00:30:24,670 --> 00:30:22,520

what how can we do this in this bar

723

00:30:26,170 --> 00:30:24,680

there is the computer here you guys

724

00:30:28,330 --> 00:30:26,180

probably don't know about the skeptics

725

00:30:31,930 --> 00:30:28,340

dictionary app available now for iPhone

726

00:30:35,200 --> 00:30:31,940

iPad and iPod touch in the App Store Wow

727

00:30:37,450 --> 00:30:35,210

cool the app lets you access all of the

728

00:30:39,580 --> 00:30:37,460

great skeptics dictionary articles when

729

00:30:42,460 --> 00:30:39,590

you're on the go here let me look up

730

00:30:45,340 --> 00:30:42,470

unicorns now cool Kenny prepare to be

731

00:30:48,880 --> 00:30:45,350

proven wrong it says here the Unicorn is

732

00:30:50,710 --> 00:30:48,890

a creature from fables aha actually I

733

00:30:52,410 --> 00:30:50,720

see now that someone just dumped their

734

00:31:03,129 --> 00:30:52,420

ice cream cone on that horse's head

735

00:31:14,779 --> 00:31:10,869

from the website wwc em watch gov au

736

00:31:18,109 --> 00:31:14,789

don't back a scammer this spring racing

737

00:31:20,869 --> 00:31:18,119

season scam watch is reminding punters

738

00:31:23,659 --> 00:31:20,879

not to be fooled by con artists pushing

739

00:31:27,229 --> 00:31:23,669

sports investment scams this racing

740

00:31:29,960 --> 00:31:27,239

season foolproof gambling schemes and

741

00:31:32,479 --> 00:31:29,970

betting prediction software trap more

742

00:31:36,259 --> 00:31:32,489

people during the spring racing season

743

00:31:38,930 --> 00:31:36,269

as the race fever takes hold often

744

00:31:42,109 --> 00:31:38,940

promoted as legitimate investments these

745

00:31:44,680 --> 00:31:42,119

schemes simply do not deliver the odds

746

00:31:48,229 --> 00:31:44,690

are you will never see your money again

747

00:31:50,960 --> 00:31:48,239

remember gambling by definition is a

748

00:31:55,669 --> 00:31:50,970

game of chance there is no such thing as

749

00:31:58,669 --> 00:31:55,679

a foolproof bet how these scams work you

750

00:32:00,979 --> 00:31:58,679

receive a call email or letter out of

751  
00:32:03,649 --> 00:32:00,989  
the blue from somebody offering you an

752  
00:32:06,499 --> 00:32:03,659  
opportunity to invest in a sporting

753  
00:32:09,950 --> 00:32:06,509  
betting syndicate or software package

754  
00:32:12,739 --> 00:32:09,960  
that is guaranteed to provide high

755  
00:32:15,259 --> 00:32:12,749  
returns the promoter claims that the

756  
00:32:18,169 --> 00:32:15,269  
scheme is able to predict results based

757  
00:32:21,139 --> 00:32:18,179  
on historical trends track or horse

758  
00:32:23,629 --> 00:32:21,149  
conditions or different odds offered by

759  
00:32:26,379 --> 00:32:23,639  
bookmakers the promoter will try to

760  
00:32:29,149 --> 00:32:26,389  
convince you that this investment

761  
00:32:31,909 --> 00:32:29,159  
opportunity is legitimate through

762  
00:32:34,879 --> 00:32:31,919  
sophisticated brochures or websites that

763  
00:32:37,909 --> 00:32:34,889

contain graphs or diagrams showing large

764

00:32:40,310 --> 00:32:37,919

or turns you are also likely to be

765

00:32:43,009 --> 00:32:40,320

subjected to high pressure sales tactics

766

00:32:45,680 --> 00:32:43,019

to try and get you to sign up on the

767

00:32:48,739 --> 00:32:45,690

spot such as claiming that places are

768

00:32:51,830 --> 00:32:48,749

strictly limited in order to participate

769

00:32:54,909 --> 00:32:51,840

you are required to pay large upfront

770

00:32:57,619 --> 00:32:54,919

costs and ongoing fees and charges

771

00:33:00,710 --> 00:32:57,629

betting syndicates also require you to

772

00:33:03,830 --> 00:33:00,720

put money into a sports betting account

773

00:33:05,389 --> 00:33:03,840

so that promoters can place bets on

774

00:33:07,369 --> 00:33:05,399

behalf of the syndicate with

775

00:33:10,249 --> 00:33:07,379

participants receiving a percentage of

776

00:33:13,669 --> 00:33:10,259

the profits often no bets are actually

777

00:33:15,950 --> 00:33:13,679

