

The Skeptic Zone

Show 253 - 25 Aug 2013



Julie Lada

1
00:00:22,630 --> 00:00:09,089
welcome to the skeptic zone the podcast

2
00:00:28,220 --> 00:00:25,280
hello and welcome to the skeptic zone

3
00:00:32,450 --> 00:00:28,230
episode number 253 for the 25th of

4
00:00:35,420 --> 00:00:32,460
august 2013 Richard Saunders here with

5
00:00:36,890 --> 00:00:35,430
you from Sydney Australia and that

6
00:00:40,000 --> 00:00:36,900
little rattle were you heard in the

7
00:00:42,920 --> 00:00:40,010
background was Fred the cat hello Fred

8
00:00:45,619 --> 00:00:42,930
coming up on this week's show we speak

9
00:00:47,810 --> 00:00:45,629
to Julie ladder The Skeptical vet now we

10
00:00:49,340 --> 00:00:47,820
spoke to Julie a couple of years ago

11
00:00:52,040 --> 00:00:49,350
when she was living on the island of San

12
00:00:54,200 --> 00:00:52,050
kits studying to be a vet well she's

13
00:00:55,520 --> 00:00:54,210

almost there she's almost there and

14

00:00:58,460 --> 00:00:55,530

she's going to fill us in on her

15

00:01:01,400 --> 00:00:58,470

progress over the last few years has she

16

00:01:02,810 --> 00:01:01,410

encountered any whooo whooo as she

17

00:01:06,080 --> 00:01:02,820

encountered any mystical or magical

18

00:01:08,749 --> 00:01:06,090

thinking in her at training to be a vet

19

00:01:10,580 --> 00:01:08,759

find out at the top of the show after

20

00:01:13,999 --> 00:01:10,590

that it's a week in science from the

21

00:01:17,180 --> 00:01:14,009

Royal Institution of Australia and dr.

