

Episode **561**

THE  
**SKEPTIC  
ZONE**  
PODCAST

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21 July 2019



Apollo 11  
Front Page News  
July 21 - 1969

Australian Skeptics  
Moon Flyer

Ben Radford - Area 51

Susan Gerbic - Skeptics in Brazil



1  
00:00:05,749 --> 00:00:02,030  
I believe that this nation should commit

2  
00:00:08,390 --> 00:00:05,759  
itself to achieving the goal before this

3  
00:00:10,520 --> 00:00:08,400  
decade is out of landing a man on the

4  
00:00:11,140 --> 00:00:10,530  
moon and returning him safely to the

5  
00:00:13,820 --> 00:00:11,150  
earth

6  
00:00:16,970 --> 00:00:13,830  
no single space project in this period

7  
00:00:18,680 --> 00:00:16,980  
will be more impressive to mankind or

8  
00:00:22,040 --> 00:00:18,690  
more important for the long-range

9  
00:00:30,339 --> 00:00:22,050  
exploration of space and none will be so

10  
00:00:36,260 --> 00:00:33,500  
welcome to the skipped exert the podcast

11  
00:00:46,740 --> 00:00:36,270  
from Australia for science and reason

12  
00:00:50,349 --> 00:00:46,750  
[Music]

13  
00:00:53,619 --> 00:00:50,359

yes welcome to this lunar episode of the

14

00:00:59,410 --> 00:00:53,629

skeptics own podcast episode number 561

15

00:01:00,669 --> 00:00:59,420

for the 21st of July 1969 2019 and I

16

00:01:05,139 --> 00:01:00,679

think I mentioned on last week's show

17

00:01:07,560 --> 00:01:05,149

that exactly fifty years ago as I record

18

00:01:11,620 --> 00:01:07,570

this I was sitting in front of the TV

19

00:01:14,260 --> 00:01:11,630

watching yeah the moon landing although

20

00:01:16,660 --> 00:01:14,270

I don't really remember it but coming up

21

00:01:19,240 --> 00:01:16,670

on this week's show something well maybe

22

00:01:21,550 --> 00:01:19,250

some listeners would remember reading

23

00:01:25,539 --> 00:01:21,560

the front page of The Sydney Morning

24

00:01:28,719 --> 00:01:25,549

Herald newspaper published exactly 50

25

00:01:31,899 --> 00:01:28,729

years ago this morning as I record as a

26

00:01:34,180 --> 00:01:31,909

tribute to the Apollo mission I will

27

00:01:35,889 --> 00:01:34,190

read most of the front page of The

28

00:01:40,240 --> 00:01:35,899

Sydney Morning Herald coming up very

29

00:01:43,270 --> 00:01:40,250

soon men on moon US astronauts open a

30

00:01:45,190 --> 00:01:43,280

new era for mankind man has landed on

31

00:01:47,260 --> 00:01:45,200

the moon the u.s. spacecraft eagle

32

00:01:50,170 --> 00:01:47,270

carrying Neil Armstrong and Edwin Aldrin

33

00:01:51,069 --> 00:01:50,180

touched down on the lunar surface early

34

00:01:54,039 --> 00:01:51,079

today

35

00:01:56,789 --> 00:01:54,049

Sydney time how exciting that must have

36

00:01:59,139 --> 00:01:56,799

been for people reading that at the time

37

00:02:01,660 --> 00:01:59,149

following that I'm going to read a New

38

00:02:03,969 --> 00:02:01,670

Flyer or should I say a revamped flyer

39

00:02:07,209 --> 00:02:03,979

from Australian skeptics dealing with

40

00:02:10,509 --> 00:02:07,219

the moon landing hoax the so called moon

41

00:02:13,300 --> 00:02:10,519

landing hoax and I must say that this

42

00:02:15,490 --> 00:02:13,310

whole people never went to the moon

43

00:02:19,449 --> 00:02:15,500

NASA is lying to us conspiracy theory

44

00:02:21,819 --> 00:02:19,459

it's really really faded away over the

45

00:02:24,580 --> 00:02:21,829

last few years it's still around there

46

00:02:26,860 --> 00:02:24,590

are still those people on line pushing

47

00:02:29,110 --> 00:02:26,870

this and bringing up old arguments I

48

00:02:32,050 --> 00:02:29,120

still know people who firmly believe

49

00:02:34,120 --> 00:02:32,060

that Neil Armstrong and Buzz Aldrin

50

00:02:36,880 --> 00:02:34,130

never went to the moon and neither did

51  
00:02:40,630 --> 00:02:36,890  
anybody else but I'm glad to say this

52  
00:02:43,300 --> 00:02:40,640  
conspiracy is I think it's virtually

53  
00:02:44,500 --> 00:02:43,310  
died its own death nevertheless the

54  
00:02:47,319 --> 00:02:44,510  
Australian skeptics have put out a

55  
00:02:50,080 --> 00:02:47,329  
revamped flyer about this issue moon

56  
00:02:52,509 --> 00:02:50,090  
landings were no hoax which explore some

57  
00:02:55,089 --> 00:02:52,519  
of the major points put forward by

58  
00:02:57,460 --> 00:02:55,099  
conspiracy theorists then I catch up

59  
00:02:58,720 --> 00:02:57,470  
with Ben Radford from Albuquerque New

60  
00:03:02,140 --> 00:02:58,730  
Mexico and one of the co

61  
00:03:03,580 --> 00:03:02,150  
hosts of squaring the strange because

62  
00:03:05,530 --> 00:03:03,590  
it's come to my attention and maybe

63  
00:03:08,229 --> 00:03:05,540

you've heard it too by now that there's

64

00:03:12,670 --> 00:03:08,239

some sort of wacky plan or maybe it's a

65

00:03:15,369 --> 00:03:12,680

hoax to to storm area 51 the US

66

00:03:22,270 --> 00:03:15,379

government testing area in the Nevada

67

00:03:25,240 --> 00:03:22,280

desert and it seems like a very ill

68

00:03:28,449 --> 00:03:25,250

conceived idea so we strongly suspect

69

00:03:30,550 --> 00:03:28,459

it's just a silly hoax and a silly hoax

70

00:03:33,729 --> 00:03:30,560

that maybe has gone a bit wrong because

71

00:03:35,500 --> 00:03:33,739

if people do turn up the last thing

72

00:03:38,020 --> 00:03:35,510

they're going to be doing is storing

73

00:03:41,110 --> 00:03:38,030

area 51 getting anywhere near it

74

00:03:44,259 --> 00:03:41,120

but what's the story behind this area 51

75

00:03:45,640 --> 00:03:44,269

we find out with Ben Radford then to

76

00:03:48,339 --> 00:03:45,650

round off the show it's susan gerbic

77

00:03:52,569 --> 00:03:48,349

with her new segment yes it's about time

78

00:03:54,940 --> 00:03:52,579

I think we need to think through susan

79

00:03:58,390 --> 00:03:54,950

gerbic and susan this week chats to

80

00:04:01,839 --> 00:03:58,400

Carlos OC and Natalia Pasternak from

81

00:04:05,110 --> 00:04:01,849

Brazil a couple of Brazilian skeptics

82

00:04:08,440 --> 00:04:05,120

trying to get skepticism really underway

83

00:04:10,780 --> 00:04:08,450

in that South American country what's

84

00:04:13,270 --> 00:04:10,790

the story with pseudoscience in Brazil

85

00:04:16,060 --> 00:04:13,280

find out with susan gerbic at the end of

86

00:04:19,060 --> 00:04:16,070

the show but now it's time for me to run

87

00:04:20,800 --> 00:04:19,070

down the stairs jump into my car drive

88

00:04:24,490 --> 00:04:20,810

to some sort of spaceport and go to the

89

00:04:26,200 --> 00:04:24,500

moon yes that would be fun cause I think

90

00:04:28,960 --> 00:04:26,210

that's really not going to happen maybe

91

00:04:33,610 --> 00:04:28,970

instead I should have some some nice

92

00:04:37,360 --> 00:04:33,620

sushi followed by coffee sound good to

93

00:04:49,990 --> 00:04:37,370

you well I do that I hope you enjoy the

94

00:04:56,790 --> 00:04:54,340

[Music]

95

00:05:02,580 --> 00:04:56,800

[Applause]

96

00:05:05,700 --> 00:05:02,590

five four three two one

97

00:05:33,400 --> 00:05:30,310

we have a baby one all philtrum and when

98

00:05:35,740 --> 00:05:33,410

contemplating what what I should do for

99

00:05:39,040 --> 00:05:35,750

the 50th anniversary of the moon landing

100

00:05:41,350 --> 00:05:39,050

I thought I would do a bit of research

101  
00:05:45,910 --> 00:05:41,360  
and look at the front page of The Sydney

102  
00:05:48,280 --> 00:05:45,920  
Morning Herald newspaper to see what

103  
00:05:52,650 --> 00:05:48,290  
people of the time fifty years ago in

104  
00:05:57,420 --> 00:05:52,660  
Sydney in Australia were reading and so

105  
00:06:03,790 --> 00:05:57,430  
the Sydney Morning Herald Monday July 21

106  
00:06:06,980 --> 00:06:03,800  
1969 banner headline men on moon US

107  
00:06:11,149 --> 00:06:06,990  
astronauts open a new era for mankind

108  
00:06:17,999 --> 00:06:14,579  
and this is from Peter Michael Moore and

109  
00:06:22,859 --> 00:06:18,009  
Roy McCartney at Mission Control Houston

110  
00:06:26,100 --> 00:06:22,869  
Texas and aap man has landed on the moon

111  
00:06:28,949 --> 00:06:26,110  
the u.s. spacecraft eagle carrying Neil

112  
00:06:31,290 --> 00:06:28,959  
Armstrong and Edwin Aldrin touched down

113  
00:06:34,609 --> 00:06:31,300

on the lunar surface early today

114

00:06:37,649 --> 00:06:34,619

Sydney time the astronauts landing

115

00:06:40,889 --> 00:06:37,659

mankind's first on another celestial

116

00:06:44,100 --> 00:06:40,899

body opens a new era in the history of

117

00:06:46,290 --> 00:06:44,110

the human race as the Columbia piloted

118

00:06:48,829 --> 00:06:46,300

by Michael Collins continued to circle

119

00:06:51,889 --> 00:06:48,839

the moon the lunar module Eagle

120

00:06:56,070 --> 00:06:51,899

separated from it at a height of about

121

00:06:59,459 --> 00:06:56,080

50,000 feet and the speed of 3500 miles

122

00:07:02,279 --> 00:06:59,469

per hour the Eagle crew fired the engine

123

00:07:04,079 --> 00:07:02,289

which slowed its velocity and then it

124

00:07:07,290 --> 00:07:04,089

began dropping towards the moon's

125

00:07:09,570 --> 00:07:07,300

surface after maneuvering into an

126

00:07:13,019 --> 00:07:09,580

upright position for its final descent

127

00:07:17,070 --> 00:07:13,029

the Eagle aligned astride a pillar of

128

00:07:20,070 --> 00:07:17,080

rocket flame touchdown came 102 hours

129

00:07:22,409 --> 00:07:20,080

after liftoff from the earth Armstrong

130

00:07:25,739 --> 00:07:22,419

and Aldrin was scheduled to make a

131

00:07:27,959 --> 00:07:25,749

two-hour check of the Eagle for possible

132

00:07:30,449 --> 00:07:27,969

damage following the landing if they

133

00:07:32,850 --> 00:07:30,459

found serious faults such as leaking

134

00:07:34,409 --> 00:07:32,860

fuel or falling cabin pressure they were

135

00:07:36,749 --> 00:07:34,419

under instructions to take off

136

00:07:39,600 --> 00:07:36,759

immediately and rejoined Collins in the

137

00:07:42,689 --> 00:07:39,610

Columbia all being well they are

138

00:07:45,959 --> 00:07:42,699

scheduled to eat take a four-hour rest

139

00:07:48,179 --> 00:07:45,969

and eat again before Armstrong emerges

140

00:07:50,219 --> 00:07:48,189

from the eagle but there is a strong

141

00:07:52,709 --> 00:07:50,229

possibility that Armstrong will make his

142

00:07:56,069 --> 00:07:52,719

lunar walk early perhaps only three

143

00:07:59,339 --> 00:07:56,079

hours after touchdown instead of at 4:16

144

00:08:01,529 --> 00:07:59,349

p.m. and scheduled when he does his

145

00:08:05,519 --> 00:08:01,539

steps will be imprinted for all time on

146

00:08:06,449 --> 00:08:05,529

the records and the minds of men checks

147

00:08:10,049 --> 00:08:06,459

ahead of schedule

148

00:08:12,329 --> 00:08:10,059

the astronauts awoke on schedule soon

149

00:08:14,129 --> 00:08:12,339

after nine o'clock last night behind

150

00:08:16,649 --> 00:08:14,139

them was a day in which they entered

151

00:08:19,409 --> 00:08:16,659

lunar orbit then circled the moon ten

152

00:08:21,299 --> 00:08:19,419

times the astronauts had slept for about

153

00:08:22,930 --> 00:08:21,309

five hours before Mission Control in

154

00:08:25,540 --> 00:08:22,940

Houston roused them

155

00:08:27,880 --> 00:08:25,550

the initial conversation carried no hint

156

00:08:30,970 --> 00:08:27,890

of the historic moment looming nine

157

00:08:33,810 --> 00:08:30,980

hours ahead capsule communicator ron

158

00:08:37,719 --> 00:08:33,820

evans put in the wake-up call at about

159

00:08:40,600 --> 00:08:37,729

904 p.m. as the ship passed behind the

160

00:08:43,930 --> 00:08:40,610

moon collins answered the call with a

161

00:08:47,050 --> 00:08:43,940

pause good morning houston you guys are

162

00:08:47,830 --> 00:08:47,060

sure up early then the crew lapsed into

163

00:08:50,200 --> 00:08:47,840

silence

164

00:08:52,360 --> 00:08:50,210

eating breakfast and beginning the

165

00:08:55,990 --> 00:08:52,370

checks to make sure their spaceship was

166

00:08:58,690 --> 00:08:56,000

ready to perform the landing breakfast

167

00:09:03,160 --> 00:08:58,700

was peaches bacon squares strawberry

168

00:09:05,410 --> 00:09:03,170

cubes orange and grape drinks sixty

169

00:09:08,590 --> 00:09:05,420

miles below Apollo stretched the moon's

170

00:09:12,010 --> 00:09:08,600

airless jagged hostile face and its

171

00:09:14,200 --> 00:09:12,020

searing temperatures first move Aldrin

172

00:09:16,630 --> 00:09:14,210

made the first move of the most vital

173

00:09:20,010 --> 00:09:16,640

day at the end of the tenth orbit of the

174

00:09:22,780 --> 00:09:20,020

moon he left Columbia about 11:20 p.m.