placed if you sign up you may initially

778

00:33:16,730 --> 00:33:15,960

find your account shows winnings during

779

00:33:19,400 --> 00:33:16,740

the

780

00:33:21,880 --> 00:33:19,410

I'll period however it's not long before

781

00:33:25,520 --> 00:33:21,890

all your money and the promoters

782

00:33:27,530 --> 00:33:25,530

disappear protect yourself if you

783

00:33:29,540 --> 00:33:27,540

receive a phone call or email out of the

784

00:33:33,070 --> 00:33:29,550

blue with a sports investment

785

00:33:36,320 --> 00:33:33,080

opportunity just hang up or press Delete

786

00:33:38,890 --> 00:33:36,330

always get independent financial or

787

00:33:41,860 --> 00:33:38,900

legal advice if an offer involves

788

00:33:45,140 --> 00:33:41,870

significant money time or commitment

789

00:33:47,720 --> 00:33:45,150

don't be enticed by reports of past

790

00:33:50,930 --> 00:33:47,730

performance or graphs showing high

791

00:33:54,110 --> 00:33:50,940

returns and don't let scammers push your

792

00:33:58,130 --> 00:33:54,120

buttons by pressuring you to sign up on

793

00:34:00,620 --> 00:33:58,140

the spot ask yourself if a stranger knew

794

00:34:03,919 --> 00:34:00,630

a secret to making money why would they

795

00:34:06,160 --> 00:34:03,929

share it if you think you have provided

796

00:34:08,409 --> 00:34:06,170

your account details to a scammer

797

00:34:11,720 --> 00:34:08,419

contact your bank or financial

798

00:34:13,790 --> 00:34:11,730

institution immediately and for those in

799

00:34:21,830 --> 00:34:13,800

Australia you can report scams to the a

800

00:34:39,540 --> 00:34:21,840

Triple C by calling 1 307 95 995 for

801  
00:34:43,720 --> 00:34:41,890  
well as I mentioned earlier in the show

802  
00:34:46,930 --> 00:34:43,730  
the Australian skeptics national

803  
00:34:49,240 --> 00:34:46,940  
convention is almost upon us a few seats

804  
00:34:51,100 --> 00:34:49,250  
left and that's it they're all gone the

805  
00:34:55,080 --> 00:34:51,110  
word is hurry up and get your tickets

806  
00:34:58,390 --> 00:34:55,090  
now at wwn a Chanel skeptics convention

807  
00:35:01,360 --> 00:34:58,400  
org and also don't forget all the

808  
00:35:04,060 --> 00:35:01,370  
wonderful fringe events these include

809  
00:35:07,150 --> 00:35:04,070  
discovery after dark at the CSIRO

810  
00:35:09,250 --> 00:35:07,160  
discovery centre which will be a lot of

811  
00:35:11,920 --> 00:35:09,260  
fun with the mystery investigators and

812  
00:35:15,010 --> 00:35:11,930  
christopher french and well maybe even a

813  
00:35:17,410 --> 00:35:15,020

spoon bending lesson there's also the

814

00:35:20,980 --> 00:35:17,420

british anomalistic psychology in the

815

00:35:24,340 --> 00:35:20,990

pub dinner with chris french and 13

816

00:35:26,440 --> 00:35:24,350

years of weird science at Goldsmiths all

817

00:35:29,290 --> 00:35:26,450

these fringe events are for you to enjoy

818

00:35:30,760 --> 00:35:29,300

our in and around the National

819

00:35:34,630 --> 00:35:30,770

Convention and if you're in Canberra

820

00:35:39,130 --> 00:35:34,640

come along again all the details at wwn

821

00:35:48,640 --> 00:35:39,140

a Chanel skeptics convention dot org see

822

00:35:50,380 --> 00:35:48,650

you there are you enjoying the skeptics

823

00:35:53,050 --> 00:35:50,390

on podcast and wondering where you can

824

00:35:55,030 --> 00:35:53,060

find more skeptical information skeptics

825

00:35:56,950 --> 00:35:55,040

on the net is an online directory for

826

00:35:59,020 --> 00:35:56,960

everything skeptical it features

827

00:36:01,990 --> 00:35:59,030

listings for skeptical podcasts blogs

828

00:36:04,240 --> 00:36:02,000

people local groups and more it also

829

00:36:05,830 --> 00:36:04,250

includes the sotn blog where people in

830

00:36:07,540 --> 00:36:05,840

the know right introductions to their

831

00:36:24,750 --> 00:36:07,550

favorite skeptical and pseudo scientific

832

00:36:30,580 --> 00:36:28,030

now just before we go to skeptics in the

833