22

00:01:18,620 --> 00:01:17,190

Paul Willis week in science I wonder

23

00:01:21,350 --> 00:01:18,630

what's been happening this week in

24

00:01:23,180 --> 00:01:21,360

science and after that Maynard spooky

25

00:01:26,750 --> 00:01:23,190

action with a final of his three part

26

00:01:29,750 --> 00:01:26,760

series interviewing malo Cassetti who

27

00:01:32,570 --> 00:01:29,760

worked for NASA for many years mala is

28

00:01:34,910 --> 00:01:32,580

going to give his thoughts on the

29

00:01:37,820 --> 00:01:34,920

so-called moon landing hoax and boy does

30

00:01:40,910 --> 00:01:37,830

he have a zinger a real zinger as to why

31

00:01:43,460 --> 00:01:40,920

the moon landing almost certainly

32

00:01:48,170 --> 00:01:43,470

happened and to round off the show we

33

00:01:50,960 --> 00:01:48,180

can have the audio of a video tribute to

34

00:01:54,440 --> 00:01:50,970

dr. Eugenie Scott now dr. Scott was

35

00:01:57,289 --> 00:01:54,450

inducted into the iig the independent

36

00:02:01,880 --> 00:01:57,299

investigations groups Hall of Fame in

37

00:02:05,990 --> 00:02:01,890

Hollywood California not so long ago and

38

00:02:09,020 --> 00:02:06,000

we must think I IG and John rail for the

39

00:02:11,150 --> 00:02:09,030

use of this this audio clip at the end

40

00:02:14,539 --> 00:02:11,160

of the show you'll be hearing about

41

00:02:16,039 --> 00:02:14,549

Eugenie Scott and I've noticed I've been

42

00:02:19,490 --> 00:02:16,049

looking at the calendar and I've noticed

43

00:02:22,789 --> 00:02:19,500

that next week the skeptic zone turns

44

00:02:24,560 --> 00:02:22,799

five years old I can't believe it five

45

00:02:26,150 --> 00:02:24,570

years old five years ago the skeptic

46

00:02:28,360 --> 00:02:26,160

zone was launched at dragoncon in

47

00:02:30,650 --> 00:02:28,370

Atlanta Georgia sorry I can't be there

48

00:02:32,150 --> 00:02:30,660

this year would be fun to be there for

49

00:02:33,050 --> 00:02:32,160

the fifth anniversary of the skeptic

50

00:02:35,240 --> 00:02:33,060

zone

51
00:02:36,830 --> 00:02:35,250
and I think the only reason the skeptic

52
00:02:38,440 --> 00:02:36,840
zone has been going for so long is

53
00:02:41,150 --> 00:02:38,450
because of the very generous

54
00:02:43,220 --> 00:02:41,160
contributions by listeners just like you

55
00:02:45,170 --> 00:02:43,230
if you want to chip in for the skeptic

56
00:02:50,240 --> 00:02:45,180
zone only cost out less than a dollar a

57
00:02:52,850 --> 00:02:50,250
week head to www skeptic zone TV and you

58
00:02:55,009 --> 00:02:52,860
too can chip in to help the skeptic zone

59
00:02:57,259 --> 00:02:55,019
carry on now it's come to my attention

60
00:02:59,509 --> 00:02:57,269
that one of my favorite shows from when

61
00:03:01,250 --> 00:02:59,519
I was growing up the curiosity show and

62
00:03:03,650 --> 00:03:01,260
I'm sure many of my Australian listeners

63
00:03:06,800 --> 00:03:03,660

will remember the curiosity show you can

64

00:03:09,470 --> 00:03:06,810

now seem a lot of the curiosity show on

65

00:03:11,270 --> 00:03:09,480

YouTube in fact the curiosity show has

66

00:03:14,449 --> 00:03:11,280

its own YouTube channel go to youtube

67

00:03:16,610 --> 00:03:14,459

and then curiosity show one word and

68

00:03:20,479 --> 00:03:16,620

you'll find out more or you could look

69

00:03:22,460 --> 00:03:20,489

at the show notes for this episode the

70

00:03:25,610 --> 00:03:22,470

curiosity show what a great show that

71

00:03:27,770 --> 00:03:25,620

was and you can even buy the DVD set

72

00:03:30,710 --> 00:03:27,780

from the curiosity show I thoroughly

73

00:03:33,770 --> 00:03:30,720

recommend it and coming up soon for

74

00:03:37,340 --> 00:03:33,780

those people in victoria in melbourne

75

00:03:40,009 --> 00:03:37,350

and down on the peninsula there i'll be

76
00:03:45,160 --> 00:03:40,019
speaking at the maury alec sporting club

77
00:03:49,009 --> 00:03:45,170
on tuesday the third of sep tember from

78
00:03:51,979 --> 00:03:49,019
730 p.m. and if you want to attend my

79
00:03:54,440 --> 00:03:51,989
talk looking into the mind of the true

80
00:03:56,569 --> 00:03:54,450
believers are the best thing to do would

81
00:03:59,090 --> 00:03:56,579
be to go to the australian skeptics

82
00:04:01,430 --> 00:03:59,100
website skeptics calm today you and

83
00:04:04,400 --> 00:04:01,440
click the link for Richard Saunders talk

84
00:04:07,190 --> 00:04:04,410
how you have to sort of go through the

85
00:04:09,559 --> 00:04:07,200
meetup page and get your tickets that

86
00:04:11,390 --> 00:04:09,569
way it's only four dollars and I might

87
00:04:13,819 --> 00:04:11,400
even go myself I've always wanted to

88
00:04:16,520 --> 00:04:13,829

hear this this guy talk anyway more

89

00:04:19,819 --> 00:04:16,530

information at skeptics calm da to you

90

00:04:23,180 --> 00:04:19,829

and for sydney people stayed tuned stay

91

00:04:25,100 --> 00:04:23,190

tuned on the skeptics website the

92

00:04:28,610 --> 00:04:25,110

australian skeptics website for news

93

00:04:31,730 --> 00:04:28,620

about an upcoming visit from dr. pamela

94

00:04:34,340 --> 00:04:31,740

gay we hope to have details very soon a

95

00:04:37,279 --> 00:04:34,350

visit by dr. pamela gay the wonderful

96

00:04:40,490 --> 00:04:37,289

famous astronomer all right well it's

97

00:04:42,710 --> 00:04:40,500

time for me to run downstairs run

98

00:04:44,770 --> 00:04:42,720

downstairs open up the pantry and look

99

00:04:49,850 --> 00:04:44,780

for

100

00:04:52,340 --> 00:04:49,860

tuna curry oh yes tuna curry I can I can

101
00:05:11,690 --> 00:04:52,350
taste it now all I do that I hope you

102
00:05:14,120 --> 00:05:11,700
enjoy the skeptic zone and joining me

103
00:05:17,060 --> 00:05:14,130
now all the way from beautiful Illinois

104
00:05:20,870 --> 00:05:17,070
a state that I am I must visit one day

105
00:05:24,350 --> 00:05:20,880
it's our old friend the skeptical vet we

106
00:05:26,180 --> 00:05:24,360
might say Julie ladder hello Julie ah hi

107
00:05:27,680 --> 00:05:26,190
now it's been a while since we've spoken

108
00:05:30,050 --> 00:05:27,690
to on the skeptic zone and I think the

109
00:05:34,160 --> 00:05:30,060
last time I spoke to you you are in that

110
00:05:37,700 --> 00:05:34,170
romantic paradise of some kids how did

111
00:05:40,580 --> 00:05:37,710
that all go that went beautifully and I

112
00:05:43,130 --> 00:05:40,590
miss it terribly it's weird when you get

113
00:05:47,000 --> 00:05:43,140

homesick for an island that you lived on

114

00:05:48,409 --> 00:05:47,010

for two and a half years but I am well I

115

00:05:50,390 --> 00:05:48,419

remember seeing some of the photographs

116

00:05:52,610 --> 00:05:50,400

you are posting from some kids that did

117

00:05:54,380 --> 00:05:52,620

look like a tropical paradise with you

118

00:05:57,890 --> 00:05:54,390

and many a swimming pool I seem to

119

00:06:00,710 --> 00:05:57,900

remember flying Paula ocean yeah this

120

00:06:03,860 --> 00:06:00,720

Oliver now of course you went to some

121

00:06:07,100 --> 00:06:03,870

kids to do to follow your dream I guess

122

00:06:10,100 --> 00:06:07,110

it was which is to become a vet and I

123

00:06:12,020 --> 00:06:10,110

understand quite a lot of people do a

124

00:06:13,700 --> 00:06:12,030

similar sort of thing some kids is quite

125

00:06:15,290 --> 00:06:13,710

famous for its veterinary students I

126

00:06:18,140 --> 00:06:15,300

understand yeah wrath students are

127

00:06:20,720 --> 00:06:18,150

really well known we particularly tend

128

00:06:22,850 --> 00:06:20,730

to perform very well in clinics so we do

129

00:06:25,790 --> 00:06:22,860

the three years of our kind of lecture

130

00:06:28,490 --> 00:06:25,800

based didactic learning and then we do a

131

00:06:30,620 --> 00:06:28,500

year of clinical education and we're

132

00:06:35,060 --> 00:06:30,630

pretty well known for for rocking

133

00:06:36,980 --> 00:06:35,070

clinics so far that that's been my

134

00:06:41,510 --> 00:06:36,990

experience I've been doing fairly well

135

00:06:43,640 --> 00:06:41,520

and in my clinical rotations and I was

136

00:06:48,050 --> 00:06:43,650

really scared when I started that I was

137

00:06:50,600 --> 00:06:48,060

going to be kind of shown up by the by

138

00:06:53,330 --> 00:06:50,610

the Illinois students and made to look a

139

00:06:55,670 --> 00:06:53,340

fool but no I'm keeping up fairly well

140

00:06:58,680 --> 00:06:55,680

and holding up my end so

141

00:07:00,390 --> 00:06:58,690

turned out well so this is your fourth

142

00:07:02,700 --> 00:07:00,400

year now you're a fourth-year vetri

143

00:07:04,770 --> 00:07:02,710

student you must have had something

144

00:07:06,659 --> 00:07:04,780

interesting experiences to say the least

145

00:07:09,390 --> 00:07:06,669

along the way in those that in those

146

00:07:12,960 --> 00:07:09,400

years looking at all sorts of animals

147

00:07:16,650 --> 00:07:12,970

yeah one of the really cool things being

148

00:07:18,840 --> 00:07:16,660

done in st. Kitts is um Ross had a kind

149

00:07:21,150 --> 00:07:18,850

of partnership with the local farmers

150

00:07:22,950 --> 00:07:21,160

they have a breed of sheep down there

151
00:07:24,689 --> 00:07:22,960
called the Barbados black-bellied sheep

152
00:07:27,770 --> 00:07:24,699
and the hair sheet instead of a wool

153
00:07:30,060 --> 00:07:27,780
sheet so they're produced for meat and

154
00:07:32,340 --> 00:07:30,070
we had a farmer that we would partner

155
00:07:35,969 --> 00:07:32,350
with where we would take a herd of his

156
00:07:38,070 --> 00:07:35,979
sheep for a semester and we would do

157
00:07:40,260 --> 00:07:38,080
very very minor procedures on them and

158
00:07:42,960 --> 00:07:40,270
then during that time we were also

159
00:07:44,909 --> 00:07:42,970
feeding them and getting them fat and so

160
00:07:46,500 --> 00:07:44,919
it is kind of an exchange where will

161
00:07:48,120 --> 00:07:46,510
fatten up your sheep if you'll let our

162
00:07:49,500 --> 00:07:48,130
students practice on them and then you

163
00:07:52,700 --> 00:07:49,510

can have them back before they go to

164

00:07:55,700 --> 00:07:52,710

slaughter so it's actually really cool

165

00:07:59,219 --> 00:07:55,710

kind of arrangement they have going on

166

00:08:02,370 --> 00:07:59,229

see it seems like it's a mutually

167

00:08:05,570 --> 00:08:02,380

beneficial arrangement yeah it was kind

168

00:08:10,740 --> 00:08:05,580

of sad because you know we named her she

169

00:08:12,240 --> 00:08:10,750

it was Carl oh he came whenever he saw

170

00:08:14,820 --> 00:08:12,250

us we just say his name and he come

171

00:08:16,620 --> 00:08:14,830

running over to us and it was kind of

172

00:08:22,110 --> 00:08:16,630

like having a little dog that you know

173

00:08:23,760 --> 00:08:22,120

is gonna become mutton nobody well to be

174

00:08:26,550 --> 00:08:23,770

indelicate yeah you're absolutely right

175

00:08:29,879 --> 00:08:26,560

i guess that's uh that's what was coming

176
00:08:32,219 --> 00:08:29,889
that was gonna be happening now what

177
00:08:34,320 --> 00:08:32,229
about other animals let's think about

178
00:08:36,149 --> 00:08:34,330
the more the more common animals you

179
00:08:38,579 --> 00:08:36,159
dissociate with a vet in a city for

180
00:08:40,980 --> 00:08:38,589
example cats and dogs and rabbits and

181
00:08:42,180 --> 00:08:40,990
budgies and parrots and all that sort of

182
00:08:46,199 --> 00:08:42,190
thing how do you get on with those

183
00:08:48,720 --> 00:08:46,209
animals I I get along with them very

184
00:08:52,079 --> 00:08:48,730
very well I have three cats of my own

185
00:08:54,540 --> 00:08:52,089
and I grew up with dogs I love exotics I

186
00:08:57,240 --> 00:08:54,550
have a leopard gecko I used to own rat i

187
00:09:00,750 --> 00:08:57,250
fostered for an exotic rescue for seven

188
00:09:03,900 --> 00:09:00,760

years so I've had every kind of lizard

189

00:09:05,760 --> 00:09:03,910

snake creepy crawly thing through my

190

00:09:07,860 --> 00:09:05,770

house that you can think of except for

191

00:09:10,920 --> 00:09:07,870

spiders because my husband would never

192

00:09:12,510 --> 00:09:10,930

come down off the furniture and I get

193

00:09:14,340 --> 00:09:12,520

along with pretty much everything that's

194

00:09:18,480 --> 00:09:14,350

that well I guess you have to if you

195

00:09:20,160 --> 00:09:18,490

really do want to be a vet you wouldn't

196

00:09:21,450 --> 00:09:20,170

want to have a phobia against animals

197

00:09:23,940 --> 00:09:21,460

that's for sure well there are some

198

00:09:26,040 --> 00:09:23,950

people who really don't like certain

199

00:09:27,480 --> 00:09:26,050

species and they have that option that

200

00:09:29,280 --> 00:09:27,490

they never have to practice on them

201
00:09:30,720 --> 00:09:29,290
after vespoli you do have to kind of

202
00:09:31,769 --> 00:09:30,730
have to be a jack of all trades while

203
00:09:35,910 --> 00:09:31,779
you're into that school and do

204
00:09:37,860 --> 00:09:35,920
everything but after that's cool you can

205
00:09:39,630 --> 00:09:37,870
go I'm only going to do cats and there

206
00:09:41,490 --> 00:09:39,640
are people who do feel I'd only practice

207
00:09:43,829 --> 00:09:41,500
or equine only practice and all they see

208
00:09:46,650 --> 00:09:43,839
is horses so you have that option once

209
00:09:48,390 --> 00:09:46,660
you graduate I'm glad to hear it I think

210
00:09:50,790 --> 00:09:48,400
I'd have to specialize on [h__h] gets

211
00:09:53,970 --> 00:09:50,800
myself I'm quite attached to the ones to

212
00:09:57,840 --> 00:09:53,980
run around this house yeah that's a

213
00:09:59,340 --> 00:09:57,850

little limited for me what's your

214

00:10:02,340 --> 00:09:59,350

favorite animal then of all the animals

215

00:10:05,010 --> 00:10:02,350

that you've dealt with examined looked

216

00:10:06,540 --> 00:10:05,020

at pushed prodded and probed do you have

217

00:10:09,000 --> 00:10:06,550

one that you particularly like or you

218

00:10:11,280 --> 00:10:09,010

particularly like to treat I love rats

219

00:10:14,010 --> 00:10:11,290

right so in some they're like little

220

00:10:15,930 --> 00:10:14,020

dogs I just love them I can't have them

221

00:10:19,079 --> 00:10:15,940

unfortunately my husband's really really

222

00:10:21,890 --> 00:10:19,089

really allergic oh yeah we found that

223

00:10:25,050 --> 00:10:21,900

out when he moved in with me engaged

224

00:10:27,990 --> 00:10:25,060

with a HEPA filter and an extra bedroom

225

00:10:32,850 --> 00:10:28,000

we managed to make it work for until

226

00:10:38,100 --> 00:10:32,860

they they went on their way but I love

227

00:10:39,900 --> 00:10:38,110

rats i really like lizards I have a

228

00:10:42,240 --> 00:10:39,910

leopard gecko tattooed on my foot so I'd

229

00:10:44,519 --> 00:10:42,250

better like them and cats I'm gonna have

230

00:10:47,430 --> 00:10:44,529

three cats so obviously I really like

231

00:10:49,560 --> 00:10:47,440

that and has it been um much what you

232

00:10:52,019 --> 00:10:49,570

would expect when you started on this

233

00:10:53,790 --> 00:10:52,029

amazing adventure to become a vet or has

234

00:10:55,350 --> 00:10:53,800

the study being more arduous oh it's

235

00:10:58,620 --> 00:10:55,360

been much more difficult than you would

236

00:11:02,130 --> 00:10:58,630

have imagined oh my goodness I never

237

00:11:06,030 --> 00:11:02,140

anticipated my wildest dreams that it

238

00:11:08,730 --> 00:11:06,040

would be this difficult especially the

239

00:11:11,310 --> 00:11:08,740

subjects like virology where you know

240

00:11:14,880 --> 00:11:11,320

human virology you're studying human

241

00:11:17,940 --> 00:11:14,890

virology it's one species and there's

242

00:11:20,290 --> 00:11:17,950

obviously a number of viruses that we

243

00:11:23,290 --> 00:11:20,300

can become infected with and good

244

00:11:25,750 --> 00:11:23,300

sick but when you compare that to all

245

00:11:27,670 --> 00:11:25,760

the viruses that a dog can get a cat can

246

00:11:30,910 --> 00:11:27,680

get a horse can get a cow can get so

247

00:11:34,210 --> 00:11:30,920

just across the board it's so intense

248

00:11:35,710 --> 00:11:34,220

and it's so difficult I don't know how

249

00:11:39,880 --> 00:11:35,720

to describe it other than is very

250

00:11:41,980 --> 00:11:39,890

arduous and scary Wow would it be easier

251
00:11:43,720 --> 00:11:41,990
just to become a human doctor I don't

252
00:11:46,750 --> 00:11:43,730
want to say that I won't say that you

253
00:11:49,570 --> 00:11:46,760
know we could have this this joking kind

254
00:11:51,310 --> 00:11:49,580
of uh we did we give each other a hard

255
00:11:52,690 --> 00:11:51,320
time MDS and deviouz we kind of give

256
00:11:54,670 --> 00:11:52,700
each other a hard time when we're in

257
00:11:55,750 --> 00:11:54,680
school at least I don't know about once

258
00:11:58,300 --> 00:11:55,760
you're out in the world you're actually

259
00:12:00,070 --> 00:11:58,310
practicing but you know there's this

260
00:12:02,920 --> 00:12:00,080
thing that we like to say in that bed

261
00:12:07,990 --> 00:12:02,930
where reveal we say real doctors treat

262
00:12:09,760 --> 00:12:08,000
more than one species so yeah this is

263
00:12:11,560 --> 00:12:09,770

good natured it's all in good fun but

264

00:12:14,200 --> 00:12:11,570

yeah we do kind of like to give them

265

00:12:16,330 --> 00:12:14,210

everything every once in a while now what

266

00:12:18,640 --> 00:12:16,340

I and we might have discussed this a

267

00:12:20,950 --> 00:12:18,650

couple of years ago but and of course

268

00:12:22,900 --> 00:12:20,960

you had a couple more years since then

269

00:12:26,470 --> 00:12:22,910

both instant kitchen where you are at

270

00:12:28,180 --> 00:12:26,480

the moment what whoo for lack of a

271

00:12:31,540 --> 00:12:28,190

better word have you come across in your

272

00:12:37,630 --> 00:12:31,550

work or superstitions or misconceptions

273

00:12:39,490 --> 00:12:37,640

oh so I know last time I was on the show

274

00:12:43,090 --> 00:12:39,500

we talked about applied kinesiology and

275

00:12:48,340 --> 00:12:43,100

my experiences with that so that was

276

00:12:51,880 --> 00:12:48,350

definitely new tastic but the crazy

277

00:12:57,370 --> 00:12:51,890

thing about that med is that there it's

278

00:13:00,960 --> 00:12:57,380

very accepted right and acupuncture and

279

00:13:03,190 --> 00:13:00,970

chiropractic are huge in that med and

280

00:13:06,160 --> 00:13:03,200

it's been kind of an interesting

281

00:13:08,410 --> 00:13:06,170

experience for me because if you're

282

00:13:10,720 --> 00:13:08,420

skeptical of those things and your

283

00:13:12,970 --> 00:13:10,730

critical of those things you kind of

284

00:13:19,330 --> 00:13:12,980

automatically get labeled as inflexible

285

00:13:21,340 --> 00:13:19,340

and a bit of a hard notes and I've

286

00:13:23,560 --> 00:13:21,350

always considered myself a very pleasant

287

00:13:26,740 --> 00:13:23,570

nice person but I I developed a bit of a

288

00:13:31,060 --> 00:13:26,750

reputation and I just found out recently

289

00:13:32,410 --> 00:13:31,070

so yeah we go we go to ross for two and

290

00:13:34,230 --> 00:13:32,420

a half years on the island and then we

291

00:13:36,819 --> 00:13:34,240

come here for a year

292

00:13:38,650 --> 00:13:36,829

you get paired up with people who you

293

00:13:41,680 --> 00:13:38,660

weren't necessarily like super close

294

00:13:44,530 --> 00:13:41,690

with in your class 2 and so the five of

295

00:13:46,240 --> 00:13:44,540

us came here and one of whom was someone

296

00:13:49,930 --> 00:13:46,250

who I knew but I didn't know very well

297

00:13:51,310 --> 00:13:49,940

and she told me that she never really

298

00:13:53,139 --> 00:13:51,320

got to know me while we were in st.