175

00:09:24,760 --> 00:09:22,790

Sydney time and slipped through a

176

00:09:27,910 --> 00:09:24,770

connecting tunnel into the ungainly

177

00:09:30,640 --> 00:09:27,920

looking Eagle there he turned on the

178

00:09:32,980 --> 00:09:30,650

power and pressurized the ship he was

179

00:09:35,500 --> 00:09:32,990

followed in by Armstrong the module

180

00:09:38,170 --> 00:09:35,510

pilot and after examination of all

181

00:09:40,720 --> 00:09:38,180

controls and dials they reported back to

182

00:09:43,510 --> 00:09:40,730

Houston we're in good shape they were

183

00:09:46,570 --> 00:09:43,520

going further and further ahead of the

184

00:09:49,270 --> 00:09:46,580

work schedule all the date they had

185

00:09:52,120 --> 00:09:49,280

Eagle powered in 30 minutes ahead of the

186

00:09:54,730 --> 00:09:52,130

flight plan less than three hours from

187

00:09:57,030 --> 00:09:54,740

Eagle undocking and a bear five and a

188

00:10:00,070 --> 00:09:57,040

half hours from the scheduled touchdown

189

00:10:02,590 --> 00:10:00,080

everything was going perfectly for the

190

00:10:04,990 --> 00:10:02,600

first time in flight Houston control was

191

00:10:08,620 --> 00:10:05,000

calling the Eagle and Columbia by name

192

00:10:10,720 --> 00:10:08,630

instead of Apollo 11 Armstrong had

193

00:10:14,430 --> 00:10:10,730

donned his pressure suit to enter the

194

00:10:17,110 --> 00:10:14,440

Eagle and of course this story goes on

195

00:10:20,770 --> 00:10:17,120

most of the first page most of the front

196

00:10:23,830 --> 00:10:20,780

page and continued on let's see it's

197

00:10:25,540 --> 00:10:23,840

continued on page three and we read on a

198

00:10:28,870 --> 00:10:25,550

little bit more from page three which

199

00:10:32,170 --> 00:10:28,880

says the Apollo 11 saga the first day on

200

00:10:35,530 --> 00:10:32,180

the moon and this page says in part on

201  
00:10:36,759 --> 00:10:35,540  
paper Armstrong and Aldrin are supposed

202  
00:10:39,759 --> 00:10:36,769  
to stay in the

203  
00:10:42,489 --> 00:10:39,769  
Eagles cramped cabin for nine hours 53

204  
00:10:45,729 --> 00:10:42,499  
minutes before setting foot outside onto

205  
00:10:48,400 --> 00:10:45,739  
the crater pocked bed of the Sea of

206  
00:10:50,530 --> 00:10:48,410  
Tranquility besides making sure their

207  
00:10:52,509 --> 00:10:50,540  
ship is in good shape for takeoff they

208  
00:10:55,210 --> 00:10:52,519  
are scheduled to eat and rest with a

209  
00:10:57,729 --> 00:10:55,220  
goal long thought to be unobtainable a

210  
00:11:00,340 --> 00:10:57,739  
nine rung ladders length away

211  
00:11:02,799 --> 00:11:00,350  
Armstrong before the flight doubted he

212  
00:11:05,439 --> 00:11:02,809  
would be able to sleep if mission

213  
00:11:08,139 --> 00:11:05,449

controllers are sure the space ship was

214

00:11:09,519 --> 00:11:08,149

not damaged on landing and if doctors

215

00:11:13,119 --> 00:11:09,529

are satisfied that the men are

216

00:11:16,059 --> 00:11:13,129

well-rested their slow stroll across the

217

00:11:18,189 --> 00:11:16,069

airless moon scape could begin any time

218

00:11:20,979 --> 00:11:18,199

after landing the lunar surface

219

00:11:24,669 --> 00:11:20,989

timetable calls for the astronauts to

220

00:11:27,850 --> 00:11:24,679

spend 21 hours 36 minutes on the moon 2

221

00:11:35,619 --> 00:11:27,860

hours and 40 minutes of that exploring

222

00:11:37,239 --> 00:11:35,629

the area around their spaceship can you

223

00:11:39,789 --> 00:11:37,249

imagine what it must have been like for

224

00:11:44,169 --> 00:11:39,799

those people in Sydney and Australia and

225

00:11:47,139 --> 00:11:44,179

the world 50 years ago 50 years ago

226

00:11:48,819 --> 00:11:47,149

reading that in the newspapers or having

227

00:11:52,269 --> 00:11:48,829

just watched some of that on the

228

00:11:55,720 --> 00:11:52,279

television but all in this report with

229

00:12:00,910 --> 00:11:55,730

another little section in the in the

230

00:12:04,509 --> 00:12:00,920

paper on the third page watching for

231

00:12:06,489 --> 00:12:04,519

bunny-girl when ground control read the

232

00:12:09,009 --> 00:12:06,499

morning news to the Apollo astronauts

233

00:12:10,960 --> 00:12:09,019

they were told that one of the articles

234

00:12:12,819 --> 00:12:10,970

about their mission made a special plea

235

00:12:15,309 --> 00:12:12,829

that they should look out for a

236

00:12:18,419 --> 00:12:15,319

beautiful Chinese girl who had been

237

00:12:21,189 --> 00:12:18,429

banished to the moon 4,000 years ago

238

00:12:23,369 --> 00:12:21,199

according to the legend the Chinese girl

239

00:12:27,429 --> 00:12:23,379

was accompanied by a large Chinese

240

00:12:32,970 --> 00:12:27,439

rabbit okay said Armstrong we'll keep a

241

00:12:38,220 --> 00:12:35,600

[Applause]