00:36:32,920 --> 00:36:30,590

pub and the question I asked everybody

834

00:36:36,660 --> 00:36:32,930

is if you could go to Mars would you do

835

00:36:38,530 --> 00:36:36,670

it even if it means you can't come back

836

00:36:40,810 --> 00:36:38,540

we'll get to that in a minute just

837

00:36:42,100 --> 00:36:40,820

before we do that a little announcement

838

00:36:44,980 --> 00:36:42,110

thank you to all the people who

839

00:36:47,350 --> 00:36:44,990

subscribe of course it means the show

840

00:36:52,150 --> 00:36:47,360

keeps going and you can subscribe by

841

00:36:55,780 --> 00:36:52,160

visiting wwc a petting zoo TV and using

842

00:36:58,140 --> 00:36:55,790

PayPal all those people who do currently

843

00:37:00,400 --> 00:36:58,150

subscribe if you haven't already done so

844

00:37:02,410 --> 00:37:00,410

would you kindly cancel your

845

00:37:05,170 --> 00:37:02,420

subscription zandri subscribe I know

846

00:37:07,420 --> 00:37:05,180

it's a pain and I'm sorry but for

847

00:37:09,730 --> 00:37:07,430

reasons of administration behind the

848

00:37:11,500 --> 00:37:09,740

scenes sort of bookkeeping reasons and

849

00:37:14,050 --> 00:37:11,510

all sorts of things I've had to change

850

00:37:17,290 --> 00:37:14,060

the paypal account a little bit of a a

851  
00:37:19,300 --> 00:37:17,300  
hassle but nevermind most of you have

852  
00:37:20,830 --> 00:37:19,310  
changed over thank you very much but if

853  
00:37:22,800 --> 00:37:20,840  
you're listening to this and you haven't

854  
00:37:25,210 --> 00:37:22,810  
received my message and you haven't

855  
00:37:28,210 --> 00:37:25,220  
cancelled your current subscription but

856  
00:37:31,000 --> 00:37:28,220  
re subscribed I encourage you to do so

857  
00:37:34,120 --> 00:37:31,010  
please do so the old paypal account will

858  
00:37:37,450 --> 00:37:34,130  
be shutting before long sorry to put you

859  
00:37:40,000 --> 00:37:37,460  
to the trouble but your weekly

860  
00:37:42,220 --> 00:37:40,010  
subscription in most cases less than a

861  
00:37:44,680 --> 00:37:42,230  
dollar a week means the show keeps going

862  
00:37:46,840 --> 00:37:44,690  
and looking over the list of people who

863  
00:37:49,750 --> 00:37:46,850

do subscribe it's interesting to see

864

00:37:52,630 --> 00:37:49,760

that over ninety percent of you are in

865

00:37:54,190 --> 00:37:52,640

Australia hmm Thank You Australians but

866

00:37:56,140 --> 00:37:54,200

thank you to all those other people of

867

00:37:57,670 --> 00:37:56,150

course mostly in America but other

868

00:38:00,520 --> 00:37:57,680

countries like the Netherlands and the

869

00:38:02,830 --> 00:38:00,530

UK and also dotted around the world New

870

00:38:05,230 --> 00:38:02,840

Zealand who subscribe too much

871

00:38:06,789 --> 00:38:05,240

appreciated it means the show keeps

872

00:38:15,609 --> 00:38:06,799

going now

873

00:38:17,140 --> 00:38:15,619

on to skeptics in the pub so a couple of

874

00:38:18,999 --> 00:38:17,150

weeks ago on the skeptic zone we

875

00:38:22,329 --> 00:38:19,009

interviewed a man who wants to go to

876

00:38:25,779 --> 00:38:22,339

Mars and the Mars mission but the catch

877

00:38:29,199 --> 00:38:25,789

is if he's chosen he gets to go that he

878

00:38:31,749 --> 00:38:29,209

goes on one way to come to Mars would

879

00:38:33,549 --> 00:38:31,759

you go if you had the chance to be the

880

00:38:37,269 --> 00:38:33,559

first person who set foot on Mars would

881

00:38:39,759 --> 00:38:37,279

you go on one mic again no way no as

882

00:38:43,079 --> 00:38:39,769

much as I would I mean it's actually the

883

00:38:45,609 --> 00:38:43,089

experience of being good read of all

884

00:38:47,380 --> 00:38:45,619

hang on would I be on my own or what I

885

00:38:50,499 --> 00:38:47,390

haven't come from you would have company

886

00:38:54,099 --> 00:38:50,509

I don't company yeah then then there's

887

00:38:56,140 --> 00:38:54,109

no way in hell and being around other

888

00:38:59,699 --> 00:38:56,150

people for that long thank you Joe