299

00:13:55,449 --> 00:13:53,149

Kitts even though we sort of ran in the

300

00:13:58,720 --> 00:13:55,459

same circles because she was afraid of

301
00:14:00,129 --> 00:13:58,730
me wow I can't imagine that Julie you're

302
00:14:01,900 --> 00:14:00,139
such a lovely person I'm just trying to

303
00:14:05,769 --> 00:14:01,910
imagine that I was pretty shocked too

304
00:14:09,699 --> 00:14:05,779
like I didn't think I was scary and it's

305
00:14:12,910 --> 00:14:09,709
because she's a witch she does believe

306
00:14:20,470 --> 00:14:12,920
in acupuncture and she's a reiki array

307
00:14:22,960 --> 00:14:20,480
key idea idea idea I see ya I she's a

308
00:14:26,050 --> 00:14:22,970
lovely girl and I really like her and we

309
00:14:28,689 --> 00:14:26,060
get along and we coded dinner and out to

310
00:14:31,269 --> 00:14:28,699
drinks off time and so we get along just

311
00:14:34,750 --> 00:14:31,279
fine I think she was afraid I was gonna

312
00:14:36,370 --> 00:14:34,760
bite her head off and you know if the

313
00:14:37,960 --> 00:14:36,380

professional Curtis day thing where you

314

00:14:39,310 --> 00:14:37,970

kinda have to go okay well I don't

315

00:14:41,769 --> 00:14:39,320

believe in this I'm not really going to

316

00:14:44,980 --> 00:14:41,779

budge on that I'm not going to pretend

317

00:14:48,220 --> 00:14:44,990

I'm okay with it for your comfort but

318

00:14:50,290 --> 00:14:48,230

I'm not gonna sit there and harass you

319

00:14:52,389 --> 00:14:50,300

about it either I'm not gonna change

320

00:14:53,500 --> 00:14:52,399

your mind by yelling at you I think

321

00:14:55,900 --> 00:14:53,510

that's the right attitude to have

322

00:14:58,269 --> 00:14:55,910

because you weren't but absolutely not

323

00:14:59,920 --> 00:14:58,279

but yeah Reiki I haven't heard of but

324

00:15:02,500 --> 00:14:59,930

I'm not surprised that some people out

325

00:15:05,050 --> 00:15:02,510

there using it for pets even the local

326

00:15:08,350 --> 00:15:05,060

the vet local to me just around the

327

00:15:09,910 --> 00:15:08,360

corner which my [h__\h] cats go to there's

328

00:15:13,319 --> 00:15:09,920

a sign they're saying acupuncture

329

00:15:15,880 --> 00:15:13,329

available and I made the mistake of once

330

00:15:17,829 --> 00:15:15,890

questioning that to a vet who was there

331

00:15:20,139 --> 00:15:17,839

and yeah they didn't they didn't they

332

00:15:22,900 --> 00:15:20,149

weren't very impressed but still you

333

00:15:24,960 --> 00:15:22,910

know there's a point where I guess even

334

00:15:28,329 --> 00:15:24,970

the skeptics he just gotta let things

335

00:15:30,100 --> 00:15:28,339

slide a little bit bite your tongue well

336

00:15:35,110 --> 00:15:30,110

we did have a conversation just the

337

00:15:38,319 --> 00:15:35,120

other night actually about she is very

338

00:15:40,990 --> 00:15:38,329

much the sort of that who is going to

339

00:15:42,040 --> 00:15:41,000

offer traditional I don't want say

340

00:15:44,389 --> 00:15:42,050

traditional because then you get into

341

00:15:47,400 --> 00:15:44,399

traditional Chinese medicine

342

00:15:49,949 --> 00:15:47,410

evidence-based medicine what she's going

343

00:15:54,329 --> 00:15:49,959

to practice the best standard of care as

344

00:15:57,419 --> 00:15:54,339

far as our current scientific knowledge

345

00:16:01,559 --> 00:15:57,429

is concerned and she's also going to

346

00:16:05,189 --> 00:16:01,569

offer these other services so I couldn't

347

00:16:08,039 --> 00:16:05,199

really I do have a concern if it's a

348

00:16:10,889 --> 00:16:08,049

monetary issue money comes up a lot in

349

00:16:12,929 --> 00:16:10,899

vet med where the owners say I have X

350

00:16:14,939 --> 00:16:12,939

amount of dollars to spend or I'm tapped

351
00:16:17,400 --> 00:16:14,949
out we can't do any more this is the end

352
00:16:19,169 --> 00:16:17,410
of the road and they might reach that

353
00:16:23,519 --> 00:16:19,179
point sooner if they're spending money

354
00:16:27,539 --> 00:16:23,529
on acupuncture as well as antibiotics so

355
00:16:30,329 --> 00:16:27,549
I kind of have an issue with it but as

356
00:16:33,989 --> 00:16:30,339
long as she's willing to offer best

357
00:16:35,939 --> 00:16:33,999
practices first as a first line of

358
00:16:38,609 --> 00:16:35,949
treatment and then this is a kind of

359
00:16:41,129 --> 00:16:38,619
adjunct then I have less of a problem

360
00:16:44,009 --> 00:16:41,139
with it an interesting dilemma and I'm

361
00:16:47,279 --> 00:16:44,019
sure you're going to follow I find this

362
00:16:48,769 --> 00:16:47,289
rather throughout your career yeah and

363
00:16:51,029 --> 00:16:48,779

you gotta have to choose your battles

364

00:16:54,179 --> 00:16:51,039

yes that's a very good point you will

365

00:16:56,819 --> 00:16:54,189

have to choose your battles now I you've

366

00:16:58,619 --> 00:16:56,829

put it in my mind the image of poor

367

00:17:00,659 --> 00:16:58,629

little cat there on the examining table

368

00:17:02,460 --> 00:17:00,669

and somebody waving their hands

369

00:17:06,419 --> 00:17:02,470

channeling the Reiki energy into the

370

00:17:10,230 --> 00:17:06,429

skin to the cat oh dear and kept looking

371

00:17:15,119 --> 00:17:10,240

up going what are you doing all cats are

372

00:17:16,889 --> 00:17:15,129

skeptic by nature I think very much sir

373

00:17:19,799 --> 00:17:16,899

they're skeptical about you they're

374

00:17:22,289 --> 00:17:19,809

skeptical of their new food pretty much

375

00:17:24,419 --> 00:17:22,299

everything I think you're right now how

376

00:17:26,649 --> 00:17:24,429

long to go before you get that magic

377

00:17:29,019 --> 00:17:26,659

certificate all the room

378

00:17:32,950 --> 00:17:29,029

what if it gets out of there not very

379

00:17:35,979 --> 00:17:32,960

sure i am going to be taking my nav Lee

380

00:17:39,669 --> 00:17:35,989

Oh Lord let me see if I can remember

381

00:17:41,799 --> 00:17:39,679

north american veterinary licensing exam

382

00:17:43,749 --> 00:17:41,809

be sure that because the first i thought

383

00:17:46,509 --> 00:17:43,759

was like national american and that made

384

00:17:49,989 --> 00:17:46,519

no sense um I believe is north american

385

00:17:53,259 --> 00:17:49,999

veterinary lighting singing exam and I'm

386

00:17:56,259 --> 00:17:53,269

taking that in November so coming up

387

00:18:01,210 --> 00:17:56,269

very soon it's about 600 multiple choice

388

00:18:05,139 --> 00:18:01,220

questions a very very long exam covering

389

00:18:07,049 --> 00:18:05,149

dog cat horse cow and some of your

390

00:18:11,639 --> 00:18:07,059

exotic species like birds and reptiles

391

00:18:14,049 --> 00:18:11,649

it's the it's pretty intense it's

392

00:18:18,759 --> 00:18:14,059

pass/fail you become a doctor you don't

393

00:18:20,019 --> 00:18:18,769

and wow that's exciting but what are you

394

00:18:26,909 --> 00:18:20,029

doing talking to me you should be

395

00:18:31,599 --> 00:18:26,919

studying yeah I bought like an online

396

00:18:35,519 --> 00:18:31,609

mock exam I think that you can use I

397

00:18:38,109 --> 00:18:35,529

bought a couple of review books and just

398

00:18:40,659 --> 00:18:38,119

going to be crunch time from now until

399

00:18:42,729 --> 00:18:40,669

November well that's great you know what

400

00:18:45,580 --> 00:18:42,739

Julie I think in the future the way

401
00:18:46,930 --> 00:18:45,590
technology is going when a couple of

402
00:18:48,849 --> 00:18:46,940
years down the track i'll be able to

403
00:18:50,919 --> 00:18:48,859
have a consultation with you for my

404
00:18:53,019 --> 00:18:50,929
[h__h] cats or whatever animal i have all

405
00:18:54,820 --> 00:18:53,029
virtual i'll put the cat there and

406
00:18:56,259 --> 00:18:54,830
you'll see it on your virtual screen and

407
00:18:58,239 --> 00:18:56,269
you'll be able to recommend the best

408
00:19:00,700 --> 00:18:58,249
best treatment for it i've looked

409
00:19:03,039 --> 00:19:00,710
forward about it oh no the physical exam

410
00:19:06,009 --> 00:19:03,049
is key you've got to get your hands on

411
00:19:09,249 --> 00:19:06,019
the animal doesn't work that way do you

412
00:19:10,690 --> 00:19:09,259
enjoy just interacting with animals I

413
00:19:15,460 --> 00:19:10,700

think you must be the sort of person who

414

00:19:18,700 --> 00:19:15,470

would yeah it's funny because it never

415

00:19:20,440 --> 00:19:18,710

wears off you know every little girl

416

00:19:22,359 --> 00:19:20,450

wants to be a veterinarian which is it

417

00:19:24,460 --> 00:19:22,369

when she's young you should just like

418

00:19:26,080 --> 00:19:24,470

the horsies and the kitties and you know

419

00:19:29,019 --> 00:19:26,090

you kind of lose your mind and that

420

00:19:32,169 --> 00:19:29,029

never goes away you know I still to this

421

00:19:34,749 --> 00:19:32,179

day if I see a horse all school run up

422

00:19:36,249 --> 00:19:34,759

and start cutting it and I still

423

00:19:37,420 --> 00:19:36,259

devolved into like an eight-year-old

424

00:19:40,060 --> 00:19:37,430

little girl

425

00:19:42,700 --> 00:19:40,070

I'm not surprised well look Julie I'm I

426

00:19:45,400 --> 00:19:42,710

don't know whether to wish you luck or

427

00:19:48,010 --> 00:19:45,410

not in a couple of months I don't think

428

00:19:49,570 --> 00:19:48,020

you'll need it I think that I think

429

00:19:51,280 --> 00:19:49,580

you'll be a splendid vet and I look

430

00:19:53,950 --> 00:19:51,290

forward to chatting to you afterwards

431

00:19:55,900 --> 00:19:53,960

maybe and maybe this time next year and

432

00:19:59,530 --> 00:19:55,910

we can catch up and see how you're going

433

00:20:02,290 --> 00:19:59,540

yeah sure well Julie look I'm so pleased

434

00:20:04,620 --> 00:20:02,300

that you have taken up this path in life

435

00:20:07,420 --> 00:20:04,630

because I think it's wonderful that

436

00:20:08,920 --> 00:20:07,430

bright people like you follow medicine

437

00:20:12,580 --> 00:20:08,930

and veteran medicine that's just

438

00:20:14,260 --> 00:20:12,590

fantastic evidence-based and you'll be

439

00:20:16,600 --> 00:20:14,270

able to help out a lot of people and a

440

00:20:28,060 --> 00:20:16,610

lot of animals so Julie letter thank you

441

00:20:30,910 --> 00:20:28,070

very much thank you here's a message

442

00:20:33,640 --> 00:20:30,920

from our friends at 60 second science

443

00:20:35,500 --> 00:20:33,650

the wonderful outreach opportunity

444