242

00:12:40,380 --> 00:12:38,230

downloadable printable information flyer

243

00:12:46,830 --> 00:12:40,390

from Australian skeptics released on the

244

00:12:56,040 --> 00:12:46,840

16th of July 2019 moon landings were no

245

00:12:58,200 --> 00:12:56,050

hoax on July 20th 1969 two men from the

246

00:13:01,140 --> 00:12:58,210

planet Earth first set foot upon the

247

00:13:04,380 --> 00:13:01,150

moon millions of people around the world

248

00:13:06,090 --> 00:13:04,390

were riveted to their TV screens as Neil

249

00:13:07,520 --> 00:13:06,100

Armstrong stepped from the landing

250

00:13:52,710 --> 00:13:07,530

module

251  
00:13:55,260 --> 00:13:52,720  
reading from the reality TV pas

252  
00:13:58,380 --> 00:13:55,270  
excellence for the next two years and

253  
00:14:01,190 --> 00:13:58,390  
five more successful missions later the

254  
00:14:03,900 --> 00:14:01,200  
number of moon walkers had reached 12

255  
00:14:08,250 --> 00:14:03,910  
since the last of these missions Apollo

256  
00:14:10,890 --> 00:14:08,260  
17 splashed down in 1972 momentum has

257  
00:14:13,530 --> 00:14:10,900  
gathered for the proposition that we

258  
00:14:16,220 --> 00:14:13,540  
have all been misled by the US

259  
00:14:19,230 --> 00:14:16,230  
government and by NASA in particular

260  
00:14:22,680 --> 00:14:19,240  
that the whole endeavor was somehow

261  
00:14:26,220 --> 00:14:22,690  
faked and no one has in fact visited the

262  
00:14:29,310 --> 00:14:26,230  
moon this conspiracy theory gained much

263  
00:14:32,910 --> 00:14:29,320

attention in the early 2000s with Fox's

264

00:14:35,490 --> 00:14:32,920

TV special conspiracy theory did we land

265

00:14:38,430 --> 00:14:35,500

on the moon which aired in the USA in

266

00:14:41,250 --> 00:14:38,440

February 2001 millions of viewers

267

00:14:43,350 --> 00:14:41,260

apparently found the pro hoax arguments

268

00:14:45,810 --> 00:14:43,360

persuasive and convincing

269

00:14:47,260 --> 00:14:45,820

according to Fox there were the

270

00:14:49,240 --> 00:14:47,270

technical experts

271

00:14:51,850 --> 00:14:49,250

American and Russian who claimed that

272

00:14:55,270 --> 00:14:51,860

NASA did not possess the technology in

273

00:14:58,360 --> 00:14:55,280

1969 to achieve these feats or at least

274

00:15:00,760 --> 00:14:58,370

the likelihood of success was so tiny

275

00:15:02,320 --> 00:15:00,770

that the risk of a real moon landing

276

00:15:04,330 --> 00:15:02,330

would not have been seriously

277

00:15:08,050 --> 00:15:04,340

contemplated some of the other

278

00:15:12,100 --> 00:15:08,060

sensational facts put forward in 2001

279

00:15:14,110 --> 00:15:12,110

and still being used today are the film

280

00:15:16,840 --> 00:15:14,120

footage of the astronauts on the moon is

281

00:15:19,180 --> 00:15:16,850

said to contain so many technical errors

282

00:15:23,140 --> 00:15:19,190

that it must have been shot in a studio

283

00:15:26,590 --> 00:15:23,150

on earth the flag when planted appears

284

00:15:29,740 --> 00:15:26,600

to wave in the breeze even though the

285

00:15:34,120 --> 00:15:29,750

moon is airless although the moon's sky

286

00:15:36,310 --> 00:15:34,130

is black there are no stars no blast

287

00:15:39,280 --> 00:15:36,320

crater is visible under the landing

288

00:15:42,130 --> 00:15:39,290

module the shadows appear to go in

289

00:15:45,370 --> 00:15:42,140

different directions so there must be

290

00:15:48,720 --> 00:15:45,380

several studio light sources in

291

00:15:50,980 --> 00:15:48,730

providing a motivation for a nasa hoax

292

00:15:53,470 --> 00:15:50,990

conspiracy theorists point to the

293

00:15:55,270 --> 00:15:53,480

intense rivalry between the USA and the

294

00:15:58,990 --> 00:15:55,280

Eastern Bloc that existed at the time

295

00:16:02,230 --> 00:15:59,000

the USSR had in fact already beaten the

296

00:16:04,810 --> 00:16:02,240

USA time and time again in the so called

297

00:16:07,810 --> 00:16:04,820

space race and had been first the

298

00:16:10,660 --> 00:16:07,820

photograph the moon's dark side when

299

00:16:12,790 --> 00:16:10,670

President Kennedy pronounced in 1963

300

00:16:15,970 --> 00:16:12,800

that the USA would land men on the moon

301  
00:16:18,790 --> 00:16:15,980  
before this decade is out he committed

302  
00:16:22,120 --> 00:16:18,800  
future governments to a goal that had to

303  
00:16:24,850 --> 00:16:22,130  
be seen to be achieved at all costs it

304  
00:16:28,060 --> 00:16:24,860  
was important for status and diplomacy

305  
00:16:31,480 --> 00:16:28,070  
abroad the USA was also deeply involved

306  
00:16:33,730 --> 00:16:31,490  
in an increasingly unpopular war in

307  
00:16:36,040 --> 00:16:33,740  
Vietnam three successive presidents were

308  
00:16:37,900 --> 00:16:36,050  
keen to be associated with their

309  
00:16:40,960 --> 00:16:37,910  
positive news that the Apollo program

310  
00:16:44,080 --> 00:16:40,970  
generated and while Apollo was expensive

311  
00:16:46,470 --> 00:16:44,090  
by some measures it was not that costly

312  
00:16:49,450 --> 00:16:46,480  
compared with America's defense and

313  
00:16:52,690 --> 00:16:49,460

diplomatic budgets the possibility of

314

00:16:53,200 --> 00:16:52,700

failure of the Apollo program was not an

315

00:16:56,470 --> 00:16:53,210

option

316

00:16:58,510 --> 00:16:56,480

but the USA clearly did have the

317

00:17:01,000 --> 00:16:58,520

technology to launch a moon shot which

318

00:17:03,519 --> 00:17:01,010

could be sufficiently large to

319

00:17:06,010 --> 00:17:03,529

three men and which using several

320

00:17:09,250 --> 00:17:06,020

disposable stages of decreasing size

321

00:17:12,640 --> 00:17:09,260

could land on the moon takeoff and

322

00:17:14,890 --> 00:17:12,650

return to a soft splashdown on earth we

323

00:17:18,640 --> 00:17:14,900

know this because the telemetry of

324

00:17:21,789 --> 00:17:18,650

unfriendly States USSR China East

325

00:17:24,069 --> 00:17:21,799

Germany reported that this is exactly

326

00:17:26,559 --> 00:17:24,079

what happened in later Apollo missions

327

00:17:28,750 --> 00:17:26,569

it is important to note that the Eastern

328

00:17:31,090 --> 00:17:28,760

Bloc raised no doubts in this area

329

00:17:34,090 --> 00:17:31,100

although they would have probably been

330

00:17:35,860 --> 00:17:34,100

hoping for an American failure to offset

331

00:17:39,250 --> 00:17:35,870

the considerable difficulties that the

332

00:17:41,830 --> 00:17:39,260

USSR s program was experiencing these

333

00:17:43,810 --> 00:17:41,840

countries would have alerted the rest of

334

00:17:47,440 --> 00:17:43,820

the world if they had evidence the

335

00:17:52,060 --> 00:17:47,450

missions were somehow faked the two most

336

00:17:54,250 --> 00:17:52,070

quoted flaws are the flag waving and the

337

00:17:58,510 --> 00:17:54,260

lack of stars and photographs of the

338

00:18:01,480 --> 00:17:58,520

moon's sky when the metallic flagpole

339

00:18:04,810 --> 00:18:01,490

was planted by twisting it into the soil

340

00:18:08,169 --> 00:18:04,820

it had a certain springiness causing the

341

00:18:10,270 --> 00:18:08,179

flag to ripple that wave continued

342

00:18:13,330 --> 00:18:10,280

because there is no atmosphere to dampen

343

00:18:16,060 --> 00:18:13,340

it once the flag stopped the ripples

344

00:18:18,370 --> 00:18:16,070

were frozen into place which is why the

345

00:18:21,580 --> 00:18:18,380

shape of the flag is the same in all

346

00:18:23,380 --> 00:18:21,590

subsequent photos and movies exactly

347

00:18:25,450 --> 00:18:23,390

what you would expect on the surface of

348

00:18:28,240 --> 00:18:25,460

the Moon next time you want to take a

349

00:18:30,580 --> 00:18:28,250

photograph of somebody at night you will

350

00:18:33,340 --> 00:18:30,590

need to control the amount of light from

351  
00:18:36,760 --> 00:18:33,350  
your subject if you expose them properly

352  
00:18:38,770 --> 00:18:36,770  
you will not see stars in the sky if you

353  
00:18:40,870 --> 00:18:38,780  
allow sufficient light for the stars to

354  
00:18:42,940 --> 00:18:40,880  
become visible in the developed

355  
00:18:46,210 --> 00:18:42,950  
photograph everything else in the

356  
00:18:49,830 --> 00:18:46,220  
photograph will be way overexposed the

357  
00:18:52,419 --> 00:18:49,840  
surface of the Moon is extremely bright

358  
00:18:54,460 --> 00:18:52,429  
hundreds of thousands of people all

359  
00:18:58,450 --> 00:18:54,470  
around the world who worked on the

360  
00:19:00,780 --> 00:18:58,460  
missions would have to be lying or have

361  
00:19:04,060 --> 00:19:00,790  
been massively and expensively

362  
00:19:06,640 --> 00:19:04,070  
hoodwinked these include a considerable

363  
00:19:08,200 --> 00:19:06,650

part of the Pacific Fleet responsible

364

00:19:10,659 --> 00:19:08,210

for recovery of the astronauts at

365

00:19:12,460 --> 00:19:10,669

splashdown it also includes the media

366

00:19:14,020 --> 00:19:12,470

reporters and technicians who were

367

00:19:16,510 --> 00:19:14,030

present at those events

368

00:19:19,090 --> 00:19:16,520

it includes trackers around the world

369

00:19:21,730 --> 00:19:19,100

including Australians at the parks dish

370

00:19:25,240 --> 00:19:21,740

who monitored voice communication when

371

00:19:27,730 --> 00:19:25,250

the astronauts were overhead continuing

372

00:19:28,300 --> 00:19:27,740

to believe that the moon landings were

373

00:19:30,910 --> 00:19:28,310

faked

374

00:19:32,890 --> 00:19:30,920

despite the solid evidence from many

375

00:19:36,030 --> 00:19:32,900

quarters that confirms the missions

376

00:19:39,280 --> 00:19:36,040

despite the thorough and painstaking

377

00:19:42,070 --> 00:19:39,290

debunking of every major objection from

378

00:19:45,250 --> 00:19:42,080

the conspiracy theorists from popular TV

379

00:19:48,550 --> 00:19:45,260

shows such as Mythbusters to hundreds of

380

00:19:51,910 --> 00:19:48,560

detailed explanations online is not

381

00:19:55,000 --> 00:19:51,920

being skeptical it is being a science

382

00:19:57,700 --> 00:19:55,010

denier it is the same mindset that leads

383

00:20:00,670 --> 00:19:57,710

people to deny the earth is round or

384

00:20:03,400 --> 00:20:00,680

that climate change is also just another

385

00:20:05,950 --> 00:20:03,410

hoax the moon landings are among the

386

00:20:08,560 --> 00:20:05,960

greatest technological achievement of

387

00:20:15,490 --> 00:20:08,570

humankind with significant cultural

388

00:20:17,740 --> 00:20:15,500

impact they were real and that flyer can

389

00:20:20,500 --> 00:20:17,750

be downloaded from Australian skeptics

390

00:20:24,220 --> 00:20:20,510

I'll will add a link in the show notes

391

00:20:27,420 --> 00:20:24,230

and it's worth remembering that part of

392

00:20:29,710 --> 00:20:27,430

that flyer says that every major

393

00:20:33,610 --> 00:20:29,720

objection from the conspiracy theories

394

00:20:37,120 --> 00:20:33,620

has been debunked and when you get into

395

00:20:42,130 --> 00:20:37,130

that online on YouTube and other areas

396

00:20:44,890 --> 00:20:42,140

it's extraordinary the satisfying detail

397

00:20:47,640 --> 00:20:44,900

for which every conspiracy theory every

398

00:20:51,450 --> 00:20:47,650

objection every what about this from the

399

00:20:55,900 --> 00:20:51,460

conspiracy theorists has been dealt with

400

00:20:59,470 --> 00:20:55,910

thoroughly extensively logically

401  
00:21:01,780 --> 00:20:59,480  
scientifically and I think the flyer is

402  
00:21:05,340 --> 00:21:01,790  
quite right when faced with all this

403  
00:21:08,800 --> 00:21:05,350  
evidence and the disintegration of their

404  
00:21:10,360 --> 00:21:08,810  
arguments if people are still willing to

405  
00:21:13,120 --> 00:21:10,370  
believe the moon landings were faked

406  
00:21:15,790 --> 00:21:13,130  
well that's about as far from being a

407  
00:21:18,580 --> 00:21:15,800  
skeptic as you can get and much related

408  
00:21:20,740 --> 00:21:18,590  
to the theory that the moon landings

409  
00:21:24,270 --> 00:21:20,750  
were faked is the new movement about the

410  
00:21:27,520 --> 00:21:24,280  
Flat Earth and I will link to the

411  
00:21:30,130 --> 00:21:27,530  
YouTube channel of Simon dan from the UK

412  
00:21:32,760 --> 00:21:30,140  
who regularly takes flat-earthers to

413  
00:21:35,800 --> 00:21:32,770

task and of course we don't forget

414

00:21:38,580 --> 00:21:35,810

professor Dave explains and he has some

415

00:21:41,560 --> 00:21:38,590

wonderful videos dealing with the

416

00:21:44,950 --> 00:21:41,570

bizarre arguments put forward by the

417

00:21:46,970 --> 00:21:44,960

Flat Earth conspiracy crowd again all

418

00:21:56,470 --> 00:21:46,980

the links in this week's show nerds

419

00:21:58,940 --> 00:21:56,480

[Music]

420

00:22:01,190 --> 00:21:58,950

the reason was the interview show from

421

00:22:02,450 --> 00:22:01,200

the Merseyside skeptic society where

422

00:22:04,490 --> 00:22:02,460

each month I speak to someone about

423

00:22:06,770 --> 00:22:04,500

their fringe beliefs over the Earth's

424

00:22:08,840 --> 00:22:06,780

have spoken to psychics UFO believers

425

00:22:10,970 --> 00:22:08,850

moon landing and ayahs flat earthers

426  
00:22:12,830 --> 00:22:10,980  
Hollow Earth as an all manner of unusual

427  
00:22:14,600 --> 00:22:12,840  
conspiracy theorists but I've also

428  
00:22:16,970 --> 00:22:14,610  
talked to a denialists white

429  
00:22:18,500 --> 00:22:16,980  
supremacists gay conversion therapies

430  
00:22:20,360 --> 00:22:18,510  
I even interviewed Jim Humble the

431  
00:22:22,070 --> 00:22:20,370  
inventor of miracle mineral supplement a

432  
00:22:23,630 --> 00:22:22,080  
form of industrial bleach that he and

433  
00:22:26,450 --> 00:22:23,640  
his followers used to treat cancer and

434  
00:22:28,580 --> 00:22:26,460  
HIV this isn't a debate show my aim

435  
00:22:30,890 --> 00:22:28,590  
isn't to win an argument but when we

436  
00:22:33,020 --> 00:22:30,900  
listen to how people promote and justify

437  
00:22:35,000 --> 00:22:33,030  
the ideas that we disagree with even the

438  
00:22:36,740 --> 00:22:35,010

dangerous ones I think we become much

439

00:22:38,570 --> 00:22:36,750

more effective at countering those ideas

440

00:22:40,640 --> 00:22:38,580

if that sounds like something you'd be

441

00:22:42,620 --> 00:22:40,650

interested in look for be reasonable on

442

00:22:43,510 --> 00:22:42,630

Apple podcasts and everywhere else the

443

00:23:00,800 --> 00:22:43,520

podcast

444

00:23:04,529 --> 00:23:02,460

[Applause]