889

00:39:03,579 --> 00:38:59,709

better mood iron for stockings and

890

00:39:06,459 --> 00:39:03,589

Lieutenant a ransom acquaintance I would

891

00:39:08,529 --> 00:39:06,469

only go if I could choose the people

892

00:39:14,109 --> 00:39:08,539

that I would go with and I would choose

893

00:39:15,819 --> 00:39:14,119

joy so she has to go with me what do I

894

00:39:17,439 --> 00:39:15,829

tell what I would tell my husband is

895

00:39:20,169 --> 00:39:17,449

sitting right next to us after that

896

00:39:21,729 --> 00:39:20,179

little um after my destroyer that I

897

00:39:25,209 --> 00:39:21,739

wouldn't go if I had to go with anyone

898

00:39:28,430 --> 00:39:25,219

else oh I mean the Diane are so so

899

00:39:31,160 --> 00:39:28,440

nicely I know it's true well

900

00:39:32,630 --> 00:39:31,170

I think it's a bit I think it's a bit

901  
00:39:34,099 --> 00:39:32,640  
tough though I think one day we'll be

902  
00:39:37,839 --> 00:39:34,109  
able to get whopper to the bring us home

903  
00:39:40,160 --> 00:39:37,849  
again we should wait until oh yeah but

904  
00:39:42,319 --> 00:39:40,170  
wait then we'd have to come take the

905  
00:39:45,530 --> 00:39:42,329  
risk of sending people before we knew

906  
00:39:49,730 --> 00:39:45,540  
that we can do that yeah well we did

907  
00:39:51,920 --> 00:39:49,740  
that with the moon you you probably

908  
00:39:55,160 --> 00:39:51,930  
wouldn't go and you probably would it

909  
00:39:57,500 --> 00:39:55,170  
chose day yes I know Anderson on a

910  
00:39:59,930 --> 00:39:57,510  
couple of other people as well yeah I

911  
00:40:02,559 --> 00:39:59,940  
wouldn't want to go on my own I'll leave

912  
00:40:05,420 --> 00:40:02,569  
you ladies to think about that thank you

913  
00:40:07,940 --> 00:40:05,430

now its diminutive editor of the skeptic

914

00:40:09,609 --> 00:40:07,950

magazine Tim if you had the chance to be

915

00:40:12,319 --> 00:40:09,619

the first person who set foot on Mars

916

00:40:17,540 --> 00:40:12,329

but the deal was it was a one-way ticket

917

00:40:20,180 --> 00:40:17,550

would you go to my go alone ya know you

918

00:40:22,730 --> 00:40:20,190

be with all four or five other people

919

00:40:25,490 --> 00:40:22,740

others are they interesting people who

920

00:40:27,319 --> 00:40:25,500

knows probably if they're interesting

921

00:40:30,109 --> 00:40:27,329

alive if they not i think i might have

922

00:40:31,970 --> 00:40:30,119

to leave halfway through the trip leave

923

00:40:33,319 --> 00:40:31,980

halfway through the trip so sorry i'm

924

00:40:36,829 --> 00:40:33,329

just gonna go back so he just take me

925

00:40:39,319 --> 00:40:36,839

back i change her mind I doubted oh yeah

926

00:40:41,120 --> 00:40:39,329

yeah will you could I take what can I

927

00:40:45,079 --> 00:40:41,130

take it wasn't of if is the other four

928

00:40:46,460 --> 00:40:45,089

people were Merrill was it I probably

929

00:40:48,260 --> 00:40:46,470

could have I probably could have I would

930

00:40:50,240 --> 00:40:48,270

cook then again I might be a chance to

931

00:40:52,069 --> 00:40:50,250

murder people on Mars a big booty Emma's

932

00:40:54,079 --> 00:40:52,079

for a movie I think that was a doctor

933

00:40:56,660 --> 00:40:54,089

who plot once it but there are thousands

934

00:40:58,700 --> 00:40:56,670

of people who've signed up to to take

935

00:41:00,500 --> 00:40:58,710

the chance to go to Mars but not come

936

00:41:02,210 --> 00:41:00,510

back yeah but they're probably yeah I

937

00:41:05,990 --> 00:41:02,220

mean what's the chances of them doing it

938

00:41:08,720 --> 00:41:06,000

salima asleep again happen uh yeah I'd

939

00:41:11,540 --> 00:41:08,730

sign up you know sign up in

940

00:41:15,170 --> 00:41:11,550

I'll be the one yesterday their money is

941

00:41:17,150 --> 00:41:15,180

it honey you don't need money on yeah

942

00:41:21,890 --> 00:41:17,160

but I mean you know now get a down

943

00:41:24,170 --> 00:41:21,900

payment now and spend it possibly [h\_\_h]