00:20:38,170 --> 00:20:35,510

getting students and others to make

445

00:20:41,020 --> 00:20:38,180

science documentaries all in 60 seconds

446

00:20:43,780 --> 00:20:41,030

60 second science is interested in

447

00:20:45,310 --> 00:20:43,790

getting more teachers involved in places

448

00:20:49,060 --> 00:20:45,320

like Canada the United States United

449

00:20:50,590 --> 00:20:49,070

Kingdom anywhere really if you're a

450

00:20:52,660 --> 00:20:50,600

teacher and you want to become involved

451
00:20:55,600 --> 00:20:52,670
in helping to spread science on the

452
00:20:57,340 --> 00:20:55,610
internet Google 60-second science have a

453
00:21:00,550 --> 00:20:57,350
look at some of the entries and maybe

454
00:21:06,110 --> 00:21:00,560
get your school board interested in this

455
00:21:10,710 --> 00:21:08,940
welcome to a week in science from our

456
00:21:13,890 --> 00:21:10,720
iOS bringing you the science museum

457
00:21:16,590 --> 00:21:13,900
needs a no this week in science saw a

458
00:21:28,740 --> 00:21:16,600
closer look at paper pulp howling wolves

459
00:21:31,080 --> 00:21:28,750
and what's this noise can the

460
00:21:33,480 --> 00:21:31,090
twinkle-twinkle of little stars really

461
00:21:35,730 --> 00:21:33,490
tell us what they are nature this week

462
00:21:37,470 --> 00:21:35,740
reported that the flicker of stars can

463
00:21:40,290 --> 00:21:37,480

be used to measure gravity at its

464

00:21:43,020 --> 00:21:40,300

surface in turn this information can be

465

00:21:46,140 --> 00:21:43,030

used to determine how big and how old

466

00:21:49,140 --> 00:21:46,150

the star is the flickers have also been

467

00:21:58,670 --> 00:21:49,150

converted to sound so you can hear what

468

00:22:07,290 --> 00:22:05,160

why do wolves howl researchers looked at

469

00:22:09,060 --> 00:22:07,300

the social structure of wolf packs and

470

00:22:11,910 --> 00:22:09,070

measured levels of the stress hormone

471

00:22:14,160 --> 00:22:11,920

cortisol when an individual was removed

472

00:22:16,410 --> 00:22:14,170

from the pack they observed the howling

473

00:22:18,720 --> 00:22:16,420

of the Wolves left behind they found

474

00:22:20,490 --> 00:22:18,730

that wolves howl more if they have a

475

00:22:23,130 --> 00:22:20,500

strong relationship with the removed

476

00:22:25,620 --> 00:22:23,140

pack member but that it did not relate

477

00:22:27,600 --> 00:22:25,630

to their stress levels this indicates

478

00:22:30,180 --> 00:22:27,610

that howling is not a simple stress

479

00:22:32,430 --> 00:22:30,190

response but may be used more to

480

00:22:34,830 --> 00:22:32,440

communicate with the missing pack member

481

00:22:37,230 --> 00:22:34,840

you're listening to a week in science

482

00:22:41,790 --> 00:22:37,240

from our iOS are now for science

483

00:22:44,070 --> 00:22:41,800

headlines in 30 seconds a closer look at

484

00:22:46,650 --> 00:22:44,080

paper pulp reveals why it sticks

485

00:22:49,050 --> 00:22:46,660

together and how to reduce the materials

486

00:22:51,000 --> 00:22:49,060

and energy needed to produce a middle

487

00:22:53,490 --> 00:22:51,010

aged people with narrowed arteries who

488

00:22:56,070 --> 00:22:53,500

have had the flu jab have almost half

489

00:22:58,080 --> 00:22:56,080

the risk of heart attack floods due to

490

00:23:00,090 --> 00:22:58,090

climate change in coastal cities will

491

00:23:03,720 --> 00:23:00,100

cost at least one trillion dollars

492

00:23:06,690 --> 00:23:03,730

annually by 2050 and what you see is

493

00:23:08,520 --> 00:23:06,700

what you get we rely more on visual

494

00:23:12,150 --> 00:23:08,530

information when judging a musical

495

00:23:13,770 --> 00:23:12,160

performance than sound it's been a big

496

00:23:15,330 --> 00:23:13,780

week in science policy with

497

00:23:17,550 --> 00:23:15,340

announcements for investment in

498

00:23:20,910 --> 00:23:17,560

regenerative medicine and climate change

499

00:23:23,940 --> 00:23:20,920

on Tuesday night the 27th of August join

500

00:23:26,670 --> 00:23:23,950

our discussion on science policy held

501
00:23:29,520 --> 00:23:26,680
simultaneously in Adelaide and Canberra

502
00:23:31,760 --> 00:23:29,530
an available live online across the

503
00:23:34,770 --> 00:23:31,770
country check our website for details

504
00:23:42,350 --> 00:23:34,780
that's it for this a week in science

505
00:23:42,360 --> 00:23:46,120
chanson

506
00:23:51,530 --> 00:23:48,560
but gasps yours is an award-winning

507
00:23:54,410 --> 00:23:51,540
weekly science show in French hosted by

508
00:23:56,720 --> 00:23:54,420
a bunch of crazy enthusiasts we are

509
00:23:59,060 --> 00:23:56,730
convinced that the greatest ideas in

510
00:24:01,310 --> 00:23:59,070
science are quite easy to grasp as long

511
00:24:03,860 --> 00:24:01,320
as they're presented with passion using

512
00:24:06,110 --> 00:24:03,870
a vocabulary common to all curious minds

513
00:24:08,810 --> 00:24:06,120

whatever their academic background if

514

00:24:11,810 --> 00:24:08,820

any you don't understand French yet oh

515

00:24:13,700 --> 00:24:11,820

it's never too late all our stories have

516

00:24:15,560 --> 00:24:13,710

a written transcript on the website and

517

00:24:17,630 --> 00:24:15,570

people from all around the world are

518

00:24:20,720 --> 00:24:17,640

using our content to learn Malia's

519

00:24:22,970 --> 00:24:20,730

language our topics range from 0 to

520

00:24:25,490 --> 00:24:22,980

infinity from evolution to artificial

521

00:24:28,160 --> 00:24:25,500

life from electromagnetism to the

522

00:24:31,370 --> 00:24:28,170

science of introverts we just love

523

00:24:34,160 --> 00:24:31,380

mathematics science critical thinking so

524

00:24:35,870 --> 00:24:34,170

do you want to join you can subscribe to

525

00:24:38,540 --> 00:24:35,880

the podcast for free from our website

526

00:24:41,210 --> 00:24:38,550

podcast science starts f-n that's in one

527

00:24:43,940 --> 00:24:41,220

word you also find us on itunes and

528

00:24:45,590 --> 00:24:43,950

soundcloud see you soon hopefully at

529

00:24:49,740 --> 00:24:45,600

louisa korea had the other words or

530

00:24:49,750 --> 00:24:56,950

Oh

531

00:25:08,680 --> 00:25:01,670

here's Maynard spooky action at a

532

00:25:15,470 --> 00:25:10,789

mollica said he has a guy working at

533

00:25:17,149 --> 00:25:15,480

NASA in the the 50 60 70 s you all the

534

00:25:22,460 --> 00:25:17,159

photos I've seen you must have had one

535

00:25:23,899 --> 00:25:22,470

hell of a pocket protector fear pins you

536

00:25:29,299 --> 00:25:23,909

know I'd never had a pocket protector

537

00:25:32,720 --> 00:25:29,309

right I I poured them but I had a lot of

538

00:25:35,810 --> 00:25:32,730

Ruin shirts out that every every guy you

539

00:25:37,909 --> 00:25:35,820

see had a in in the Mission Control seem

540

00:25:39,619 --> 00:25:37,919

to have a huge pocket pit even bigger

541

00:25:42,379 --> 00:25:39,629

than the Revenge of the Nerds movie just

542

00:25:43,820 --> 00:25:42,389

you just keep the did pins leak really

543

00:25:45,549 --> 00:25:43,830

easily then was that the problem or

544

00:25:48,200 --> 00:25:45,559

whether using fountain pen design I

545

00:25:50,659 --> 00:25:48,210

think we were way from fountain pens but

546

00:25:55,879 --> 00:25:50,669

by that time the ballpoint pens were

547

00:25:57,529 --> 00:25:55,889

pretty much in you just run through a

548

00:25:58,820 --> 00:25:57,539

couple of the conspiracies here now you

549

00:26:00,980 --> 00:25:58,830

said your spirit spoke to some people

550

00:26:03,739 --> 00:26:00,990

from the Club of Rome did they look like

551

00:26:08,629 --> 00:26:03,749

people that run the world malo well

552

00:26:12,169 --> 00:26:08,639

actually they were circumstances was I

553

00:26:19,519 --> 00:26:12,179

got a phone call at that time uh this

554

00:26:22,190 --> 00:26:19,529

was in the own 1982 time period I was

555

00:26:25,249 --> 00:26:22,200

the project manager for trying to figure

556

00:26:29,060 --> 00:26:25,259

out how to how the Air Force could

557

00:26:32,299 --> 00:26:29,070

planned missions and fly missions from

558

00:26:34,940 --> 00:26:32,309

colorado springs in something called the

559

00:26:38,350 --> 00:26:34,950

consolidated Space Operations Center and

560

00:26:40,970 --> 00:26:38,360

my job was to take our knowledge and of

561

00:26:42,950 --> 00:26:40,980

what the systems where we have the

562

00:26:46,190 --> 00:26:42,960

Mission Control Center in Houston and

563

00:26:49,460 --> 00:26:46,200

and replicate that if we could or

564

00:26:52,129 --> 00:26:49,470

whatever and so I got a call from

565

00:26:55,039 --> 00:26:52,139

somebody high up in the organization

566

00:26:57,169 --> 00:26:55,049

said there's a few gentlemen from the

567

00:27:00,139 --> 00:26:57,179

Club of Rome that would like a briefing

568

00:27:02,749 --> 00:27:00,149

on how the Air Force is going to do this

569

00:27:04,639 --> 00:27:02,759

so i said i got briefing charts and

570

00:27:07,279 --> 00:27:04,649

everything just tell me where to go and

571

00:27:10,460 --> 00:27:07,289

i'll give him a briefing they were i

572

00:27:14,779 --> 00:27:10,470

believe four members one of them was a

573

00:27:17,990 --> 00:27:14,789

retired Air Force general the other one

574

00:27:20,510 --> 00:27:18,000

was a retired military I can't

575

00:27:22,820 --> 00:27:20,520

member which and the other two gentlemen

576

00:27:26,000 --> 00:27:22,830

were bankers you know I didn't know

577

00:27:28,130 --> 00:27:26,010

really what the Club of Rome was I I

578

00:27:31,970 --> 00:27:28,140

guess in the back of my mind I just

579

00:27:35,020 --> 00:27:31,980

figured well I don't know what I figured

580

00:27:37,280 --> 00:27:35,030

at the time but I was doing my duty and

581

00:27:38,960 --> 00:27:37,290

laid down the charts they asked

582

00:27:41,530 --> 00:27:38,970

questions I think they were rather

583

00:27:45,250 --> 00:27:41,540

pleased gave him a probably about a

584

00:27:48,410 --> 00:27:45,260

one-hour comprehensive briefing they had

585

00:27:50,660 --> 00:27:48,420

questions but i think i was able to

586

00:27:53,180 --> 00:27:50,670

satisfy most of their question those

587

00:27:54,740 --> 00:27:53,190

those those there was no hidden agenda

588

00:27:56,510 --> 00:27:54,750

going on there was the they weren't

589

00:27:58,340 --> 00:27:56,520

trying to put people into space or use

590

00:28:00,680 --> 00:27:58,350