445

00:23:07,020 --> 00:23:04,539

and joining me now all the way from

446

00:23:09,029 --> 00:23:07,030

beautiful Albuquerque New Mexico and I

447

00:23:11,430 --> 00:23:09,039

know it's beautiful folks cuz I was

448

00:23:14,390 --> 00:23:11,440

there only a matter of weeks ago

449

00:23:16,890 --> 00:23:14,400

visiting my friend Ben Redfern hello Ben

450

00:23:19,740 --> 00:23:16,900

hello Richard great gates talk to you

451

00:23:21,690 --> 00:23:19,750

yes and what a wonderful time I did have

452

00:23:25,529 --> 00:23:21,700

an Albuquerque thank you very much for

453

00:23:27,270 --> 00:23:25,539

showing me around and and as I mentioned

454

00:23:30,539 --> 00:23:27,280

on last week's show we even had the

455

00:23:32,159 --> 00:23:30,549

bizarre situation where you would took a

456

00:23:33,840 --> 00:23:32,169

photograph of me just on the highway

457

00:23:36,090 --> 00:23:33,850

there and the lovely desert in the

458

00:23:40,710 --> 00:23:36,100

background and a UFO appeared in the

459

00:23:42,720 --> 00:23:40,720

photograph literally literally it was

460

00:23:46,230 --> 00:23:42,730

not identified I I still have no idea

461

00:23:48,860 --> 00:23:46,240

what it was you know with Ockham's razor

462

00:23:51,180 --> 00:23:48,870

we could narrow down pretty quickly

463

00:23:53,549 --> 00:23:51,190

strictly speaking I haven't the faintest

464

00:23:55,710 --> 00:23:53,559

what it is but I love the fact that that

465

00:24:00,240 --> 00:23:55,720

you being you took the photograph of me

466

00:24:01,890 --> 00:24:00,250

being me and there it is thank you that

467

00:24:04,950 --> 00:24:01,900

was worth its weight in gold I think

468

00:24:07,860 --> 00:24:04,960

maybe Ben maybe that UFO was on its way

469

00:24:10,110 --> 00:24:07,870

to area 51 and that's what we're

470

00:24:12,120 --> 00:24:10,120

discussing with you today because it's

471

00:24:13,970 --> 00:24:12,130

come to my attention and this is getting

472

00:24:17,820 --> 00:24:13,980

a lot of lot of traction on the internet

473

00:24:19,590 --> 00:24:17,830

that what started out as probably a joke

474

00:24:23,490 --> 00:24:19,600

has seemed to have grown into something

475

00:24:27,169 --> 00:24:23,500

much more and this involves supposedly a

476

00:24:29,820 --> 00:24:27,179

million people turning up at area 51 to

477

00:24:31,890 --> 00:24:29,830

land evidence of aliens now there's so

478

00:24:35,490 --> 00:24:31,900

many sides to this story I mean it's the

479

00:24:36,810 --> 00:24:35,500

story that just keeps firstly from your

480

00:24:39,149 --> 00:24:36,820

point of view and I know you've done

481

00:24:43,919 --> 00:24:39,159

some research on this what what the hell

482

00:24:46,230 --> 00:24:43,929

is area 51 so area 51 it's a it's a

483

00:24:49,680 --> 00:24:46,240

place about 80 miles northwest of Las

484

00:24:52,649 --> 00:24:49,690

Vegas the base itself is relatively

485

00:24:56,010 --> 00:24:52,659

small it's of course a Air Force Base

486

00:24:58,560 --> 00:24:56,020

among other things but of more interest

487

00:25:02,490 --> 00:24:58,570

in some ways it is the restricted area

488

00:25:05,250 --> 00:25:02,500

around it which is covers over 90,000

489

00:25:07,440 --> 00:25:05,260

acres so it's a pretty small base but a

490

00:25:11,340 --> 00:25:07,450

lot of a live train you're not allowed

491

00:25:14,039 --> 00:25:11,350

to go over and it began the 1950s is a

492

00:25:16,080 --> 00:25:14,049

place to test you to spy planes and it's

493

00:25:18,570 --> 00:25:16,090

mostly conspiracy theorists

494

00:25:21,360 --> 00:25:18,580

and of course the media who call it area

495

00:25:23,120 --> 00:25:21,370

51 that's that is that is not the

496

00:25:26,580 --> 00:25:23,130

official name the official name is

497

00:25:28,740 --> 00:25:26,590

Nevada test and training range all right

498

00:25:31,169 --> 00:25:28,750

part of the Edwards which is formally

499

00:25:33,930 --> 00:25:31,179

Nellis Air Force Base so if someone is

500

00:25:36,360 --> 00:25:33,940

is referring to area 51 then it's

501  
00:25:38,789 --> 00:25:36,370  
specifically because of the associations

502  
00:25:40,950 --> 00:25:38,799  
with you know alien hidden craft and

503  
00:25:42,870 --> 00:25:40,960  
things like that no did somebody make up

504  
00:25:46,019 --> 00:25:42,880  
this designation or is there some sort

505  
00:25:48,960 --> 00:25:46,029  
of map reference that refers to well

506  
00:25:53,070 --> 00:25:48,970  
that's actually a good question it said

507  
00:25:56,130 --> 00:25:53,080  
that the the idea behind the name from

508  
00:25:59,039 --> 00:25:56,140  
area 51 came from early Maps although

509  
00:26:01,860 --> 00:25:59,049  
it's not it's not really clear the

510  
00:26:08,519 --> 00:26:01,870  
airspace above area 51 is known as our

511  
00:26:10,049 --> 00:26:08,529  
48 Oh 8 at oh so so there's that that

512  
00:26:12,210 --> 00:26:10,059  
doesn't that doesn't exactly roll off

513  
00:26:14,340 --> 00:26:12,220

the tongue like area it does not it

514

00:26:17,330 --> 00:26:14,350

sounds much more exciting and sexy and

515

00:26:19,500 --> 00:26:17,340

mysterious to say area 51 yeah yeah

516

00:26:23,450 --> 00:26:19,510

basically speaking we're talking about a

517

00:26:26,460 --> 00:26:23,460

US government installation for testing

518

00:26:30,120 --> 00:26:26,470

various things and this is hardly

519

00:26:32,310 --> 00:26:30,130

shocking or surprising is it right this

520

00:26:35,010 --> 00:26:32,320

is this is this is what I found so so

521

00:26:37,560 --> 00:26:35,020

amusing about the area 51 story is that

522

00:26:39,779 --> 00:26:37,570

it is according to the Air Force and

523

00:26:41,820 --> 00:26:39,789

I'll just quote here briefly the

524

00:26:44,250 --> 00:26:41,830

facility's purpose is as follows quote

525

00:26:46,799 --> 00:26:44,260

the testing of technologies and systems

526

00:26:48,899 --> 00:26:46,809

training for operations critical to the

527

00:26:52,049 --> 00:26:48,909

effectiveness of US military forces and

528

00:26:56,010 --> 00:26:52,059

security of the United States yeah so

529

00:26:58,940 --> 00:26:56,020

it's a not so secret military base it is

530

00:27:02,610 --> 00:26:58,950

one of one of many military bases

531

00:27:03,930 --> 00:27:02,620

operated around the world by various

532

00:27:07,440 --> 00:27:03,940

countries there's nothing particularly

533

00:27:08,789 --> 00:27:07,450

unusual or weird about that that's you

534

00:27:11,519 --> 00:27:08,799

know if you're a government and you have

535

00:27:14,070 --> 00:27:11,529

military per ticket

536

00:27:17,250 --> 00:27:14,080

then you need a place to test those

537

00:27:19,049 --> 00:27:17,260

aircraft that doesn't mean you're hiding

538

00:27:21,330 --> 00:27:19,059

alien bodies it doesn't mean anything

539

00:27:23,820 --> 00:27:21,340

nefarious it just means that you need a

540

00:27:27,980 --> 00:27:23,830

place to test aircraft preferably away

541

00:27:29,880 --> 00:27:27,990

from places where say for example

542

00:27:31,500 --> 00:27:29,890

enemies might

543

00:27:33,510 --> 00:27:31,510

might want to videotape to know what

544

00:27:35,460 --> 00:27:33,520

you're developing oh so far been you're

545

00:27:38,610 --> 00:27:35,470

just making far too much sense I mean

546

00:27:40,950 --> 00:27:38,620

that okay so a large government the

547

00:27:43,530 --> 00:27:40,960

United States China Russia Australia who

548

00:27:46,830 --> 00:27:43,540

cares has an area within their borders

549

00:27:48,960 --> 00:27:46,840

for testing equipment testing things

550

00:27:50,400 --> 00:27:48,970

there are certain secrets of course like

551  
00:27:52,920 --> 00:27:50,410  
all countries you don't want your

552  
00:27:54,000 --> 00:27:52,930  
potential enemies knowing exactly what

553  
00:27:56,730 --> 00:27:54,010  
what you're up to

554  
00:28:00,510 --> 00:27:56,740  
so so far there's just it's gobsmacking

555  
00:28:03,600 --> 00:28:00,520  
ly boring in a way isn't it it really is

556  
00:28:05,760 --> 00:28:03,610  
you know what's another thing about era

557  
00:28:07,800 --> 00:28:05,770  
if you want is that because it has had

558  
00:28:10,020 --> 00:28:07,810  
this this sort of mythology grow around

559  
00:28:14,070 --> 00:28:10,030  
it associated with aliens and UFOs and

560  
00:28:16,530 --> 00:28:14,080  
what not doing largely in part to to the

561  
00:28:20,130 --> 00:28:16,540  
the stories of a man named Bob Lazar who

562  
00:28:22,050 --> 00:28:20,140  
in the 1980s went anonymously on a TV

563  
00:28:24,240 --> 00:28:22,060

show and of course when you go in on in

564

00:28:27,180 --> 00:28:24,250

the sea there's red flags right there

565

00:28:34,620 --> 00:28:27,190

but he went on a TV show in in

566

00:28:37,470 --> 00:28:34,630

silhouette codenamed Dennis yeah and he

567

00:28:40,680 --> 00:28:37,480

said was yeah he said it was there and

568

00:28:44,160 --> 00:28:40,690

he had all these stories of flying

569

00:28:48,300 --> 00:28:44,170

saucers and and 342 foot tall alien

570

00:28:52,020 --> 00:28:48,310

bodies and these really dramatic sort of

571

00:28:56,760 --> 00:28:52,030

heroic you know dodging security guards

572

00:28:58,410 --> 00:28:56,770

and finding out the truth and Lazar at

573

00:29:01,140 --> 00:28:58,420

this point is pretty well discredited I

574

00:29:04,050 --> 00:29:01,150

mean both by skeptics and believers have

575

00:29:05,460 --> 00:29:04,060

looked into his story and there's just

576

00:29:08,300 --> 00:29:05,470

nothing to it he lied about his

577

00:29:11,040 --> 00:29:08,310

background he claimed that he had

578

00:29:13,320 --> 00:29:11,050

degrees from MIT they never heard of him

579

00:29:16,200 --> 00:29:13,330

it's just so the whole thing fell apart

580

00:29:17,700 --> 00:29:16,210

but the story stuck so it just sounds

581

00:29:19,800 --> 00:29:17,710

like somebody was just after a little

582

00:29:23,220 --> 00:29:19,810

publicity or notoriety or the media

583

00:29:25,590 --> 00:29:23,230

thought they smelled a good story yeah

584

00:29:27,780 --> 00:29:25,600

and again it just it just stuck and so

585

00:29:32,130 --> 00:29:27,790

it's it's it has become incorporated

586

00:29:34,890 --> 00:29:32,140

into of course alien lore and also of

587

00:29:37,410 --> 00:29:34,900

course the area 51 being Nevada I'm here

588

00:29:41,820 --> 00:29:37,420

in New Mexico as you know yeah and here

589

00:29:43,530 --> 00:29:41,830

we have Roswell so there's lots of

590

00:29:46,320 --> 00:29:43,540

conspiracy theories about

591

00:29:50,700 --> 00:29:46,330

the the bodies that crashed at Roswell

592

00:29:55,080 --> 00:29:50,710

were taken to area 51 and who knows

593

00:29:59,280 --> 00:29:55,090

cut open or bread or yeah now it's

594

00:30:01,590 --> 00:29:59,290

interesting because as we know Roswell

595

00:30:04,140 --> 00:30:01,600

itself this quite an industry of UFOs

596

00:30:05,820 --> 00:30:04,150

even even stretching as far as

597

00:30:08,040 --> 00:30:05,830

Albuquerque because when I was in

598

00:30:10,650 --> 00:30:08,050

Albuquerque visiting you I could easily

599

00:30:12,900 --> 00:30:10,660

find UFO paraphernalia or UFO shot

600

00:30:13,640 --> 00:30:12,910

glasses and alien dice from the airport

601  
00:30:16,950 --> 00:30:13,650  
and whatnot

602  
00:30:19,380 --> 00:30:16,960  
t-shirts Roswell I'm sure is just

603  
00:30:21,960 --> 00:30:19,390  