944

00:41:28,270 --> 00:41:24,180

chocolates on things I'm Martian dollars

945

00:41:30,350 --> 00:41:28,280

maybe I don't know Boz Boz deposit

946

00:41:32,540 --> 00:41:30,360

actually sort of photo today someone

947

00:41:35,420 --> 00:41:32,550

sent me a photo of the Milky Way from

948

00:41:38,960 --> 00:41:35,430

Mars it's a nuggie way bar on top of a

949

00:41:40,490 --> 00:41:38,970

mars bar are the jokes are just flying

950

00:41:46,010 --> 00:41:40,500

thick and fast here it's characters in

951  
00:41:47,720 --> 00:41:46,020  
the buffer right now there's a group of

952  
00:41:50,810 --> 00:41:47,730  
people recruiting people to go to Mars

953  
00:41:52,700 --> 00:41:50,820  
turn on the radio Pepitone yeah that's

954  
00:41:54,110 --> 00:41:52,710  
very exciting you might have the chance

955  
00:41:56,630 --> 00:41:54,120  
to be one of the first people who said

956  
00:42:00,370 --> 00:41:56,640  
have put on Mars the catch is you don't

957  
00:42:03,200 --> 00:42:00,380  
come back yeah but would you do it

958  
00:42:06,790 --> 00:42:03,210  
stupid I mean who would look after my

959  
00:42:12,590 --> 00:42:06,800  
dog no that's a good point what you know

960  
00:42:14,090 --> 00:42:12,600  
that we would look after your dog yeah I

961  
00:42:15,950 --> 00:42:14,100  
see me she still around quite old now

962  
00:42:18,020 --> 00:42:15,960  
they even so i'd have another dog but it

963  
00:42:19,700 --> 00:42:18,030

apparently like you know it's really

964

00:42:22,460 --> 00:42:19,710

quite just leave a dog forever can you

965

00:42:24,500 --> 00:42:22,470

it knows maybe guy you're with you I

966

00:42:27,200 --> 00:42:24,510

don't know so no it's interesting some

967

00:42:29,450 --> 00:42:27,210

people are desperate to go jump you know

968

00:42:33,020 --> 00:42:29,460

chanting in a bit we committed on the

969

00:42:36,380 --> 00:42:33,030

radio I had a wife and kids oh really

970

00:42:37,640 --> 00:42:36,390

yeah wait what does that work they're

971

00:42:38,990 --> 00:42:37,650

not going for eight years or something

972

00:42:41,630 --> 00:42:39,000

are they

973

00:42:45,140 --> 00:42:41,640

ah well if they go and like oh it's not

974

00:42:46,610 --> 00:42:45,150

gonna be good well yeah and then you

975

00:42:48,470 --> 00:42:46,620

know you'd have to face the prospect you

976

00:42:50,000 --> 00:42:48,480

get there you do start them in like your

977

00:42:51,800 --> 00:42:50,010

time was learning is very cold there

978

00:42:53,000 --> 00:42:51,810

anyway you I didn't like the call that's

979

00:42:56,660 --> 00:42:53,010

why I moved to Australia I'm not go to

980

00:43:00,260 --> 00:42:56,670

Mars is that good answer point very good

981

00:43:02,860 --> 00:43:00,270

and very red they're very red spray Reds

982

00:43:06,140 --> 00:43:02,870

right come on red I just don't like cold

983

00:43:10,370 --> 00:43:06,150

Thank You Kathy yes you are can I ask

984

00:43:14,270 --> 00:43:10,380

you that question cuz I'm good right oh

985

00:43:16,010 --> 00:43:14,280

I see see so you would rather live a

986

00:43:18,590 --> 00:43:16,020

happy life on earth and to be the first

987

00:43:20,660 --> 00:43:18,600

person on mass easily easily well that

988

00:43:22,970 --> 00:43:20,670

answers that question support human life

989

00:43:25,490 --> 00:43:22,980

anyway oh no no it is I've built some

990

00:43:27,350 --> 00:43:25,500

sort of bio downloaded for ya you you

991

00:43:29,660 --> 00:43:27,360

live in an artificial environment sounds

992

00:43:31,580 --> 00:43:29,670

pretty boring radiation shielding the

993

00:43:33,590 --> 00:43:31,590

oxygen generation you need this I need a

994

00:43:36,200 --> 00:43:33,600