this as some sort of weapon were they I

591

00:28:03,860 --> 00:28:00,690

don't think it was for themselves i

592

00:28:07,040 --> 00:28:03,870

think they were I you know I I never

593

00:28:09,710 --> 00:28:07,050

really understood why they wanted to

594

00:28:11,960 --> 00:28:09,720

know that why they wanted to hear I was

595

00:28:14,660 --> 00:28:11,970

going to be done I suspect that there

596

00:28:17,680 --> 00:28:14,670

was a general in the group an Air Force

597

00:28:20,180 --> 00:28:17,690

general by the way it may have been

598

00:28:22,010 --> 00:28:20,190

conceived by him they were having the

599

00:28:24,440 --> 00:28:22,020

Club of Rome was meeting it out in a

600

00:28:26,720 --> 00:28:24,450

place called The Woodlands outside of

601
00:28:28,520 --> 00:28:26,730
Houston and it was you know maybe an

602
00:28:31,220 --> 00:28:28,530
hour drive from there to the space

603
00:28:32,900 --> 00:28:31,230
center so maybe he just said well I'm

604
00:28:34,490 --> 00:28:32,910
getting bored with whatever's going on I

605
00:28:37,400 --> 00:28:34,500
hear the Air Force is going to do

606
00:28:39,350 --> 00:28:37,410
something with the shuttle um why don't

607
00:28:42,440 --> 00:28:39,360
we go find out maybe the four of them

608
00:28:46,490 --> 00:28:42,450
piled in the car and they set up the

609
00:28:50,270 --> 00:28:46,500
meeting I think it was maybe it a non

610
00:28:53,540 --> 00:28:50,280
sinister I think it was pretty okay kind

611
00:28:55,160 --> 00:28:53,550
of thing and what about the moon landing

612
00:28:57,170 --> 00:28:55,170
hoax you mentioned earlier that there

613
00:28:58,880 --> 00:28:57,180

was intense competition with the Soviets

614

00:29:00,950 --> 00:28:58,890

is there any chance that maybe you know

615

00:29:02,870 --> 00:29:00,960

you guys did all this work but rather

616

00:29:04,940 --> 00:29:02,880

than risk the astronauts they faked it

617

00:29:07,400 --> 00:29:04,950

somehow just to beat the Soviets that

618

00:29:11,840 --> 00:29:07,410

way well let me ask you this do you

619

00:29:13,670 --> 00:29:11,850

think the Soviet Union who had had a

620

00:29:17,180 --> 00:29:13,680

great deal of capability i mean we're

621

00:29:20,060 --> 00:29:17,190

talking about a a country and

622

00:29:23,540 --> 00:29:20,070

organization that had the Manhattan

623

00:29:26,150 --> 00:29:23,550

Project secrets before anybody else did

624

00:29:29,150 --> 00:29:26,160

that's true when it infiltrated the

625

00:29:31,430 --> 00:29:29,160

program and and they they were learning

626
00:29:31,790 --> 00:29:31,440
about the manhattan project as it was

627
00:29:33,770 --> 00:29:31,800
going

628
00:29:35,900 --> 00:29:33,780
that's what to Stalin you about at the

629
00:29:40,700 --> 00:29:35,910
Potsdam Conference before anyone told

630
00:29:44,390 --> 00:29:40,710
him Truman Truman was surprised that he

631
00:29:48,140 --> 00:29:44,400
wasn't surprised oh you know yeah well

632
00:29:52,160 --> 00:29:48,150
whatever whatever yeah whatever so

633
00:29:54,410 --> 00:29:52,170
anyway I you know just that fact itself

634
00:29:57,380 --> 00:29:54,420
but I'll tell you the thing that I

635
00:30:00,830 --> 00:29:57,390
always point out is when you talk about

636
00:30:03,140 --> 00:30:00,840
moon landing conspiracies there is a

637
00:30:06,460 --> 00:30:03,150
sizable portion of people around the

638
00:30:09,050 --> 00:30:06,470

world that believe it was a hoax or

639

00:30:11,330 --> 00:30:09,060

either if they don't believe it they're

640

00:30:14,300 --> 00:30:11,340

very suspicious that we landed there in

641

00:30:16,610 --> 00:30:14,310

the United States the polls I've seen is

642

00:30:20,170 --> 00:30:16,620

that summer around nine percent of the

643

00:30:25,130 --> 00:30:20,180

population thinks that it's a hoax

644

00:30:27,200 --> 00:30:25,140

there's another 10 / maybe fifteen

645

00:30:29,330 --> 00:30:27,210

percent or so that are very skeptical

646

00:30:31,130 --> 00:30:29,340

about you know they can't say that it's

647

00:30:33,800 --> 00:30:31,140

a hoax but they don't believe we may

648

00:30:37,340 --> 00:30:33,810

have really done it but there and and by

649

00:30:42,350 --> 00:30:37,350

the way one of the astronaut trainees a

650

00:30:44,810 --> 00:30:42,360

guy named Brian O'Leary was in the

651
00:30:48,170 --> 00:30:44,820
fourth group of astronauts he he later

652
00:30:49,940 --> 00:30:48,180
left the program and he he contended

653
00:30:54,020 --> 00:30:49,950
that you know he was pretty sure that we

654
00:30:56,450 --> 00:30:54,030
faked it and also a former President

655
00:30:59,510 --> 00:30:56,460
Bill Clinton in his memoirs said when he

656
00:31:02,270 --> 00:30:59,520
was a young man he bought the story that

657
00:31:05,210 --> 00:31:02,280
we flew to the moon and landed there but

658
00:31:08,870 --> 00:31:05,220
after he became pretty as a wise wiser

659
00:31:12,350 --> 00:31:08,880
older man as he became president and saw

660
00:31:14,210 --> 00:31:12,360
how the government would work he was not

661
00:31:16,460 --> 00:31:14,220
sure at all that we landed that it was

662
00:31:19,220 --> 00:31:16,470
maybe hopes so do you think this is

663
00:31:20,720 --> 00:31:19,230

people looking back at the technology

664

00:31:22,400 --> 00:31:20,730

and saying no that couldn't have worked

665

00:31:25,940 --> 00:31:22,410

or do you think its people having their

666

00:31:30,830 --> 00:31:25,950

genuine mistrust of government I think a

667

00:31:32,750 --> 00:31:30,840

lot that is it and also one of the

668

00:31:35,750 --> 00:31:32,760

things you mentioned is that it's such a

669

00:31:38,780 --> 00:31:35,760

hard thing to do it might be have been

670

00:31:40,730 --> 00:31:38,790

easier to fake it well my contention is

671

00:31:42,350 --> 00:31:40,740

going back to the words of President

672

00:31:44,600 --> 00:31:42,360

Kennedy says we're going to the moon

673

00:31:45,470 --> 00:31:44,610

that because it's easy but because it's

674

00:31:49,100 --> 00:31:45,480

hard

675

00:31:53,120 --> 00:31:49,110

and I think that's um that's kind of the

676
00:31:56,780 --> 00:31:53,130
fallacy there I I i have my own personal

677
00:31:59,990 --> 00:31:56,790
thought about the how the moon landing

678
00:32:03,200 --> 00:32:00,000
hoax got started you want to hear my

679
00:32:06,440 --> 00:32:03,210
yeah yeah sure but also to add to it is

680
00:32:08,750 --> 00:32:06,450
the fact that we've never been back well

681
00:32:11,450 --> 00:32:08,760
that's you know we're talking about

682
00:32:13,190 --> 00:32:11,460
budgets and money availability that's

683
00:32:15,770 --> 00:32:13,200
one of the big reasons why we haven't

684
00:32:18,500 --> 00:32:15,780
been back well what your personal theory

685
00:32:20,419 --> 00:32:18,510
on how the hoax got going gay ok so here

686
00:32:24,289 --> 00:32:20,429
I am I'm in Mission Control Center I

687
00:32:28,760 --> 00:32:24,299
watched the landing uh I hear the voice

688
00:32:32,000 --> 00:32:28,770

loops and everything and uh during the

689

00:32:34,549 --> 00:32:32,010

landing I was responding I was might my

690

00:32:37,000 --> 00:32:34,559

job was to solve a problem that the

691

00:32:39,860 --> 00:32:37,010

lunar module was overweight and

692

00:32:43,010 --> 00:32:39,870

underperforming and I did analysis

693

00:32:46,909 --> 00:32:43,020

doesn't know that not correct we have

694

00:32:48,950 --> 00:32:46,919

plenty of performance so we I was

695

00:32:51,860 --> 00:32:48,960

particularly interested in the descent

696

00:32:57,169 --> 00:32:51,870

of the lunar stage on to the lunar

697

00:33:00,770 --> 00:32:57,179

module on civil lunar surface now but um

698

00:33:03,770 --> 00:33:00,780

buzz and Neil were were in the module

699

00:33:06,230 --> 00:33:03,780

and Neil Armstrong was the pilot he had

700

00:33:08,750 --> 00:33:06,240

the controls and Buzz was basically

701
00:33:11,500 --> 00:33:08,760
calling off numbers and altitude ins

702
00:33:15,230 --> 00:33:11,510
beaten so forth when he got to the

703
00:33:18,020 --> 00:33:15,240
prescribed landing site he saw boulders

704
00:33:20,720 --> 00:33:18,030
there that were pretty large and he

705
00:33:23,180 --> 00:33:20,730
described him in real time as saying hey

706
00:33:24,860 --> 00:33:23,190
there's boulders as big as well swaggins

707
00:33:27,919 --> 00:33:24,870
I'm going to have to lie on further down

708
00:33:30,980 --> 00:33:27,929
rage which he did but it takes more fuel

709
00:33:33,440 --> 00:33:30,990
to land going out there and the low

710
00:33:36,080 --> 00:33:33,450
level sensor came on and they gave him a

711
00:33:40,580 --> 00:33:36,090
call you got 60 seconds of fuel

712
00:33:43,010 --> 00:33:40,590
remaining well to me as an observer it

713
00:33:48,110 --> 00:33:43,020

seemed like that came on too early by

714

00:33:52,159 --> 00:33:48,120

maybe 30 seconds so after it landed and

715

00:33:54,440 --> 00:33:52,169

he landed successfully uh I went back to

716

00:33:57,350 --> 00:33:54,450

the office got my team together we said

717

00:33:59,420 --> 00:33:57,360

you know I you know I said I got this

718

00:34:02,810 --> 00:33:59,430

feeling it just came on too early

719

00:34:04,400 --> 00:34:02,820

well we we kind of kicked it around and

720

00:34:06,230 --> 00:34:04,410

talked to some of the experts and

721

00:34:09,500 --> 00:34:06,240

everything we kind of felt like Mel was

722

00:34:11,210 --> 00:34:09,510

maybe a dispersion of some type but lo

723

00:34:14,920 --> 00:34:11,220

and behold the same thing happened on

724

00:34:19,040 --> 00:34:14,930

Apollo 12 and the culprit was not

725

00:34:23,420 --> 00:34:19,050

anything that was obvious until tests

726
00:34:26,440 --> 00:34:23,430
were run on the tanks in a simulation of

727
00:34:30,860 --> 00:34:26,450
zero gravity and they realized that that

728
00:34:33,440 --> 00:34:30,870
baffles in the tank didn't keep the fuel

729
00:34:37,060 --> 00:34:33,450
from sloshing around it was accentuated

730
00:34:40,220 --> 00:34:37,070
by the one-sixth gravity and

731
00:34:42,920 --> 00:34:40,230
consequently the the sloshing of the

732
00:34:44,780 --> 00:34:42,930
tanks uncovered the low level sensor I'm

733
00:34:48,620 --> 00:34:44,790
sure you've seen people have experienced

734
00:34:50,720 --> 00:34:48,630
this in their cars when the buzzer goes

735
00:34:52,220 --> 00:34:50,730
off or whatever the warning you're out

736
00:34:55,940 --> 00:34:52,230
of your getting close to getting out of

737
00:35:00,620 --> 00:34:55,950