teeming with the souvenirs and alien

604  
00:30:24,120 --> 00:30:21,970  
theme things but I note there's a little

605  
00:30:27,300 --> 00:30:24,130  
town called Rachel which is near area 51

606  
00:30:32,100 --> 00:30:27,310  
which also does a fabulous trade in

607  
00:30:34,530 --> 00:30:32,110  
aliens and UFOs absolutely and I've been

608  
00:30:36,960 --> 00:30:34,540  
there I've been again you can't go you

609  
00:30:39,840 --> 00:30:36,970  
can't actually go on to area 51 without

610  
00:30:41,490 --> 00:30:39,850  
without a government clearance you know

611  
00:30:43,560 --> 00:30:41,500  
there are there are armed guards there

612  
00:30:46,520 --> 00:30:43,570  
are buried

613  
00:30:49,680 --> 00:30:46,530

tracers there's cameras there's security

614

00:30:51,150 --> 00:30:49,690

fences in some places buried motion

615

00:30:53,490 --> 00:30:51,160

sensors things like that and there are

616

00:30:56,520 --> 00:30:53,500

signs that I believe I'm not skeptical

617

00:30:59,100 --> 00:30:56,530

of these this say that Security's you is

618

00:31:00,270 --> 00:30:59,110

authorized to use deadly force again

619

00:31:02,640 --> 00:31:00,280

they're not they're not being cute

620

00:31:05,310 --> 00:31:02,650

they're they're guarding potentially

621

00:31:07,140 --> 00:31:05,320

important national secrets so you know

622

00:31:09,720 --> 00:31:07,150

that's that's that's what they do there

623

00:31:13,170 --> 00:31:09,730

and if you know 1.2 million Yahoo's on

624

00:31:16,530 --> 00:31:13,180

Facebook decide they want to go and go

625

00:31:18,780 --> 00:31:16,540

in store marry 51 more power to you I

626

00:31:21,360 --> 00:31:18,790

want to see this yeah well the thing

627

00:31:23,490 --> 00:31:21,370

about this this whole storming of area

628

00:31:25,620 --> 00:31:23,500

51 and and all these people signing up

629

00:31:27,570 --> 00:31:25,630

our reporter may not made a good point

630

00:31:33,300 --> 00:31:27,580

that if a million people say they'll

631

00:31:36,920 --> 00:31:33,310

come to an event seven turn up and two

632

00:31:39,900 --> 00:31:36,930

of them elastic that's right and

633

00:31:42,600 --> 00:31:39,910

somebody made an interesting comment

634

00:31:44,070 --> 00:31:42,610

about the logistics saying you know you

635

00:31:46,080 --> 00:31:44,080

get a certain amount of people on that

636

00:31:48,180 --> 00:31:46,090

Highway anyway it turns into a traffic a

637

00:31:49,710 --> 00:31:48,190

traffic jam where are people going to

638

00:31:52,710 --> 00:31:49,720

stay what are they going to eat what are

639

00:31:54,780 --> 00:31:52,720

the bathroom facilities it's like a UFO

640

00:31:56,970 --> 00:31:54,790

version of the fire festival this fiasco

641

00:31:57,360 --> 00:31:56,980

waiting to happen a fiasco waiting to

642

00:31:59,460 --> 00:31:57,370

happen

643

00:32:02,460 --> 00:31:59,470

does turn into something of an absurdity

644

00:32:04,830 --> 00:32:02,470

but it sort of raises another broader

645

00:32:08,160 --> 00:32:04,840

issue about conspiracy theorist and and

646

00:32:09,810 --> 00:32:08,170

largely you know maybe we're all guilty

647

00:32:11,490 --> 00:32:09,820

of writing them off too quickly I was

648

00:32:14,850 --> 00:32:11,500

just saying what the how silly how can

649

00:32:17,160 --> 00:32:14,860

people believe this but potentially

650

00:32:19,470 --> 00:32:17,170

these bizarre wacky conspiracy theories

651  
00:32:21,990 --> 00:32:19,480  
can have real-world consequences

652  
00:32:23,970 --> 00:32:22,000  
especially if people get it in their

653  
00:32:27,030 --> 00:32:23,980  
heads that they can actually storm area

654  
00:32:29,150 --> 00:32:27,040  
51 yeah you're exactly right I mean and

655  
00:32:32,549 --> 00:32:29,160  
you know with with something like this

656  
00:32:34,080 --> 00:32:32,559  
you know it's it's hard to it's hard to

657  
00:32:36,540 --> 00:32:34,090  
really know how people are interpreting

658  
00:32:39,030 --> 00:32:36,550  
it I mean in most cases from what I can

659  
00:32:40,140 --> 00:32:39,040  
tell most people recognize it's a joke

660  
00:32:42,360 --> 00:32:40,150  
you know

661  
00:32:44,280 --> 00:32:42,370  
it's it's an Appa it's a perfect

662  
00:32:47,730 --> 00:32:44,290  
opportunity to make funny memes you know

663  
00:32:50,669 --> 00:32:47,740

aliens you know being freed by stoners

664

00:32:54,060 --> 00:32:50,679

yeah desert I mean it's perfect fodder

665

00:32:55,650 --> 00:32:54,070

for comedy but inevitably there will

666

00:32:58,080 --> 00:32:55,660

probably be a few people because you

667

00:33:02,700 --> 00:32:58,090

know there's nuts everywhere who like

668

00:33:04,320 --> 00:33:02,710

yeah man no this is real who knows well

669

00:33:08,130 --> 00:33:04,330

that's that's another interesting point

670

00:33:10,680 --> 00:33:08,140

because even if things put out as a joke

671

00:33:14,299 --> 00:33:10,690

I'm gonna be at Flat Earth or the moon

672

00:33:16,830 --> 00:33:14,309

landing hoax or area 51 in a huge

673

00:33:19,080 --> 00:33:16,840

population like the United States there

674

00:33:21,990 --> 00:33:19,090

will be a tiny percentage of people who

675

00:33:23,460 --> 00:33:22,000

take it very very seriously and because

676

00:33:25,169 --> 00:33:23,470

of the huge population that tiny

677

00:33:29,010 --> 00:33:25,179

percentage could run into thousands of

678

00:33:32,010 --> 00:33:29,020

people that's true and and I have to say

679

00:33:35,160 --> 00:33:32,020

that having dealt with some of these

680

00:33:38,910 --> 00:33:35,170

people some of the most really nasty

681

00:33:41,910 --> 00:33:38,920

aggressive vehement believers that I've

682

00:33:44,610 --> 00:33:41,920

come across are our conspiracy theorists

683

00:33:47,490 --> 00:33:44,620

and in particular UFO folks and part of

684

00:33:49,340 --> 00:33:47,500

the idea behind it is they're angry in

685

00:33:52,350 --> 00:33:49,350

many cases they sincerely believe that

686

00:33:54,390 --> 00:33:52,360

you are hiding the truth and you're you

687

00:33:57,990 --> 00:33:54,400

as a skeptic are sort of towing the

688

00:34:00,270 --> 00:33:58,000

government's line how dare you you'll

689

00:34:02,610 --> 00:34:00,280

help shield the knowledge that humanity

690

00:34:04,440 --> 00:34:02,620

is due of regarding you know alien

691

00:34:06,930 --> 00:34:04,450

contact or bodies we're outs and so they

692

00:34:08,580 --> 00:34:06,940

they believe that their causes just and

693

00:34:10,570 --> 00:34:08,590

they they they sincerely believe that

694

00:34:11,800 --> 00:34:10,580

that you know there's

695

00:34:13,300 --> 00:34:11,810

these aliens and bodies in this

696

00:34:16,600 --> 00:34:13,310

technology that there's all this be

697

00:34:18,150 --> 00:34:16,610

cover up and they get very angry when

698

00:34:20,860 --> 00:34:18,160

they when they think that you are

699

00:34:22,930 --> 00:34:20,870

intentionally keeping information that

700

00:34:25,300 --> 00:34:22,940

they have a right to they get really

701  
00:34:27,880 --> 00:34:25,310  
really aggressive about that sometimes

702  
00:34:30,400 --> 00:34:27,890  
yes I've seen examples of that online in

703  
00:34:32,740 --> 00:34:30,410  
his various videos which are pure vile

704  
00:34:35,020 --> 00:34:32,750  
and vindictive and nasty from the these

705  
00:34:37,660 --> 00:34:35,030  
sort of people it's it's a bit of a

706  
00:34:40,150 --> 00:34:37,670  
worry and I hope if people some people

707  
00:34:43,150 --> 00:34:40,160  
do turn up on mass I hope that the

708  
00:34:46,000 --> 00:34:43,160  
authorities can take a very broad view

709  
00:34:48,780 --> 00:34:46,010  
of it and and you know see it in context

710  
00:34:51,880 --> 00:34:48,790  
of maybe a bit of fun or maybe some

711  
00:34:54,880 --> 00:34:51,890  
misguided people but you know we'll sit

712  
00:34:56,770 --> 00:34:54,890  
back and see what happens now Ben as the

713  
00:34:58,690 --> 00:34:56,780

listeners know this a lot of this

714

00:35:03,610 --> 00:34:58,700

episode is dedicated to the moon

715

00:35:06,280 --> 00:35:03,620

landings and I I was just just old

716

00:35:07,690 --> 00:35:06,290

enough to have seen them for myself when

717

00:35:09,940 --> 00:35:07,700

they were broadcast I wasn't on the moon

718

00:35:15,130 --> 00:35:09,950

I saw the monster on the TV with a big

719

00:35:17,560 --> 00:35:15,140

broadcast I did I had a remote TV camera

720

00:35:20,140 --> 00:35:17,570

up there it was very handy and as

721

00:35:23,200 --> 00:35:20,150

Australians love to say a lot of the

722

00:35:25,150 --> 00:35:23,210

images were bounced via Australia's for

723

00:35:26,830 --> 00:35:25,160

the rest of the world to to see the moon

724

00:35:28,240 --> 00:35:26,840

landings there we are that's right there

725

00:35:30,280 --> 00:35:28,250

was a there was a film called the dish

726

00:35:31,960 --> 00:35:30,290

with your choice and if people haven't

727

00:35:34,000 --> 00:35:31,970

seen that the movie called the dish it's

728

00:35:36,510 --> 00:35:34,010

all about Australia's role in the moon

729

00:35:40,030 --> 00:35:36,520

landing so it's quite fun it's a very

730

00:35:43,210 --> 00:35:40,040

light-hearted but very interesting funny

731

00:35:47,260 --> 00:35:43,220

movie but yeah someone like you growing

732

00:35:49,150 --> 00:35:47,270

up a few years behind me I guess you had

733

00:35:51,100 --> 00:35:49,160

the same sort of thing you know you as a

734

00:35:53,860 --> 00:35:51,110

little kid you would have seen images of

735

00:35:57,130 --> 00:35:53,870

the astronauts it's part of our history

736

00:35:58,930 --> 00:35:57,140

and then all of a sudden it seems around

737

00:36:00,160 --> 00:35:58,940

the year 2000 there was these people

738

00:36:03,120 --> 00:36:00,170

saying that we never went to the moon

739

00:36:05,650 --> 00:36:03,130

which took me completely by surprise

740

00:36:08,530 --> 00:36:05,660

yeah I felt the same way I mean it was

741

00:36:10,870 --> 00:36:08,540

it was so odd to me I mean I grew up in

742

00:36:13,720 --> 00:36:10,880

a family that appreciated science and

743

00:36:16,270 --> 00:36:13,730

literacy and critical thinking and these

744

00:36:17,620 --> 00:36:16,280

sort of things so we were we weren't you

745

00:36:19,750 --> 00:36:17,630

know astronomy buffs or anything it's

746

00:36:21,070 --> 00:36:19,760

not like you know we would gather in the

747

00:36:22,750 --> 00:36:21,080

backyard with a telescope or anything

748

00:36:24,250 --> 00:36:22,760

but I I certainly had a real

749

00:36:27,900 --> 00:36:24,260

appreciation

750

00:36:30,400 --> 00:36:27,910

and those sorts of treatments

751  
00:36:33,640 --> 00:36:30,410  
particulars and it just seemed like such

752  
00:36:35,200 --> 00:36:33,650  
a beautiful moment that all of humanity

753  
00:36:39,609 --> 00:36:35,210  
would be proud of and it was just

754  
00:36:41,740 --> 00:36:39,619  
bizarre to me to later see people coming

755  
00:36:43,720 --> 00:36:41,750  
up with these stories about how how we

756  
00:36:46,510 --> 00:36:43,730  
didn't the whole thing is a hoax and

757  
00:36:48,700 --> 00:36:46,520  
it's faked and and it was just it just

758  
00:36:51,280 --> 00:36:48,710  
seemed not only a betrayal of the

759  
00:36:53,470 --> 00:36:51,290  
genuinely amazing technological

760  
00:36:57,040 --> 00:36:53,480  
achievement that it was but just sort of

761  
00:36:59,170 --> 00:36:57,050  