source of food radiation shielding is

995

00:43:39,930 --> 00:43:36,210

the hottest pot to the grind

996

00:43:42,060 --> 00:43:39,940

inside you cook inside the artificial

997

00:43:44,310 --> 00:43:42,070

environments ' I've got claustrophobia

998

00:43:46,710 --> 00:43:44,320

and acrophobia so no it's getting worse

999

00:43:49,500 --> 00:43:46,720

and worse in it I've got bad news sure

1000

00:43:57,720 --> 00:43:49,510

you're off the mission maybe that's good

1001  
00:43:58,890 --> 00:43:57,730  
news Tamar's happy not on the one that's

1002  
00:44:01,859 --> 00:43:58,900  
a good a really high speed internet

1003  
00:44:03,440 --> 00:44:01,869  
connection otherwise enough oh I say you

1004  
00:44:07,620 --> 00:44:03,450  
wouldn't go unless you could facebook

1005  
00:44:09,090 --> 00:44:07,630  
not Facebook so much is into

1006  
00:44:12,480 --> 00:44:09,100  
interplanetary gaming League or

1007  
00:44:13,740 --> 00:44:12,490  
something glad to see you people here at

1008  
00:44:19,980 --> 00:44:13,750  
skeptics in the pub forgot their

1009  
00:44:22,349 --> 00:44:19,990  
priorities right so much I see you're

1010  
00:44:23,730 --> 00:44:22,359  
reading the the brochure on places

1011  
00:44:27,030 --> 00:44:23,740  
evening yeah I don't know it was just

1012  
00:44:30,120 --> 00:44:27,040  
there I just no no so the questions

1013  
00:44:31,890 --> 00:44:30,130

night is there currently recruiting

1014

00:44:34,620 --> 00:44:31,900

people for a possible mission to Mars

1015

00:44:38,910 --> 00:44:34,630

the trick is of course on white one way

1016

00:44:41,580 --> 00:44:38,920

would you take it I also be ten years

1017

00:44:43,890 --> 00:44:41,590

ago I would have said yes but probably

1018

00:44:45,599 --> 00:44:43,900

not now I can unless I think my kids in

1019

00:44:48,960 --> 00:44:45,609

this meeting I think you've got a very

1020

00:44:51,210 --> 00:44:48,970

good point of it the pit opinions a

1021

00:44:53,970 --> 00:44:51,220

little divided but most people say

1022

00:44:55,770 --> 00:44:53,980

they'd rather not go no I'd be up for it

1023

00:44:57,720 --> 00:44:55,780

if I do you have a family to worry about

1024

00:45:00,300 --> 00:44:57,730

I'd be definitely up for it oh yeah

1025

00:45:03,990 --> 00:45:00,310

besides I've only way two thirds of what

1026

00:45:06,300 --> 00:45:04,000

our way now oh now there's something

1027

00:45:07,680 --> 00:45:06,310

people haven't mentioned so far I mean

1028

00:45:10,130 --> 00:45:07,690

when you run around my so you could

1029

00:45:12,559 --> 00:45:10,140

really leap and down they guess like

1030

00:45:15,890 --> 00:45:12,569

like the superhero what's his name the

1031

00:45:19,039 --> 00:45:15,900

guy who win DeMars jhankar joke had a

1032

00:45:23,359 --> 00:45:19,049

year yeah comes leaping around Mars yeah

1033

00:45:25,099 --> 00:45:23,369

so your vote is probably not not now no

1034

00:45:27,769 --> 00:45:25,109

but if you've got me when I was in my

1035

00:45:30,890 --> 00:45:27,779

twenties yeah I probably would have said

1036

00:45:32,660 --> 00:45:30,900

yes okay well it's neither man Tate who

1037

00:45:34,730 --> 00:45:32,670

joined us for a pink anchor a couple of

1038

00:45:36,470 --> 00:45:34,740

weeks ago hello Margaret hello tell you

1039

00:45:37,819 --> 00:45:36,480

I'm finally thank you for covering the

1040

00:45:39,769 --> 00:45:37,829

skeptics in the pub looks like it's a

1041

00:45:42,049 --> 00:45:39,779

packed house tonight it is really didn't

1042

00:45:44,150 --> 00:45:42,059

get a seat we were I thought we'd been

1043

00:45:45,650 --> 00:45:44,160

turned away and you brought some family

1044

00:45:50,300 --> 00:45:45,660

members that have I brought my mother