gas so my thought is if a conspiracy

738
00:35:02,870 --> 00:35:00,630

happened and it was all simulated all

739

00:35:05,600 --> 00:35:02,880

the data that we were getting back since

740

00:35:08,900 --> 00:35:05,610

we were an in on the conspiracy they

741

00:35:11,900 --> 00:35:08,910

stimulated something that really took us

742

00:35:14,480 --> 00:35:11,910

several missions to figure out so they

743

00:35:18,020 --> 00:35:14,490

not only fooled us they also employed

744

00:35:22,220 --> 00:35:18,030

the world's best psychics to say I first

745

00:35:24,110 --> 00:35:22,230

be fuel slashing that these guys are not

746

00:35:27,590 --> 00:35:24,120

aware of that's going to make the low

747

00:35:30,620 --> 00:35:27,600

level light come on early so this also

748

00:35:32,720 --> 00:35:30,630

means that the famous story of Armstrong

749

00:35:34,970 --> 00:35:32,730

almost running out of fuel is incorrect

750

00:35:38,450 --> 00:35:34,980

he had 30 seconds more than they thought

751
00:35:41,120 --> 00:35:38,460
he had exactly exactly but it was

752
00:35:43,250 --> 00:35:41,130
something that we had to correct it did

753
00:35:46,160 --> 00:35:43,260
happen on Apollo 11 and 12 the other

754
00:35:51,290 --> 00:35:46,170
thing to go along with the hoax theory

755
00:35:53,050 --> 00:35:51,300
is the next day back in the office a

756
00:35:55,580 --> 00:35:53,060
couple of the guys that worked for me

757
00:35:58,370 --> 00:35:55,590
went over to the press center now

758
00:36:02,480 --> 00:35:58,380
imagine this we got this big auditorium

759
00:36:06,700 --> 00:36:02,490
it is crammed with reporters from the

760
00:36:09,930 --> 00:36:06,710
television radio print media we have a

761
00:36:14,250 --> 00:36:09,940
famous luminaries in the

762
00:36:18,059 --> 00:36:14,260
in the journalism world Norman Mailer

763
00:36:19,680 --> 00:36:18,069

the famous author he was there so they

764

00:36:23,069 --> 00:36:19,690

go over there and they come back to the

765

00:36:25,710 --> 00:36:23,079

office and they said your people think

766

00:36:28,559 --> 00:36:25,720

that this was all done in Hollywood in

767

00:36:32,370 --> 00:36:28,569

that this crappy video that we saw last

768

00:36:36,240 --> 00:36:32,380

night I was done in Halloween Senate

769

00:36:37,950 --> 00:36:36,250

that it's all been faked and I said what

770

00:36:43,980 --> 00:36:37,960

do you mean by my people and they said

771

00:36:48,059 --> 00:36:43,990

the Italian press for my people but

772

00:36:52,530 --> 00:36:48,069

anyway and then when I realized it you

773

00:36:56,700 --> 00:36:52,540

know that crappy video slow scan black

774

00:36:59,520 --> 00:36:56,710

and white lower low resolution I mean

775

00:37:01,770 --> 00:36:59,530

when you see it you can't even make out

776

00:37:05,990 --> 00:37:01,780

what the hell it is and this was real

777

00:37:08,819 --> 00:37:06,000

time video and by the way Maynard

778

00:37:11,790 --> 00:37:08,829

interesting factor we almost didn't take

779

00:37:14,550 --> 00:37:11,800

that real-time video camera on the lunar

780

00:37:17,400 --> 00:37:14,560

module with us well because it was the

781

00:37:19,200 --> 00:37:17,410

whites concerns there was a weight

782

00:37:22,260 --> 00:37:19,210

concern of course I solve the weight

783

00:37:24,930 --> 00:37:22,270

concern but even with the weight concern

784

00:37:30,270 --> 00:37:24,940

when you put a piece of equipment like a

785

00:37:32,010 --> 00:37:30,280

video camera on on the spacecraft then

786

00:37:34,410 --> 00:37:32,020

you've got to go through all kinds of

787

00:37:36,270 --> 00:37:34,420

training hours and right procedures on

788

00:37:37,680 --> 00:37:36,280

how do you hook the thing up I mean you

789

00:37:39,480 --> 00:37:37,690

just can't have a piece of equipment

790

00:37:43,050 --> 00:37:39,490

that they've never seen before never

791

00:37:45,329 --> 00:37:43,060

pointed and so forth and the people that

792

00:37:48,150 --> 00:37:45,339

want to do not fly it that it's just a

793

00:37:50,190 --> 00:37:48,160

big hassle it doesn't enhance them the

794

00:37:53,339 --> 00:37:50,200

mission it doesn't there's no mission

795

00:37:58,260 --> 00:37:53,349

objectives to say needed broadcast

796

00:38:01,470 --> 00:37:58,270

real-time back to earth and yet it was

797

00:38:04,200 --> 00:38:01,480

recommended that it be left off my

798

00:38:07,050 --> 00:38:04,210

boss's boss Chris Kraft who is the

799

00:38:10,710 --> 00:38:07,060

flight director in charge of flight

800

00:38:13,829 --> 00:38:10,720

operations uh he said I can't believe

801
00:38:17,720 --> 00:38:13,839
what I'm hearing why would we leave it

802
00:38:21,870 --> 00:38:17,730
off because it's like having a camera a

803
00:38:23,460 --> 00:38:21,880
TV camera or movie film camera on the

804
00:38:27,290 --> 00:38:23,470
beach when

805
00:38:29,820 --> 00:38:27,300
a step foot in the world new world and

806
00:38:31,589 --> 00:38:29,830
the still photos from the hasselblad a

807
00:38:33,990 --> 00:38:31,599
fascinating it is weird that some of the

808
00:38:35,730 --> 00:38:34,000
cross-hatching appears above the images

809
00:38:38,670 --> 00:38:35,740
or behind the images sometimes that I

810
00:38:42,210 --> 00:38:38,680
think that's an odd one well that is a

811
00:38:45,270 --> 00:38:42,220
that is very explainable in photography

812
00:38:51,570 --> 00:38:45,280
and it has to do a dynamic range of the

813
00:38:54,599 --> 00:38:51,580

photos but uh and and I've seen this

814

00:38:59,310 --> 00:38:54,609

proven where you take a very bright

815

00:39:01,230 --> 00:38:59,320

object and it almost looks like the the

816

00:39:04,620 --> 00:39:01,240

cross-hatching I mean it's been

817

00:39:09,660 --> 00:39:04,630

simulated in its and of course those

818

00:39:12,599 --> 00:39:09,670

those 70 millimeter format hasselblad

819

00:39:15,650 --> 00:39:12,609

our cameras were you know top dollar

820

00:39:17,910 --> 00:39:15,660

top-of-the-line beautiful camera sack

821

00:39:21,450 --> 00:39:17,920

beautiful cameras and they brought back

822

00:39:24,089 --> 00:39:21,460

beautiful images but uh you know there's

823

00:39:27,480 --> 00:39:24,099

there's a whole mystique build up about

824

00:39:31,760 --> 00:39:27,490

what the glial illiteracy is on the rock

825

00:39:35,640 --> 00:39:31,770

and it's at the hair if somebody's

826

00:39:38,370 --> 00:39:35,650

eyebrow hair that got into the film

827

00:39:40,020 --> 00:39:38,380

processing malo how do you feel about

828

00:39:41,940 --> 00:39:40,030

this is someone who worked on the space

829

00:39:43,380 --> 00:39:41,950

program where will you mention that

830

00:39:45,120 --> 00:39:43,390

never once in a while someone comes up

831

00:39:47,670 --> 00:39:45,130

to you and and pushes the hoax

832

00:39:51,980 --> 00:39:47,680

conspiracy theory at the hoax theory to

833

00:39:55,470 --> 00:39:51,990

you how do you feel well um you know the

834

00:39:57,540 --> 00:39:55,480

invasion of Normandy was I'm sure for

835

00:40:02,609 --> 00:39:57,550

the guys that were involved in that was

836

00:40:06,870 --> 00:40:02,619

a big emotional thing in their life that

837

00:40:09,420 --> 00:40:06,880

probably uh they're like really define

838

00:40:12,870 --> 00:40:09,430

their life now if I were to go around

839

00:40:16,320 --> 00:40:12,880

and say you know it turned out that the

840

00:40:17,940 --> 00:40:16,330

Brits and the Americans made a deal with

841

00:40:19,530 --> 00:40:17,950

the Germans that we were just going to

842

00:40:22,380 --> 00:40:19,540

pretend and we're going to set up a

843

00:40:24,000 --> 00:40:22,390

fruit film crew and nobody was going to

844

00:40:27,599 --> 00:40:24,010

get hurt and we're just going to trade

845

00:40:29,940 --> 00:40:27,609

them more gold blocks or you know

846

00:40:34,859 --> 00:40:29,950

whatever and then you came out with

847

00:40:37,290 --> 00:40:34,869

Normandy invasion a hoax I mean people

848

00:40:40,290 --> 00:40:37,300

would be coming at you with

849

00:40:44,130 --> 00:40:40,300

with the hatchet if you were to propose

850

00:40:46,320 --> 00:40:44,140

that and that's the feeling that do I

851
00:40:49,530 --> 00:40:46,330
mean many people involved at NASA would

852
00:40:52,350 --> 00:40:49,540
have had yeah yeah in it it's you know

853
00:40:55,740 --> 00:40:52,360
you you know really smart people said

854
00:40:59,220 --> 00:40:55,750
boy I saw this program on TV that dead

855
00:41:03,000 --> 00:40:59,230
moon landing was all was all fake they

856
00:41:05,550 --> 00:41:03,010
got proof a photography proof and

857
00:41:07,650 --> 00:41:05,560
everything and but at Monica City this

858
00:41:09,150 --> 00:41:07,660
also brings us into your your journey

859
00:41:10,680 --> 00:41:09,160
through skepticism and critical thinking

860
00:41:13,430 --> 00:41:10,690
and how you're trying to spread it

861
00:41:15,840 --> 00:41:13,440
around your area what is your view on on

862
00:41:17,310 --> 00:41:15,850
getting people to look look to the

863
00:41:20,390 --> 00:41:17,320

evidence basically when something

864

00:41:24,710 --> 00:41:20,400

happens well I had the great opportunity

865

00:41:27,630 --> 00:41:24,720

last year to give the commencement they

866

00:41:33,960 --> 00:41:27,640

addressed to the graduating high school

867

00:41:37,290 --> 00:41:33,970

in my community and I I I gave them I

868

00:41:40,140 --> 00:41:37,300

put a flavor of the space program in and

869

00:41:42,840 --> 00:41:40,150

I the whole thing was about critical

870

00:41:47,700 --> 00:41:42,850

thinking and I give an example of how we

871

00:41:50,480 --> 00:41:47,710

flew to the moon on Apollo 8 and we were

872

00:41:52,890 --> 00:41:50,490

getting pushed off course and we used

873

00:41:55,140 --> 00:41:52,900

detective work work and look for

874

00:41:57,270 --> 00:41:55,150

evidence and we realize that when we

875

00:42:02,040 --> 00:41:57,280

flush the toilet it threw us off course

876
00:42:04,560 --> 00:42:02,050
because it gave us a slight push and I

877
00:42:07,260 --> 00:42:04,570
ended that by saying you know it took

878
00:42:09,990 --> 00:42:07,270
critical thinking and looking for

879
00:42:12,870 --> 00:42:10,000
evidence to find that and I and I

880
00:42:15,990 --> 00:42:12,880
contrasted it by saying what we didn't

881
00:42:17,880 --> 00:42:16,000
do is we didn't call in a tarot card

882
00:42:20,010 --> 00:42:17,890
reader to figure out where we were going

883