a backhanded snide well you know you

762  
00:37:00,460 --> 00:36:59,180  
know judges I know better and yeah we

763  
00:37:02,650 --> 00:37:00,470

just all right I just find it really

764

00:37:05,050 --> 00:37:02,660

just taste well I've met quite a few

765

00:37:06,910 --> 00:37:05,060

people over the years who are of the

766

00:37:09,190 --> 00:37:06,920

opinion the moon landings were hoaxed

767

00:37:10,990 --> 00:37:09,200

but they have vehement about it they're

768

00:37:14,020 --> 00:37:11,000

passionate about it they're they're

769

00:37:16,330 --> 00:37:14,030

almost bordering on angry about it

770

00:37:18,070 --> 00:37:16,340

because they've seen some video on

771

00:37:20,830 --> 00:37:18,080

YouTube or they remember watching the

772

00:37:23,380 --> 00:37:20,840

conspiracy theory show put out by Fox

773

00:37:24,940 --> 00:37:23,390

and to them suddenly it all makes sense

774

00:37:31,030 --> 00:37:24,950

and of course the moon landings were

775

00:37:33,580 --> 00:37:31,040

faked and I've spent time with them and

776

00:37:34,900 --> 00:37:33,590

point by point when they've said what

777

00:37:36,550 --> 00:37:34,910

about this what about this and I said

778

00:37:38,020 --> 00:37:36,560

well that's because of this is happening

779

00:37:40,960 --> 00:37:38,030

in the stars and because of this reason

780

00:37:42,790 --> 00:37:40,970

when we go on and they're still not

781

00:37:45,430 --> 00:37:42,800

convinced it's just it's really nothing

782

00:37:47,650 --> 00:37:45,440

will convince some people it's it's an

783

00:37:51,700 --> 00:37:47,660

adventure a bizarre adventure in the

784

00:37:53,970 --> 00:37:51,710

psychology it is and you know I had the

785

00:37:57,099 --> 00:37:53,980

same experience with flat-earthers

786

00:37:58,780 --> 00:37:57,109

here and here in Albuquerque a few

787

00:38:01,060 --> 00:37:58,790

months back for our local skeptics group

788

00:38:02,710 --> 00:38:01,070

we had a a genuine flat earther it was

789

00:38:05,170 --> 00:38:02,720

apparently not trawling he seemed very

790

00:38:07,240 --> 00:38:05,180

sincere about it and it just fascinate

791

00:38:08,650 --> 00:38:07,250

him speak it was a skeptic group but

792

00:38:10,540 --> 00:38:08,660

everyone was very respectful and this

793

00:38:13,510 --> 00:38:10,550

and that and we let him talk for an hour

794

00:38:15,970 --> 00:38:13,520

and change but it was just sort of like

795

00:38:18,190 --> 00:38:15,980

all the points that he made up you know

796

00:38:21,160 --> 00:38:18,200

we would politely you know discuss it

797

00:38:22,480 --> 00:38:21,170

and refute it and he just would not he

798

00:38:24,990 --> 00:38:22,490

wouldn't budge it's just like you know

799

00:38:27,910 --> 00:38:25,000

well you know that's just your science

800

00:38:30,580 --> 00:38:27,920

as opposed to your science who's whose

801  
00:38:33,190 --> 00:38:30,590  
science are we implementing here there

802  
00:38:35,500 --> 00:38:33,200  
was just bizarre it is it is and it's

803  
00:38:37,660 --> 00:38:35,510  
and skeptics can fall into the trap of

804  
00:38:37,990 --> 00:38:37,670  
getting very short with these people or

805  
00:38:47,200 --> 00:38:38,000  
in

806  
00:38:48,340 --> 00:38:47,210  
a while it's alright it's alright these

807  
00:38:50,530 --> 00:38:48,350  
people are going to keep on believing

808  
00:38:53,790 --> 00:38:50,540  
this you've got better things to do with

809  
00:38:56,230 --> 00:38:53,800  
your time you educate other people or

810  
00:38:58,210 --> 00:38:56,240  
whatever it is or play tiddlywinks or

811  
00:39:00,310 --> 00:38:58,220  
something there is a point there is a

812  
00:39:02,140 --> 00:39:00,320  
point where you just have to say thank

813  
00:39:04,480 --> 00:39:02,150

you for your time it's yet it's

814

00:39:06,010 --> 00:39:04,490

diminishing returns and you know and you

815

00:39:08,080 --> 00:39:06,020

and I have both encountered that over

816

00:39:10,210 --> 00:39:08,090

the of the long time we've been doing it

817

00:39:12,550 --> 00:39:10,220

at first it was you know I would say

818

00:39:15,610 --> 00:39:12,560

maybe 10 12 years ago I would go ahead

819

00:39:17,530 --> 00:39:15,620

and engage until until I was you know

820

00:39:19,660 --> 00:39:17,540

was trying to get them to to to

821

00:39:20,860 --> 00:39:19,670

recognize what I was saying and finally

822

00:39:22,660 --> 00:39:20,870

I just realized like you said I mean

823

00:39:24,820 --> 00:39:22,670

this is not I don't care I'm gonna sleep

824

00:39:26,950 --> 00:39:24,830

fine either way tonight so whether this

825

00:39:29,230 --> 00:39:26,960

person gets it or not or they recognize

826

00:39:31,420 --> 00:39:29,240

it you know I can only do so much

827

00:39:33,340 --> 00:39:31,430

yeah and you could just you just got to

828

00:39:34,840 --> 00:39:33,350

walk away just like that cartoon I can't

829

00:39:39,760 --> 00:39:34,850

go to bed somebody is wrong on the

830

00:39:42,160 --> 00:39:39,770

Internet well Ben Radford thank you very

831

00:39:46,150 --> 00:39:42,170

much for your insights about area 51

832

00:39:48,310 --> 00:39:46,160

maybe one day you and I can visit do a

833

00:39:50,380 --> 00:39:48,320

big trip we can start off in Roswell and

834

00:39:53,590 --> 00:39:50,390

then follow the alien trail to reach or

835

00:39:54,400 --> 00:39:53,600

near area 51 and eat alien burgers and

836

00:39:56,320 --> 00:39:54,410

have a good time

837

00:39:57,700 --> 00:39:56,330

that will be delightful I would look

838

00:40:00,060 --> 00:39:57,710

forward to it me too

839

00:40:02,440 --> 00:40:00,070

but for now Ben Radford all the way from

840

00:40:04,450 --> 00:40:02,450

Albuquerque New Mexico and don't forget

841

00:40:06,010 --> 00:40:04,460

folks to listen to Ben's podcast

842

00:40:09,010 --> 00:40:06,020

squaring the strange he does with

843

00:40:11,650 --> 00:40:09,020

Pasquale and Celestia a great podcast I

844

00:40:13,960 --> 00:40:11,660

enjoy listening to it every couple of

845

00:40:24,380 --> 00:40:13,970

weeks but for now Ben Radford thank you

846

00:40:29,509 --> 00:40:27,380

hey fellow skeptics in Medford here with

847

00:40:31,460 --> 00:40:29,519

Celeste reward your friendly host of

848

00:40:33,410 --> 00:40:31,470

starting the strange a podcast that

849

00:40:35,809 --> 00:40:33,420

looks at topics ranging from legends

850

00:40:38,029 --> 00:40:35,819

panics and cryptids to 80 myths

851  
00:40:40,099 --> 00:40:38,039  
psychology and folklore breaking things

852  
00:40:42,200 --> 00:40:40,109  
down and picking things apart as we

853  
00:40:44,509 --> 00:40:42,210  
skeptics do we bring a few different

854  
00:40:46,970 --> 00:40:44,519  
perspectives on things Celestia for

855  
00:40:48,079 --> 00:40:46,980  
example is a witty cartoonist and Ben is

856  
00:40:50,329 --> 00:40:48,089  
a brilliant writer and longtime

857  
00:40:52,729 --> 00:40:50,339  
skeptical investigator we don't always

858  
00:40:54,799 --> 00:40:52,739  
agree but we have fun trying and we

859  
00:40:57,650 --> 00:40:54,809  
learn new things join us for new topics

860  
00:40:59,930 --> 00:40:57,660  
every week or two or browse our backlog

861  
00:41:02,509 --> 00:40:59,940  
of evergreen episodes available on

862  
00:41:04,970 --> 00:41:02,519  
iTunes and all your podcast feeding

863  
00:41:10,740 --> 00:41:04,980

troughs squaring the strange take care

864

00:41:43,349 --> 00:41:34,080

I think we need to think here susan

865

00:41:46,230 --> 00:41:43,359

gerbic hello skeptic zone listeners this

866

00:41:47,970 --> 00:41:46,240

is susan gerbic in Salinas California I

867

00:41:49,440 --> 00:41:47,980

have a real treat for you I have a

868

00:41:52,230 --> 00:41:49,450

couple really great friends that are

869

00:41:55,920 --> 00:41:52,240

here from Brazil that I met at saikhan

870

00:41:57,300 --> 00:41:55,930

in 2018 I wanted to share with you some

871

00:42:00,720 --> 00:41:57,310

conversations we're having about what

872

00:42:01,890 --> 00:42:00,730

they're doing in San Paulo Brazil and a

873

00:42:03,240 --> 00:42:01,900

lot of the different things that are

874

00:42:06,300 --> 00:42:03,250

happening there because I don't think

875

00:42:08,490 --> 00:42:06,310

they were quite aware of the the

876

00:42:11,250 --> 00:42:08,500

craziness is happening with alternative

877

00:42:13,530 --> 00:42:11,260

medicine there hi everyone thanks Susan

878

00:42:15,960 --> 00:42:13,540

for heaviness I'm Natalia Pasternak from

879

00:42:18,570 --> 00:42:15,970

Brazil I'm a microbiologist and I'm also

880

00:42:21,690 --> 00:42:18,580

trying to start a skeptic movement in

881

00:42:23,579 --> 00:42:21,700

Brazil hello this is Carlos Carlos RC

882

00:42:26,970 --> 00:42:23,589

I'm a Brazilian journalist and and

883

00:42:29,579 --> 00:42:26,980

writer and as Natalia said I'm working

884

00:42:32,640 --> 00:42:29,589

for a few other friends to try and build

885

00:42:35,400 --> 00:42:32,650

a skeptical organization and movement

886

00:42:40,220 --> 00:42:35,410

they explained to me that science is

887

00:42:42,750 --> 00:42:40,230

really popular in Brazil but not

888

00:42:44,579 --> 00:42:42,760

skepticism and not critical thinking and

889

00:42:48,450 --> 00:42:44,589

their organization is really going to be

890

00:42:50,550 --> 00:42:48,460

focusing mostly on medical quackery what

891

00:42:53,490 --> 00:42:50,560

we call Kim complementary alternative

892

00:42:56,310 --> 00:42:53,500

medicine from what I understand the

893

00:43:00,210 --> 00:42:56,320

government has kind of sponsored a lot

894

00:43:01,410 --> 00:43:00,220

of alternative medicines and some of

895

00:43:03,150 --> 00:43:01,420

these they tell me about I've never

896

00:43:04,640 --> 00:43:03,160

heard of them some of them are the

897

00:43:08,130 --> 00:43:04,650

common ones were used to like homeopathy

898

00:43:09,510 --> 00:43:08,140

Reiki acupuncture chiropractic but

899

00:43:12,300 --> 00:43:09,520

there's some other ones in here that are

900

00:43:14,400 --> 00:43:12,310

just fascinating they're called like

901  
00:43:16,770 --> 00:43:14,410  
there's one called Geo therapy which is

902  
00:43:18,510 --> 00:43:16,780  
where you put people in mud and then

903  
00:43:22,050 --> 00:43:18,520  
there's another one that is a remedy for

904  
00:43:23,790 --> 00:43:22,060  
flowers so we launched these digital

905  
00:43:24,450 --> 00:43:23,800  
last November it's called

906  
00:43:27,359 --> 00:43:24,460  
Institute

907  
00:43:30,240 --> 00:43:27,369  
question of signs and the reason we do

908  
00:43:31,920 --> 00:43:30,250  
that is because we have all been walking

909  
00:43:34,320 --> 00:43:31,930  
with science communication for quite

910  
00:43:37,530 --> 00:43:34,330  
some time now but science communication

911  
00:43:41,460 --> 00:43:37,540  
in Brazil is very focused on the beauty

912  
00:43:43,829 --> 00:43:41,470  
of science and why science is important

913  
00:43:46,349 --> 00:43:43,839

and please give us money so that we can

914

00:43:48,839 --> 00:43:46,359

do scientific research and although

915

00:43:51,720 --> 00:43:48,849

that's very important in this kind of

916

00:43:55,050 --> 00:43:51,730

work has to be done no one was looking

917

00:43:57,450 --> 00:43:55,060

at the other side of how science works

918

00:43:59,910 --> 00:43:57,460

how important scientific matter is

919

00:44:03,240 --> 00:43:59,920

critical thinking and skepticism and

920

00:44:04,980 --> 00:44:03,250