1045

00:45:56,540 --> 00:45:52,470

three of them sitting here who's

1046

00:46:01,890 --> 00:45:59,100

recently there's been a movement out to

1047

00:46:03,750 --> 00:46:01,900

recruit people to go to Mars be the

1048

00:46:05,640 --> 00:46:03,760

first person to go to Mars other foot in

1049

00:46:09,240 --> 00:46:05,650

the first group of people go to Mars the

1050

00:46:11,340 --> 00:46:09,250

catch is it's a one-way ticket if you

1051  
00:46:14,580 --> 00:46:11,350  
had the chance would you go to Mars if

1052  
00:46:18,360 --> 00:46:14,590  
you knew you could he come back possibly

1053  
00:46:22,560 --> 00:46:18,370  
yes depended it would depend if I was in

1054  
00:46:24,600 --> 00:46:22,570  
to euthanasia well I'm not to be honest

1055  
00:46:26,880 --> 00:46:24,610  
I'm not sure how long you'd last there

1056  
00:46:28,710 --> 00:46:26,890  
but the point is you could you could say

1057  
00:46:30,750 --> 00:46:28,720  
for as long as you last that I was the

1058  
00:46:33,420 --> 00:46:30,760  
first person i won the first people to

1059  
00:46:34,770 --> 00:46:33,430  
reach another plan you may would live in

1060  
00:46:37,760 --> 00:46:34,780  
history is there something to get there

1061  
00:46:41,430 --> 00:46:37,770  
doesn't it oh no no it takes a matter of

1062  
00:46:44,790 --> 00:46:41,440  
some months not years okay okay you

1063  
00:46:50,660 --> 00:46:44,800

don't come back no why don't you come

1064

00:46:57,290 --> 00:46:54,680

very expensive is our life exam because

1065

00:46:58,910 --> 00:46:57,300

to get there is one thing but then the

1066

00:47:00,860 --> 00:46:58,920

blast off from Mars and make the trip

1067

00:47:03,800 --> 00:47:00,870

home is quite a different story so it's

1068

00:47:06,770 --> 00:47:03,810

actually cheaper if you just go there ok

1069

00:47:10,630 --> 00:47:06,780

ok so we're colonizing Mars you ever

1070

00:47:15,590 --> 00:47:10,640

have any beaches there I'm afraid not

1071

00:47:21,920 --> 00:47:15,600

and showers would be limited yeah and

1072

00:47:24,530 --> 00:47:21,930

hairdryers I just don't know I'll do it

1073

00:47:29,360 --> 00:47:24,540

when I'm about 80 what can I go in my 80

1074

00:47:31,760 --> 00:47:29,370

sure why not youjizz engine right when

1075

00:47:35,900 --> 00:47:31,770

we get wasted it would you go to Mars if

1076

00:47:37,460 --> 00:47:35,910

you knew you couldn't come back yes it's

1077

00:47:39,490 --> 00:47:37,470

one way you got to go there and live

1078

00:47:44,200 --> 00:47:39,500

there for every count on home

1079

00:47:48,190 --> 00:47:44,210

like who like can I go with you and

1080

00:47:57,010 --> 00:47:48,200

everything okay Sophie if you come with

1081

00:47:59,080 --> 00:47:57,020

me you'd go with your mom yeah there we

1082

00:48:06,490 --> 00:47:59,090

go the family that goes to Mars together

1083

00:48:08,110 --> 00:48:06,500

the three generations I can see I've

1084

00:48:10,600 --> 00:48:08,120

been asking everybody else I might as

1085

00:48:13,210 --> 00:48:10,610

well ask myself the same question I have

1086

00:48:16,060 --> 00:48:13,220

thought about this no you know what I

1087

00:48:19,690 --> 00:48:16,070

would I'd leave that glory and honor and

1088

00:48:23,230 --> 00:48:19,700

thrilled to somebody else I think the

1089

00:48:26,250 --> 00:48:23,240

kick I would get out of being part of it

1090

00:48:28,720 --> 00:48:26,260

as in watching and learning about it and

1091

00:48:33,430 --> 00:48:28,730

enjoying it in that respect I think that

1092

00:48:35,980 --> 00:48:33,440

would be okay for me a couple of years

1093

00:48:38,050 --> 00:48:35,990

ago there was a huge dust storm here in

1094

00:48:40,570 --> 00:48:38,060