00:42:23,460 --> 00:42:20,020
to end up at the end of this mission or

884
00:42:25,800 --> 00:42:23,470
we didn't call the psychic hotline or we

885
00:42:31,680 --> 00:42:25,810
didn't even do something as simple as

886
00:42:33,870 --> 00:42:31,690
looking up the the astrology charts for

887
00:42:36,570 --> 00:42:33,880
the three crew members that were on and

888
00:42:41,100 --> 00:42:36,580

and try to figure out what was going on

889

00:42:44,220 --> 00:42:41,110

because critical thinking is is the

890

00:42:48,840 --> 00:42:44,230

opposite of magical thing and what I

891

00:42:50,730 --> 00:42:48,850

described was magical and it's give that

892

00:42:55,350 --> 00:42:50,740

contrast and I went through other

893

00:42:57,750 --> 00:42:55,360

things about medicines and how the

894

00:43:01,070 --> 00:42:57,760

father of our country died and so forth

895

00:43:03,930 --> 00:43:01,080

and so on to give examples of how

896

00:43:06,859 --> 00:43:03,940

critical thinking can affect what's

897

00:43:10,500 --> 00:43:06,869

going on and like myself you also enjoy

898

00:43:12,440 --> 00:43:10,510

non skeptical podcasts as well and you

899

00:43:17,160 --> 00:43:12,450

like a whole range of things don't you I

900

00:43:20,850 --> 00:43:17,170

do i I don't I don't spend my whole day

901
00:43:23,010 --> 00:43:20,860
listening to podcast but I i live on 75

902
00:43:24,990 --> 00:43:23,020
acres of land so i got a lot of work to

903
00:43:30,420 --> 00:43:25,000
do you could love you you must have a

904
00:43:33,270 --> 00:43:30,430
hell of a ride on mower well I do have a

905
00:43:34,980 --> 00:43:33,280
variety I have a what's called a garden

906
00:43:36,960 --> 00:43:34,990
tractor which is like a big blowing

907
00:43:38,730 --> 00:43:36,970
machine it's got a cup holder you've got

908
00:43:42,300 --> 00:43:38,740
a cup holder on your garden tractor I

909
00:43:44,460 --> 00:43:42,310
know it's a too bumpy ride I mean I'm

910
00:43:46,830 --> 00:43:44,470
running over what kind of wild while

911
00:43:49,650 --> 00:43:46,840
field so forth and I just keep it trim

912
00:43:51,240 --> 00:43:49,660
done around the house look and is the

913
00:43:53,280 --> 00:43:51,250

one image like a lot of people that have

914

00:43:54,930 --> 00:43:53,290

been involved in dramatic programs like

915

00:43:56,490 --> 00:43:54,940

you've been they've got the one photo

916

00:43:58,830 --> 00:43:56,500

that is somewhere in the house that

917

00:44:00,570 --> 00:43:58,840

reminds them of their entire time what

918

00:44:03,720 --> 00:44:00,580

is your photo that reminds you of your

919

00:44:07,560 --> 00:44:03,730

entire time in the space program mercury

920

00:44:12,090 --> 00:44:07,570

flight 10 ma 10 lifting off I've got a

921

00:44:15,050 --> 00:44:12,100

black and white photo of that and I also

922

00:44:20,220 --> 00:44:15,060

have I guess my prized possession is

923

00:44:23,640 --> 00:44:20,230

during the kind of the last part of the

924

00:44:26,670 --> 00:44:23,650

space program after we had flown Mercury

925

00:44:31,020 --> 00:44:26,680

Gemini Apollo and we're getting into

926

00:44:35,640 --> 00:44:31,030

shuttle I was given an award certificate

927

00:44:38,849 --> 00:44:35,650

in on it was a flag a small fabric flag

928

00:44:43,550 --> 00:44:38,859

that was flown to the moon on apollo 17

929

00:44:45,960 --> 00:44:43,560

in that hanging in my in my living room

930

00:44:47,609 --> 00:44:45,970

that sounds like quite an honor you uh

931

00:44:49,200 --> 00:44:47,619

well I you wouldn't want the lucky

932

00:44:54,570 --> 00:44:49,210

people to get any bit of moon rock where

933

00:44:58,230 --> 00:44:54,580

you know and that is kind of a bone of

934

00:45:00,720 --> 00:44:58,240

contention about now here we go let me

935

00:45:04,500 --> 00:45:00,730

good luck someone stole your bit of moon

936

00:45:08,670 --> 00:45:04,510

rock someone no no no I I was

937

00:45:10,710 --> 00:45:08,680

I was first to go into the facility I

938

00:45:14,550 --> 00:45:10,720

knew a friend that worked over there and

939

00:45:18,780 --> 00:45:14,560

he snuck me into into the lunar

940

00:45:22,260 --> 00:45:18,790

receiving laboratory and I got a glance

941

00:45:23,940 --> 00:45:22,270

at the that but he he was very nervous

942

00:45:27,060 --> 00:45:23,950

about it I wasn't supposed to be in

943

00:45:29,610 --> 00:45:27,070

there so he ran me right out but in the

944

00:45:32,340 --> 00:45:29,620

lobby of one of her buildings there at

945

00:45:34,410 --> 00:45:32,350

Johnson Space Center in Houston is a

946

00:45:38,730 --> 00:45:34,420

pretty good-sized moon rock I'm display

947

00:45:42,420 --> 00:45:38,740

behind a plexiglass cube and its really

948

00:45:46,980 --> 00:45:42,430

edit just fascinating me and you know

949

00:45:49,290 --> 00:45:46,990

feel that I contributed to that yeah I I

950

00:45:51,690 --> 00:45:49,300

can't understand that that feeling but

951
00:45:53,730 --> 00:45:51,700
Marlo Cassetti I I could just imagine

952
00:45:58,590 --> 00:45:53,740
you walk past that rock and you go yet I

953
00:46:00,090 --> 00:45:58,600
help get that bit here yeah and when you

954
00:46:02,520 --> 00:46:00,100
look at the advances that have been made

955
00:46:04,950 --> 00:46:02,530
and what you could do now with the

956
00:46:06,870 --> 00:46:04,960
technology now do you ever imagine what

957
00:46:10,590 --> 00:46:06,880
could have been done then if we had the

958
00:46:14,820 --> 00:46:10,600
computing power we have now oh it would

959
00:46:16,590 --> 00:46:14,830
be I mean we had a division of 400

960
00:46:20,640 --> 00:46:16,600
people that kind of probably could be

961
00:46:24,090 --> 00:46:20,650
done by 40 people with the beauty power

962
00:46:27,780 --> 00:46:24,100
uh you know it's very difficult and i

963
00:46:32,220 --> 00:46:27,790

gave a talk at a engineering scholarship

964

00:46:34,050 --> 00:46:32,230

foundation banquet and there were a lot

965

00:46:39,660 --> 00:46:34,060

of young people there and i tried to

966

00:46:43,050 --> 00:46:39,670

give him a flavor of how crude computing

967

00:46:46,440 --> 00:46:43,060

was in that era of the Apollo program uh

968

00:46:48,390 --> 00:46:46,450

when you have a big computer in the only

969

00:46:52,890 --> 00:46:48,400

way you can talk to that computer as you

970

00:46:55,980 --> 00:46:52,900

is you take a box of IBM cards with

971

00:46:59,610 --> 00:46:55,990

punched information on it you submit it

972

00:47:02,430 --> 00:46:59,620

and you pick a pick up the print out the

973

00:47:05,610 --> 00:47:02,440

next morning because it's been waiting

974

00:47:08,850 --> 00:47:05,620

with a hundred other job you don't get a

975

00:47:11,880 --> 00:47:08,860

lot done you do a lot of waiting and a

976

00:47:14,430 --> 00:47:11,890

lot of busy work but you don't have

977

00:47:18,599 --> 00:47:14,440

instant access that you have on let's

978

00:47:23,039 --> 00:47:18,609

say a pc nowadays advanced calculations

979

00:47:27,329 --> 00:47:23,049

I know took 20 minutes of time on a big

980

00:47:32,910 --> 00:47:27,339

machine uh it's a fraction of a second

981

00:47:34,589 --> 00:47:32,920

on a desktop computer mallika City thank

982

00:47:37,229 --> 00:47:34,599

you for telling us about your time with

983

00:47:39,059 --> 00:47:37,239

Mercury Gemini and the Apollo program is

984

00:47:40,799 --> 00:47:39,069

you have a website or somewhere people

985

00:47:44,309 --> 00:47:40,809

can contact or find out more about what

986

00:47:46,109 --> 00:47:44,319

you've got up to no actually I don't you

987

00:47:47,970 --> 00:47:46,119

were you really should even if just a

988

00:47:49,440 --> 00:47:47,980

couple of your photos and a bit of a

989

00:47:52,589 --> 00:47:49,450

blog or something people have loved to

990

00:47:55,499 --> 00:47:52,599

read that well maybe I'll do that now

991

00:47:57,410 --> 00:47:55,509

let you know if I ever get to it when

992

00:48:01,200 --> 00:47:57,420

you've got 70 acres to mow for a start

993

00:48:04,049 --> 00:48:01,210

yeah well actually I've been involved

994

00:48:07,109 --> 00:48:04,059

in radio controlled model airplanes and

995

00:48:08,880 --> 00:48:07,119

our club has a site but I'm you're not

996

00:48:11,370 --> 00:48:08,890

going to find out much about me on that

997

00:48:12,749 --> 00:48:11,380

site well lookie might as well give us

998

00:48:14,900 --> 00:48:12,759

that so we can see what what other

999

00:48:22,680 --> 00:48:14,910

aeronautics you've been doing lately

1000

00:48:27,450 --> 00:48:22,690

okay you could look on FB our DC dot

1001
00:48:36,029 --> 00:48:27,460
blog spot.com that website again for the

1002
00:48:37,589 --> 00:48:36,039
listeners FB RC v dot blogspot com look

1003
00:48:39,470 --> 00:48:37,599
ma no it's been a great pleasure talking

1004
00:48:41,910 --> 00:48:39,480
to you today about critical thinking

1005
00:48:43,529 --> 00:48:41,920
skepticism and about your experience in

1006
00:48:45,089 --> 00:48:43,539
aeronautics and NASA and I'd love to

1007
00:48:46,979 --> 00:48:45,099
chat to again because we didn't even get

1008
00:48:49,400 --> 00:48:46,989
to the fact that you helped design the

1009
00:48:53,819 --> 00:48:49,410
tail for the hoorka Harrier Jump Jet

1010
00:48:57,059 --> 00:48:53,829
well it was um I I was redesigned the

1011
00:48:59,099 --> 00:48:57,069
horizontal tail because it had a ability

1012
00:49:00,630 --> 00:48:59,109
problem see and that's the kind of

1013
00:49:03,210 --> 00:49:00,640

people that listen to our show people

1014

00:49:04,829 --> 00:49:03,220

mom are low we'll have a chat about that

1015

00:49:06,420 --> 00:49:04,839

another day thank you very much i will

1016

00:49:09,239 --> 00:49:06,430

be in contact it's been a pleasure to

1017

00:49:22,530 --> 00:49:09,249

speak to you sir if the pleasure is all

1018

00:49:27,790 --> 00:49:24,880

hello this is brian dunning from the

1019

00:49:30,250 --> 00:49:27,800

sceptile cast announcing a new book

1020

00:49:33,190 --> 00:49:30,260

capturing 50 of the very best stories

1021

00:49:34,599 --> 00:49:33,200

thus kept I'd podcast as explored are

1022

00:49:36,370 --> 00:49:34,609

you better able to make good decisions

1023

00:49:37,870 --> 00:49:36,380

about your life when you know the

1024

00:49:40,480 --> 00:49:37,880

science underlying the way the world

1025

00:49:43,480 --> 00:49:40,490

really works are you excited to learn

1026
00:49:45,549 --> 00:49:43,490
new facts new history and gain improved