this thing's also keep science going and

921

00:44:07,260 --> 00:44:04,990

more than keep it going they guarantee

922

00:44:10,020 --> 00:44:07,270

that it's solid and it's based on

923

00:44:11,670 --> 00:44:10,030

evidence that's why we started Institute

924

00:44:13,980 --> 00:44:11,680

because no one was looking in that

925

00:44:16,620 --> 00:44:13,990

direction and and we really wanted to

926

00:44:18,510 --> 00:44:16,630

tackle that because we have lots of

927

00:44:20,339 --> 00:44:18,520

pseudoscience going on in Brazil and

928

00:44:22,710 --> 00:44:20,349

people have the impression that they are

929

00:44:24,570 --> 00:44:22,720

science of course they're not but no one

930

00:44:26,640 --> 00:44:24,580

is going through the trouble of

931

00:44:29,730 --> 00:44:26,650

explaining to the population what

932

00:44:32,160 --> 00:44:29,740

science is and what it isn't and that's

933

00:44:34,710 --> 00:44:32,170

what we aim to do with the Institute and

934

00:44:37,530 --> 00:44:34,720

we are very focused in the alternative

935

00:44:40,980 --> 00:44:37,540

medicine practices now because we have

936

00:44:43,320 --> 00:44:40,990

29 practices and they call it integrity

937

00:44:46,050 --> 00:44:43,330

of and complementary practices but it's

938

00:44:48,570 --> 00:44:46,060

all just just pseudoscience and we have

939

00:44:51,030 --> 00:44:48,580

29 of those in our public healthcare

940

00:44:52,980 --> 00:44:51,040

system so it's public it's paid for with

941

00:44:54,599 --> 00:44:52,990

taxpayers money so one of the things

942

00:44:56,970 --> 00:44:54,609

that you guys have recently done is you

943

00:44:58,320 --> 00:44:56,980

commissioned a survey because you kind

944

00:45:02,250 --> 00:44:58,330

of wanted to see what is the state of

945

00:45:04,980 --> 00:45:02,260

understanding in Brazil of pseudoscience

946

00:45:08,040 --> 00:45:04,990

especially focused on them the quackery

947

00:45:10,170 --> 00:45:08,050

the medical area and I think that the

948

00:45:12,660 --> 00:45:10,180

results that you received on that we're

949

00:45:13,710 --> 00:45:12,670

really eye-opening so Carlos do you

950

00:45:15,329 --> 00:45:13,720

think you could tell us a little bit

951  
00:45:17,370 --> 00:45:15,339  
about that survey what your results were

952  
00:45:20,599 --> 00:45:17,380  
in which you found out well we did a

953  
00:45:23,099 --> 00:45:20,609  
survey we asked people of questions but

954  
00:45:25,800 --> 00:45:23,109  
basically the most fundamental questions

955  
00:45:27,960 --> 00:45:25,810  
for is what do you think the government

956  
00:45:30,839 --> 00:45:27,970  
should offer in the public health care

957  
00:45:34,109 --> 00:45:30,849  
system and what do you want or do you

958  
00:45:36,060 --> 00:45:34,119  
use when you have health problems the

959  
00:45:36,990 --> 00:45:36,070  
first answer is that people wanted their

960  
00:45:39,720 --> 00:45:37,000  
the government to

961  
00:45:42,240 --> 00:45:39,730  
science and evidence-based treatments

962  
00:45:45,120 --> 00:45:42,250  
but when we ask them what kind of

963  
00:45:47,670 --> 00:45:45,130

treatments they think our science mazed

964

00:45:49,680 --> 00:45:47,680

they were all over the map but people

965

00:45:52,830 --> 00:45:49,690

wanted on the apogee and the co

966

00:45:54,680 --> 00:45:52,840

punctured and all kinds of stuff and the

967

00:45:57,270 --> 00:45:54,690

healthcare system because they think

968

00:46:00,180 --> 00:45:57,280

they like it this stuff and they think

969

00:46:03,240 --> 00:46:00,190

it's science made so I guess that the

970

00:46:06,690 --> 00:46:03,250

main finding of the research the the

971

00:46:10,500 --> 00:46:06,700

take-home message is that people really

972

00:46:12,720 --> 00:46:10,510

don't know what is science-based or what

973

00:46:16,140 --> 00:46:12,730

makes something mean sighs may than

974

00:46:18,540 --> 00:46:16,150

something not be science-based that's no

975

00:46:21,000 --> 00:46:18,550

small task I don't even know where you

976

00:46:23,100 --> 00:46:21,010

would end up starting so what is it that

977

00:46:25,200 --> 00:46:23,110

you guys are trying to do besides I know

978

00:46:27,030 --> 00:46:25,210

you just started it's only been a year

979

00:46:29,010 --> 00:46:27,040

and one of the first things you did is

980

00:46:30,630 --> 00:46:29,020

you came to psych on because you wanted

981

00:46:32,340 --> 00:46:30,640

to meet new people and you wanted to

982

00:46:35,250 --> 00:46:32,350

kind of find out what's going on other

983

00:46:37,320 --> 00:46:35,260

people are doing Natalia and Carlos and

984

00:46:40,800 --> 00:46:37,330

I were up late last night talking about

985

00:46:42,180 --> 00:46:40,810

this as we do and one of the things we

986

00:46:44,160 --> 00:46:42,190

really discussed it was it is so

987

00:46:47,100 --> 00:46:44,170

important that we should know each other

988

00:46:48,510 --> 00:46:47,110

in internationally I mean whether or not

989

00:46:50,250 --> 00:46:48,520

we're going to be able to form some kind

990

00:46:51,780 --> 00:46:50,260

of organization that's international I

991

00:46:53,550 --> 00:46:51,790

don't personally don't think we're there

992

00:46:54,870 --> 00:46:53,560

yet but I do think that we should at

993

00:46:57,150 --> 00:46:54,880

least know each other and I was

994

00:46:59,400 --> 00:46:57,160

explaining to them about podcasting and

995

00:47:00,840 --> 00:46:59,410

how important podcasting is and it

996

00:47:03,600 --> 00:47:00,850

reaches so many people and it's so

997

00:47:05,520 --> 00:47:03,610

inexpensive I'm personally hoping we're

998

00:47:08,310 --> 00:47:05,530

gonna find a lot of Portuguese speaking

999

00:47:10,800 --> 00:47:08,320

people who will launch podcasts that

1000

00:47:12,480 --> 00:47:10,810

will focus on science but really with

1001  
00:47:14,940 --> 00:47:12,490  
the skepticism and critical thinking

1002  
00:47:16,620 --> 00:47:14,950  
been where the harm is especially

1003  
00:47:19,440 --> 00:47:16,630  
getting into this alternative medicine

1004  
00:47:21,750 --> 00:47:19,450  
yeah the thing that we're trying to do

1005  
00:47:24,840 --> 00:47:21,760  
with the Institute is try to take her to

1006  
00:47:27,150 --> 00:47:24,850  
different things so on one hand we want

1007  
00:47:29,310 --> 00:47:27,160  
to provide solid information to the

1008  
00:47:30,720 --> 00:47:29,320  
population to the public in an

1009  
00:47:33,450 --> 00:47:30,730  
accessible language that they can

1010  
00:47:36,360 --> 00:47:33,460  
understand without scientific jargon so

1011  
00:47:39,150 --> 00:47:36,370  
we started magazine very similar to

1012  
00:47:41,730 --> 00:47:39,160  
skeptical inquirer on the other hand we

1013  
00:47:43,440 --> 00:47:41,740

have to talk to the decision-makers so

1014

00:47:45,720 --> 00:47:43,450

we have to talk to politicians we have

1015

00:47:48,060 --> 00:47:45,730

to talk to the government and then we're

1016

00:47:50,550 --> 00:47:48,070

trying to really advocate for science

1017

00:47:53,430 --> 00:47:50,560

and so we're trying to bring

1018

00:47:56,060 --> 00:47:53,440

into the Parliament in Brazil into the

1019

00:47:59,520 --> 00:47:56,070

Congress and try to talk to as many

1020

00:48:03,210 --> 00:47:59,530

congressmen and Senators as we as we can

1021

00:48:05,850 --> 00:48:03,220

so the magazine is an attempt to know if

1022

00:48:08,910 --> 00:48:05,860

you do research on this stuff and if you

1023

00:48:12,090 --> 00:48:08,920

dig just a little deeper you will find

1024

00:48:14,430 --> 00:48:12,100

our articles just explaining to you that

1025

00:48:17,550 --> 00:48:14,440

it's not that collagen pills won't

1026  
00:48:19,440 --> 00:48:17,560  
prevent you from aging and things like

1027  
00:48:23,190 --> 00:48:19,450  
that so one of the things I wanted to

1028  
00:48:27,060 --> 00:48:23,200  
mention is that your magazine is not

1029  
00:48:28,860 --> 00:48:27,070  
print it's online and it's free and it's

1030  
00:48:31,200 --> 00:48:28,870  
free for people it's in Portuguese and

1031  
00:48:32,940 --> 00:48:31,210  
it has an English translation as well I

1032  
00:48:35,220 --> 00:48:32,950  
want to make sure that everybody knows

1033  
00:48:37,590 --> 00:48:35,230  
how to find that and how they can reach

1034  
00:48:39,330 --> 00:48:37,600  
out to you guys if they want to be at

1035  
00:48:42,360 --> 00:48:39,340  
help if there is anybody in San Paulo

1036  
00:48:44,070 --> 00:48:42,370  
listening right now or more Portuguese

1037  
00:48:46,770 --> 00:48:44,080  
speakers who would love to work on a

1038  
00:48:48,300 --> 00:48:46,780

podcast let's get this taken care of and

1039

00:48:50,550 --> 00:48:48,310

get some conferences down there and get

1040

00:48:52,650 --> 00:48:50,560

people active and excited and and start

1041

00:48:55,440 --> 00:48:52,660

building the community how would they go

1042

00:48:57,900 --> 00:48:55,450

about finding you guys okay so you can

1043

00:48:59,730 --> 00:48:57,910

find us on Facebook Institute question

1044

00:49:03,060 --> 00:48:59,740

of Science Institute to Keystone de

1045

00:49:05,340 --> 00:49:03,070

ciencia in Portuguese and we go by the

1046

00:49:08,460 --> 00:49:05,350

same name in our website Twitter account

1047

00:49:11,400 --> 00:49:08,470

and Instagram account right well as if

1048

00:49:14,370 --> 00:49:11,410

you are at a park you speak here just

1049

00:49:17,370 --> 00:49:14,380

right in your browser tab TV stock is

1050

00:49:19,920 --> 00:49:17,380

down this en japon compound to be and

1051

00:49:26,120 --> 00:49:19,930

you will be there if you want up a

1052

00:49:29,400 --> 00:49:26,130

quicker access is iqc dot org dot BR and

1053

00:49:32,070 --> 00:49:29,410

the the magazine has a two foreign

1054

00:49:35,280 --> 00:49:32,080

languages steps when in English one in

1055

00:49:37,260 --> 00:49:35,290

Spanish most of the material in this in

1056

00:49:40,020 --> 00:49:37,270

English and in Spanish are our

1057

00:49:42,480 --> 00:49:40,030

editorials or opinion pieces there are a

1058

00:49:45,630 --> 00:49:42,490

few articles and more journalistic

1059

00:49:47,820 --> 00:49:45,640

pieces in each of them in the English

1060

00:49:50,370 --> 00:49:47,830

section there's my an English

1061

00:49:53,130 --> 00:49:50,380

translation of the news story I wrote

1062

00:49:56,220 --> 00:49:53,140

about our power survey so you can have

1063

00:49:58,080 --> 00:49:56,230

more details there well thank you guys

1064

00:50:00,030 --> 00:49:58,090

for listening thank you guys for

1065

00:50:01,650 --> 00:50:00,040

visiting I really appreciate you came

1066

00:50:02,680 --> 00:50:01,660

all the way down they had to rent a car

1067

00:50:04,450 --> 00:50:02,690

in San Francisco

1068

00:50:07,030 --> 00:50:04,460

drive a couple hours to come to my house

1069

00:50:08,620 --> 00:50:07,040

and stay the night I appreciate that you

1070

00:50:12,640 --> 00:50:08,630

guys took the time out to come and stay

1071

00:50:15,190 --> 00:50:12,650

with us and we had some long talks Thank

1072

00:50:18,370 --> 00:50:15,200

You skeptic zone listeners I will be in

1073

00:50:21,819 --> 00:50:18,380

Australia in December so please come out

1074

00:50:24,670 --> 00:50:21,829

and a change skeptic on Australia in

1075

00:50:36,440 --> 00:50:24,680

Melbourne in December thanks all

1076

00:50:39,960 --> 00:50:36,450

[Music]