Sabine the sky was red than the ground

1095

00:48:43,340 --> 00:48:40,580

was red and it was quite eerie and I

1096

00:48:46,710 --> 00:48:43,350

thought if I settling

1097

00:48:51,300 --> 00:48:46,720

so I think a constant read aspect of

1098

00:48:55,710 --> 00:48:53,760

and yeah I think I'll leave it for other

1099

00:48:58,830 --> 00:48:55,720

people if you don't leave it for other

1100

00:49:15,050 --> 00:48:58,840

people but it would be a hell of an

1101  
00:49:20,370 --> 00:49:17,520  
but Castillo's is an award-winning

1102  
00:49:23,370 --> 00:49:20,380  
weekly science show in French hosted by

1103  
00:49:25,650 --> 00:49:23,380  
a bunch of crazy enthusiasts we are

1104  
00:49:28,020 --> 00:49:25,660  
convinced that the greatest ideas in

1105  
00:49:30,240 --> 00:49:28,030  
science are quite easy to grasp as long

1106  
00:49:32,820 --> 00:49:30,250  
as they are presented with passion using

1107  
00:49:35,040 --> 00:49:32,830  
a vocabulary common to all curious minds

1108  
00:49:37,770 --> 00:49:35,050  
whatever their academic background if

1109  
00:49:40,770 --> 00:49:37,780  
any we don't understand French yet I

1110  
00:49:42,660 --> 00:49:40,780  
it's never too late all our stories have

1111  
00:49:44,460 --> 00:49:42,670  
a written transcript on the website and

1112  
00:49:46,560 --> 00:49:44,470  
people from all around the world are

1113  
00:49:49,650 --> 00:49:46,570

using our content to learn Maria's

1114

00:49:52,110 --> 00:49:49,660

language our topics range from 0 to

1115

00:49:54,720 --> 00:49:52,120

infinity from evolution to artificial

1116

00:49:57,360 --> 00:49:54,730

life from electromagnetism to the signs

1117

00:50:01,260 --> 00:49:57,370

of introverts we just love mathematics

1118

00:50:03,510 --> 00:50:01,270

science critical thinking so do you want

1119

00:50:05,400 --> 00:50:03,520

to join you can subscribe to the podcast

1120

00:50:08,460 --> 00:50:05,410

for free from our website podcast

1121

00:50:10,460 --> 00:50:08,470

science tops file that in one word you

1122

00:50:13,200 --> 00:50:10,470

also find us on itunes and soundcloud

1123

00:50:14,520 --> 00:50:13,210

see you soon hopefully had to live

1124

00:50:16,260 --> 00:50:14,530

exactly a year at the others or

1125

00:50:21,509 --> 00:50:16,270

pedestrians

1126

00:50:39,870 --> 00:50:34,530

you

1127

00:50:41,880 --> 00:50:39,880

zone I'm still here making my way to the

1128

00:50:43,530 --> 00:50:41,890

pub which is a bit odd because you would

1129

00:50:46,620 --> 00:50:43,540

have just heard the interviews from the

1130

00:50:48,390 --> 00:50:46,630

pub but that's the way the podcast works

1131

00:50:51,780 --> 00:50:48,400

it's all recorded a bit out of sequence

1132

00:50:55,320 --> 00:50:51,790

although what's this the south american

1133

00:50:57,420 --> 00:50:55,330

type fans have set up shop but the other

1134

00:51:01,420 --> 00:50:57,430

end of pitt street more from the other

1135

00:51:04,390 --> 00:51:03,160

to all those people coming to the

1136

00:51:06,099 --> 00:51:04,400

Australian skeptics National Convention

1137

00:51:07,720 --> 00:51:06,109

not long to go now and I can't wait to

1138

00:51:10,930 --> 00:51:07,730

see you all there I'm sure we'll have a

1139

00:51:14,260 --> 00:51:10,940

great a lot of fun and with that music

1140

00:51:16,870 --> 00:51:14,270

heavenly music wafting through them all

1141

00:51:24,010 --> 00:51:16,880

this is Richard Saunders signing off

1142

00:51:27,280 --> 00:51:24,020

from Sydney Australia you've been

1143

00:51:31,809 --> 00:51:27,290

listening to the skeptic zone visit our

1144

00:51:34,299 --> 00:51:31,819

website at [www.skeptics.org](http://www.skeptics.org) on TV for