1027
00:49:49,299 --> 00:49:45,559
insight and context for what we

1028
00:49:52,089 --> 00:49:49,309
experience this book is for you skip

1029
00:49:54,400 --> 00:49:52,099
tied five massacres monsters and

1030
00:49:56,559 --> 00:49:54,410
miracles is a collection of fifty of the

1031
00:49:59,260 --> 00:49:56,569
best episodes of the sceptile podcast

1032
00:50:01,329 --> 00:49:59,270
adapted for print he will be fully

1033
00:50:03,549 --> 00:50:01,339
indexed and referenced but most of all

1034
00:50:05,559 --> 00:50:03,559
each of its 50 chapters will be a

1035
00:50:07,960 --> 00:50:05,569
fascinating peek behind the urban

1036
00:50:10,420 --> 00:50:07,970
legends we've all heard to see what's

1037
00:50:12,579 --> 00:50:10,430
truly going on more than a hundred and

1038
00:50:15,220 --> 00:50:12,589

eighty thousand people enjoy the podcast

1039

00:50:17,140 --> 00:50:15,230

each week but many more missing out in

1040

00:50:19,780 --> 00:50:17,150

part because they read books instead of

1041

00:50:22,420 --> 00:50:19,790

listening to the internet this project

1042

00:50:24,670 --> 00:50:22,430

is being proud funded on Kickstarter the

1043

00:50:27,250 --> 00:50:24,680

web's leading crowdfunding resource a

1044

00:50:29,140 --> 00:50:27,260

pledge of \$25 will get you an

1045

00:50:30,940 --> 00:50:29,150

autographed copy of the book and a

1046

00:50:33,120 --> 00:50:30,950

pledge of only ten dollars will get you

1047

00:50:36,460 --> 00:50:33,130

ebooks to read on your portable device

1048

00:50:38,200 --> 00:50:36,470

also one lucky supporter will have the

1049

00:50:40,809 --> 00:50:38,210

chance to write the foreword for the

1050

00:50:43,390 --> 00:50:40,819

book will this be your opportunity to

1051

00:50:45,760 --> 00:50:43,400

get into worldwide print come to

1052

00:50:48,609 --> 00:50:45,770

sceptile calm and click on the project

1053

00:50:51,130 --> 00:50:48,619

front and center on the web page you can

1054

00:50:55,120 --> 00:50:51,140

also find it at kickstarter com just

1055

00:50:57,970 --> 00:50:55,130

search for sceptile massacres monsters

1056

00:51:00,849 --> 00:50:57,980

and miracles coming soon to all who make

1057

00:51:06,930 --> 00:51:00,859

a modest pledge I'm Brian Dunning from

1058

00:51:12,310 --> 00:51:09,520

are you aware that in the last 20 years

1059

00:51:14,320 --> 00:51:12,320

there's not had a section on until

1060

00:51:15,970 --> 00:51:14,330

design or creationism that's correct

1061

00:51:17,170 --> 00:51:15,980

what you are discussing now is whether

1062

00:51:18,940 --> 00:51:17,180

you will teach the denigration of

1063

00:51:20,859 --> 00:51:18,950

evolution which is a longtime

1064

00:51:22,660 --> 00:51:20,869

creationist strategy to promote

1065

00:51:24,010 --> 00:51:22,670

creationism through the back door have

1066

00:51:26,620 --> 00:51:24,020

there ever been any evidence of

1067

00:51:28,570 --> 00:51:26,630

evolutionary fraud of course should we

1068

00:51:30,790 --> 00:51:28,580

be allowed to teach that as his ambles

1069

00:51:33,010 --> 00:51:30,800

of bad science certainly just like you

1070

00:51:41,470 --> 00:51:33,020

can teach examples of political

1071

00:51:43,720 --> 00:51:41,480

chicanery thank you in the battle for

1072

00:51:46,690 --> 00:51:43,730

rationality in America especially in

1073

00:51:48,640 --> 00:51:46,700

American education my own subject of

1074

00:51:51,700 --> 00:51:48,650

evolutionary biology is in the front

1075

00:51:53,560 --> 00:51:51,710

line trench and dr. Scott is the

1076

00:51:55,900 --> 00:51:53,570

commanding officer the master strategist

1077

00:51:58,210 --> 00:51:55,910

on our side the general in charge of

1078

00:52:00,490 --> 00:51:58,220

intelligence and strategic planning as

1079

00:52:03,820 --> 00:52:00,500

well as the field officer in charge of

1080

00:52:06,460 --> 00:52:03,830

tactics and battle order yet she does it

1081

00:52:09,310 --> 00:52:06,470

all with the most unmilitary grace and

1082

00:52:10,870 --> 00:52:09,320

charm it's impossible to meet Jeanne

1083

00:52:13,570 --> 00:52:10,880

without loving her whether you agree

1084

00:52:15,310 --> 00:52:13,580

with her or not intelligent design makes

1085

00:52:16,540 --> 00:52:15,320

the claim that there are things out

1086

00:52:19,060 --> 00:52:16,550

there in nature that are just

1087

00:52:21,540 --> 00:52:19,070

categorically unexplainable by natural

1088

00:52:24,130 --> 00:52:21,550

cause therefore they were created

1089

00:52:25,780 --> 00:52:24,140

designed by an intelligent agent and

1090

00:52:28,000 --> 00:52:25,790

nobody's fool the intelligent agent de

1091

00:52:30,190 --> 00:52:28,010

Scott now how can you call that a

1092

00:52:32,079 --> 00:52:30,200

science when your basic organizing

1093

00:52:34,300 --> 00:52:32,089

principle is we can't explain this

1094

00:52:36,140 --> 00:52:34,310

through natural cause what science does

1095

00:52:38,660 --> 00:52:36,150

is explain things through natural

1096

00:52:40,370 --> 00:52:38,670

and the whole idea of intelligent design

1097

00:52:42,380 --> 00:52:40,380

just completely flies in the face of

1098

00:52:44,599 --> 00:52:42,390

that I heard that a Scott was being

1099

00:52:46,339 --> 00:52:44,609

inducted into the IRG I was very excited

1100

00:52:48,410 --> 00:52:46,349

I mean all the times that you've saved

1101
00:52:50,299 --> 00:52:48,420
the enterprise and worked with courage

1102
00:52:54,470 --> 00:52:50,309
bones and it's just it's really a

1103
00:52:59,960 --> 00:52:58,310
Oh Jeannie Scott all even better oh my

1104
00:53:01,099 --> 00:52:59,970
gosh actually a real hero of mine I've

1105
00:53:02,840 --> 00:53:01,109
been in the number of conventions

1106
00:53:05,570 --> 00:53:02,850
Regina's talking it's always been such a

1107
00:53:07,910 --> 00:53:05,580
pleasure so congratulations but it's

1108
00:53:11,359 --> 00:53:07,920
been my great fortune and pleasure to

1109
00:53:13,430 --> 00:53:11,369
learn Eugenie Scott for I guess about 10

1110
00:53:16,370 --> 00:53:13,440
years now and I'm delighted that she's

1111
00:53:19,760 --> 00:53:16,380
been rewarded and given such recognition

1112
00:53:22,700 --> 00:53:19,770
or who work congratulations Eugenia I

1113
00:53:24,290 --> 00:53:22,710

can't think of anyone that deserves to

1114

00:53:26,240 --> 00:53:24,300

be inducted into a hollow mater more

1115

00:53:27,950 --> 00:53:26,250

than you I just want to say thank you

1116

00:53:31,280 --> 00:53:27,960

thank you for all of the work that

1117

00:53:34,070 --> 00:53:31,290

you've done Eugenie's God the main

1118

00:53:36,710 --> 00:53:34,080

conduit and I'm a controversial I'm going

1119

00:53:40,849 --> 00:53:36,720

to do that congratulations and it's

1120

00:53:45,680 --> 00:53:40,859

well-deserved Eugenie's five is just a

1121

00:53:47,359 --> 00:53:45,690

wonderful perfect person she is email

1122

00:53:51,070 --> 00:53:47,369

she's well known source I think she's

1123

00:53:55,370 --> 00:53:51,080

still an unsung hero because she is my

1124

00:53:59,420 --> 00:53:55,380

idol as a right way of being a good

1125

00:54:02,090 --> 00:53:59,430

skeptic and he could educate I know that

1126
00:54:04,280 --> 00:54:02,100
if ncsc hadn't been around blow these 20

1127
00:54:07,670 --> 00:54:04,290
years or so the situation would be a lot

1128
00:54:10,000 --> 00:54:07,680
worse because frankly we are effective

1129
00:54:12,790 --> 00:54:10,010
the creationists we'll talk again

1130
00:54:14,950 --> 00:54:12,800
this is the best job I've ever had no

1131
00:54:47,870 --> 00:54:14,960
question about it I got the best job in

1132
00:54:51,689 --> 00:54:49,739
have you heard the one about how the

1133
00:54:53,219 --> 00:54:51,699
Illuminati in conjunction with the US

1134
00:54:54,989 --> 00:54:53,229
government are hiding the existence of

1135
00:54:57,269 --> 00:54:54,999
aliens in order to ensure the supply of

1136
00:54:58,739 --> 00:54:57,279
helium is kept low although the CIA the

1137
00:55:00,479 --> 00:54:58,749
militant wing of the Freemasons are

1138
00:55:01,920 --> 00:55:00,489

working with the elders of zion to take

1139

00:55:04,439 --> 00:55:01,930

control of the population of the world

1140

00:55:06,209 --> 00:55:04,449

through fluoridated chemtrails canberra

1141

00:55:07,709 --> 00:55:06,219

skeptics incorporated on behalf of the

1142

00:55:09,390 --> 00:55:07,719

shadow government will be massing an

1143

00:55:11,939 --> 00:55:09,400

array of dark forces for the australian

1144

00:55:13,709 --> 00:55:11,949

skeptics national convention 2013 this

1145

00:55:15,299 --> 00:55:13,719

convention has conspired to coincide

1146

00:55:17,640 --> 00:55:15,309

with the 50th anniversary of the

1147

00:55:19,289 --> 00:55:17,650

assassination of John F Kennedy possibly

1148

00:55:21,329 --> 00:55:19,299

the most famous conspiracy theory of all

1149

00:55:23,189 --> 00:55:21,339

time if you've ever wanted to learn

1150

00:55:25,109 --> 00:55:23,199

about the truth behind the death of JFK

1151

00:55:27,029 --> 00:55:25,119

what makes for a good conspiracy theory

1152

00:55:29,009 --> 00:55:27,039

and why they are so prevalent Canberra

1153

00:55:30,749 --> 00:55:29,019

skeptics invites you to attend that is

1154

00:55:33,779 --> 00:55:30,759

of course should you choose to accept it

1155

00:55:36,359 --> 00:55:33,789

come to national skeptics convention org

1156

00:55:48,900 --> 00:55:36,369

and just remember they will be watching

1157

00:55:53,740 --> 00:55:51,430

thank you for listening to the skeptic

1158

00:55:56,110 --> 00:55:53,750

zone now the skeptic so next week we'll

1159

00:55:58,450 --> 00:55:56,120

be coming to you from Melbourne Victoria

1160

00:56:00,400 --> 00:55:58,460

I'll be flying down there very soon

1161

00:56:02,680 --> 00:56:00,410

spending some time with those great

1162

00:56:05,440 --> 00:56:02,690

people down in Victoria getting ready

1163

00:56:07,120 --> 00:56:05,450

for my talk and well I'll be getting

1164

00:56:09,640 --> 00:56:07,130

some interviews and insights from the

1165

00:56:12,340 --> 00:56:09,650

people down in Melbourne in Victoria

1166

00:56:14,650 --> 00:56:12,350

can't wait to see you all there until

1167

00:56:20,710 --> 00:56:14,660

then this is Richard Saunders signing

1168

00:56:23,980 --> 00:56:20,720

off from Sydney Australia you've been

1169

00:56:28,510 --> 00:56:23,990

listening to the skeptic zone visit our

1170

00:56:31,000 --> 00:56:28,520

website at www.skeptics.org on TV for