1077

00:50:42,210 --> 00:50:39,970

skeptic on 2019 the Australian skeptics

1078

00:50:47,880 --> 00:50:42,220

National Convention will be in Melbourne

1079

00:50:49,499 --> 00:50:47,890

from the 6th to the 8th of December we

1080

00:50:51,900 --> 00:50:49,509

have an impressive speaker line-up

1081

00:50:54,779 --> 00:50:51,910

including the skeptics guide to the

1082

00:50:58,289 --> 00:50:54,789

universe dr. Steve novella Jay novella

1083

00:51:01,319 --> 00:50:58,299

Cara Santa Maria Bob novella and Evan

1084

00:51:04,039 --> 00:51:01,329

Bernstein also susan gerbic from

1085

00:51:06,390 --> 00:51:04,049

guerrilla skepticism on wikipedia and

1086

00:51:10,170 --> 00:51:06,400

many other international and local

1087

00:51:13,470 --> 00:51:10,180

guests including Joe Thorley the host of

1088

00:51:16,700 --> 00:51:13,480

zealot a podcast about cults and an

1089

00:51:19,349 --> 00:51:16,710

author of a book by the same name

1090

00:51:21,900 --> 00:51:19,359

skeptic God includes a trivia night on

1091

00:51:26,130 --> 00:51:21,910

Thursday the 5th of December to test

1092

00:51:28,200 --> 00:51:26,140

your skeptical knowledge for more

1093

00:51:30,680 --> 00:51:28,210

information about the event the speakers

1094

00:51:32,130 --> 00:51:30,690

and how to buy tickets visit skeptic

1095

00:51:35,069 --> 00:51:32,140

on.org

1096

00:51:35,940 --> 00:51:35,079

au or follow the link in this week's

1097

00:51:48,729 --> 00:51:35,950

show notes

1098

00:51:54,140 --> 00:51:51,169

thank you for listening to the skeptic

1099

00:51:58,219 --> 00:51:54,150

zone and thank you to all the Apollo

1100

00:51:59,839 --> 00:51:58,229

astronauts for for quite a ride quite a

1101

00:52:03,279 --> 00:51:59,849

ride fifty years ago

1102

00:52:07,189 --> 00:52:03,289

and indeed extending right back to

1103

00:52:10,549 --> 00:52:07,199

Apollo one the way we remember and white

1104

00:52:12,799 --> 00:52:10,559

Roger Chaffee and Gus Grissom who sadly

1105

00:52:17,209 --> 00:52:12,809

perished on the launch pad during

1106

00:52:19,309 --> 00:52:17,219

testing for the Apollo missions now

1107

00:52:21,319 --> 00:52:19,319

later next month later in August if

1108

00:52:24,799 --> 00:52:21,329

you're coming to Dragon Con the Dragon

1109

00:52:27,019 --> 00:52:24,809

Con convention con con Convention the

1110

00:52:28,609 --> 00:52:27,029

dragon Convention Dragon Con in Atlanta

1111

00:52:30,979 --> 00:52:28,619

Georgia I'll be taking part in the

1112

00:52:32,900 --> 00:52:30,989

skeptic track there with my old friends

1113

00:52:36,829 --> 00:52:32,910

Derek Colin do know from skepticism

1114

00:52:39,079 --> 00:52:36,839

and dr. Angie Matki and lots of other

1115

00:52:41,179 --> 00:52:39,089

people there at Dragon Con including the

1116

00:52:42,469 --> 00:52:41,189

skeptics guide to the universe also

1117

00:52:44,449 --> 00:52:42,479

later on this year we have the New

1118

00:52:46,069 --> 00:52:44,459

Zealand skeptics National Convention I

1119

00:52:48,140 --> 00:52:46,079

hope to bring you some more information

1120

00:52:50,179 --> 00:52:48,150

about that before long and not

1121

00:52:52,249 --> 00:52:50,189

forgetting then in December the

1122

00:52:55,249 --> 00:52:52,259

Australian skeptics National Convention

1123

00:52:57,349 --> 00:52:55,259

in Melbourne with SGU Susan Gerbic and

1124

00:52:59,120 --> 00:52:57,359

many other guests but if you're in

1125

00:53:02,269 --> 00:52:59,130

Sydney and you want some fun come along

1126  
00:53:04,699 --> 00:53:02,279  
to Maynard's movie night there's one on

1127  
00:53:06,620 --> 00:53:04,709  
the 6th of august at the red bar which

1128  
00:53:09,109 --> 00:53:06,630  
is in glebe at the end of Glee Point

1129  
00:53:10,909 --> 00:53:09,119  
Road near the Broadway it's only ten

1130  
00:53:15,649 --> 00:53:10,919  
dollars and more information for that

1131  
00:53:18,620 --> 00:53:15,659  
night can be found at Maynard com dot au

1132  
00:53:20,989 --> 00:53:18,630  
as well as information about Maenads

1133  
00:53:23,809 --> 00:53:20,999  
music nights the dance parties the Love

1134  
00:53:26,390 --> 00:53:23,819  
Shack head for Maine a calm day you for

1135  
00:53:29,089 --> 00:53:26,400  
Maine add fun information and his

1136  
00:53:32,120 --> 00:53:29,099  
podcasts and I hope to see you on the

1137  
00:53:34,789 --> 00:53:32,130  
6th of August at Maenads movie night and

1138  
00:53:36,769 --> 00:53:34,799

thank you to those people those patreon

1139

00:53:39,979 --> 00:53:36,779

people and people who chip in with

1140

00:53:43,339 --> 00:53:39,989

paypal lots of people are chipping in

1141

00:53:46,399 --> 00:53:43,349

with patreon for five dollars a month

1142

00:53:49,880 --> 00:53:46,409

which means it's less than a dollar a

1143

00:53:52,789 --> 00:53:49,890

week less than a dollar a week to enjoy

1144

00:53:56,359 --> 00:53:52,799

the skeptic zone that really is just

1145

00:54:00,050 --> 00:53:56,369

spare pocket change and if you think you

1146

00:54:03,230 --> 00:54:00,060

can spare less than a dollar a week

1147

00:54:04,850 --> 00:54:03,240

since beer cents a week for the sceptic

1148

00:54:07,870 --> 00:54:04,860

zone I would really appreciate it and so

1149

00:54:11,120 --> 00:54:07,880

would all the skeptics own reporters and

1150

00:54:12,980 --> 00:54:11,130

maybe more importantly the thousands of

1151  
00:54:15,080 --> 00:54:12,990  
people around the world who continue to

1152  
00:54:16,640 --> 00:54:15,090  
enjoy the skeptic zone now if you're

1153  
00:54:19,190 --> 00:54:16,650  
listening to the skeptic zone for free

1154  
00:54:22,280 --> 00:54:19,200  
without being a patreon or PayPal that's

1155  
00:54:23,990 --> 00:54:22,290  
fine I'm delighted

1156  
00:54:25,430 --> 00:54:24,000  
I really am pleased that you're

1157  
00:54:29,030 --> 00:54:25,440  
listening to the show but if you feel

1158  
00:54:30,890 --> 00:54:29,040  
that your enjoyment of the show what you

1159  
00:54:33,710 --> 00:54:30,900  
get out of it the company it gives you

1160  
00:54:35,630 --> 00:54:33,720  
on those long drives those walks yes I'm

1161  
00:54:37,460 --> 00:54:35,640  
talking to you on that long walk now

1162  
00:54:40,760 --> 00:54:37,470  
with the dog or you in the car

1163  
00:54:43,610 --> 00:54:40,770

you on the bus you on the train doing

1164

00:54:47,150 --> 00:54:43,620

the dishes mowing the lawn whatever

1165

00:54:50,270 --> 00:54:47,160

you're doing if I'm providing you

1166

00:54:53,780 --> 00:54:50,280

entertainment and some companionship and

1167

00:54:55,700 --> 00:54:53,790

interest then I hope you'll I hope

1168

00:54:58,070 --> 00:54:55,710

you'll think that the show is worth less

1169

00:55:01,250 --> 00:54:58,080

than a dollar a week to you anyway go to

1170

00:55:03,980 --> 00:55:01,260

skeptic zone TV and find out more about

1171

00:55:06,410 --> 00:55:03,990

becoming a patreon you know leave view

1172

00:55:11,410 --> 00:55:06,420

of this thought that I sincerely hope

1173

00:55:16,160 --> 00:55:11,420

that sometime within the next 10 years

1174

00:55:19,550 --> 00:55:16,170

that there are more moon missions I was

1175

00:55:21,410 --> 00:55:19,560

really too young to appreciate those the

1176  
00:55:24,530 --> 00:55:21,420  
moon missions of the late 60s early 70s

1177  
00:55:27,620 --> 00:55:24,540  
and personally I would think that would

1178  
00:55:31,040 --> 00:55:27,630  
be so exciting with today's technology

1179  
00:55:33,710 --> 00:55:31,050  
and high def cameras and what-have-you

1180  
00:55:35,330 --> 00:55:33,720  
to see people back on the moon and I

1181  
00:55:38,540 --> 00:55:35,340  
wouldn't be surprised if it's another

1182  
00:55:40,700 --> 00:55:38,550  
country who gets there next we'll see

1183  
00:55:43,220 --> 00:55:40,710  
but for this week from Sydney Australia

1184  
00:55:45,340 --> 00:55:43,230  
maybe it will be Australia yes the

1185  
00:55:47,900 --> 00:55:45,350  
Australian space force off to the moon

1186  
00:55:53,210 --> 00:55:47,910  
any volunteers this is Richard Saunders

1187  
00:55:59,420 --> 00:55:55,740  
you've been listening to the skeptic

1188  
00:56:04,410 --> 00:55:59,430

zone podcast please visit our website at

1189

00:56:07,230 --> 00:56:04,420

WWDC be for show notes contacts and to

1190

00:56:10,860 --> 00:56:07,240

access the bat catalog of episodes going

1191

00:56:13,670 --> 00:56:10,870

back to 2008 you can follow the skeptic

1192

00:56:16,410 --> 00:56:13,680

zone podcast on twitter at skeptic zone

1193

00:56:19,890 --> 00:56:16,420

visit our facebook page or leave a

1194

00:56:22,800 --> 00:56:19,900

review on itunes you can also support

1195

00:56:25,230 --> 00:56:22,810

the skeptic zone via patreon or PayPal

1196

00:56:27,900 --> 00:56:25,240

the skeptic zone podcast is an

1197

00:56:29,730 --> 00:56:27,910

independent production reviews and

1198

00:56:31,980 --> 00:56:29,740

opinions expressed on the skeptic zone

1199

00:56:34,530 --> 00:56:31,990

are not necessarily those of Australian

1200

00:56:35,440 --> 00:56:34,540

skeptics or any other skeptical

1201  
00:56:46,740 --> 00:56:35,450  
organization

1202  
00:56:51,760 --> 00:56:49,330  
hello people who listen after the music

1203  
00:56:54,790 --> 00:56:51,770  
the afterthoughts I'm still on the line

1204  
00:56:57,730 --> 00:56:54,800  
by weird technology maybe from the

1205  
00:56:59,260 --> 00:56:57,740  
aliens with Ben Radford hello Ben

1206  
00:57:01,860 --> 00:56:59,270  
we're gonna play the dice game again and

1207  
00:57:05,140 --> 00:57:01,870  
I'm gonna use my lovely alien die from

1208  
00:57:05,650 --> 00:57:05,150  
Albuquerque you are I got a good feeling

1209  
00:57:07,630 --> 00:57:05,660  
about this

1210  
00:57:10,240 --> 00:57:07,640  
he's got a good feeling it's only six

1211  
00:57:12,760 --> 00:57:10,250  
sided but each side has either UFOs or

1212  
00:57:15,130 --> 00:57:12,770  
aliens or alien eyes it's quite cute and

1213  
00:57:17,200 --> 00:57:15,140

they glow in the dark boy this is this

1214

00:57:19,240 --> 00:57:17,210

is this is quite a set of guidelines

1215

00:57:22,450 --> 00:57:19,250

word no I certainly did

1216

00:57:24,460 --> 00:57:22,460

okay I'm gonna roll the six-sided die

1217

00:57:27,850 --> 00:57:24,470

here folks everybody out there use your

1218

00:57:29,950 --> 00:57:27,860

predicting powers and think what number

1219

00:57:33,730 --> 00:57:29,960

will come up and you'll have to trust my

1220

00:57:37,600 --> 00:57:33,740

honesty I am I every week I do say what

1221

00:57:40,360 --> 00:57:37,610

the faces of the the diet Ben would you

1222

00:57:43,570 --> 00:57:40,370

care to hazard a guess what number comes

1223

00:57:45,400 --> 00:57:43,580

up first I'm getting it - you getting a

1224

00:57:53,130 --> 00:57:45,410

- all right here we go

1225

00:57:56,620 --> 00:57:53,140

here we go 5 mmm okay well I to be fair

1226

00:57:59,140 --> 00:57:56,630

it's only up by three that's pretty

1227

00:58:01,420 --> 00:57:59,150

close we'll try it again

1228

00:58:02,740 --> 00:58:01,430

come on aliens everywhere here we go

1229

00:58:05,200 --> 00:58:02,750

maybe the aliens are listening and

1230

00:58:08,590 --> 00:58:05,210

predicting okay okay oh no no sorry you

1231

00:58:10,690 --> 00:58:08,600

have to call it first um six ain't

1232

00:58:14,880 --> 00:58:10,700

getting a six getting a six here we go

1233

00:58:18,430 --> 00:58:14,890

no fell off the table damn it we go

1234

00:58:21,160 --> 00:58:18,440

four okay now it would have been it

1235

00:58:22,480 --> 00:58:21,170

would have been a sick either would have

1236

00:58:23,770 --> 00:58:22,490

been a six of course I it would have

1237

00:58:25,330 --> 00:58:23,780

been just just you understand it

1238

00:58:29,080 --> 00:58:25,340

would've been a six but since anyway

1239

00:58:30,070 --> 00:58:29,090

that's okay what am I thinking okay last

1240

00:58:35,830 --> 00:58:30,080

one here we go

1241

00:58:42,940 --> 00:58:35,840

what do you say three three okay here we

1242

00:58:45,310 --> 00:58:42,950

go I don't believe it it's two now wait

1243

00:58:47,880 --> 00:58:45,320

a minute every time you're getting a bit

1244

00:58:50,920 --> 00:58:47,890

closer to the to the actual number and

1245

00:58:52,810 --> 00:58:50,930

if you think about it what are the

1246

00:58:56,080 --> 00:58:52,820

chances that I would be wrong every time

1247

00:58:59,650 --> 00:58:56,090

that's Wow let's go dude

1248

00:59:04,720 --> 00:59:03,370

oh by the way every time I burp or

1249

00:59:09,040 --> 00:59:04,730

something that's not being recorded I

1250

00:59:13,410 --> 00:59:09,050

mute my microphone I got a plane hang on

1251

00:59:15,790 --> 00:59:13,420

a sec maybe it's an alien I don't know

1252

00:59:17,670 --> 00:59:15,800

what don't they want us to record videos

1253

00:59:20,500 --> 00:59:17,680

that's it that's it

1254

00:59:22,750 --> 00:59:20,510

it's just dying now and we should tell

1255

00:59:24,880 --> 00:59:22,760

what they would this is what kills me

1256

00:59:26,680 --> 00:59:24,890

man I love to do interviews in the

1257

00:59:28,480 --> 00:59:26,690

morning Sydney time because I got a good

1258

00:59:31,390 --> 00:59:28,490

voice you know I got I've slept all

1259

00:59:34,780 --> 00:59:31,400

night my voice is fresh and yeah it's

1260

00:59:38,320 --> 00:59:34,790

got the tones I really appreciate but at

1261

00:59:40,510 --> 00:59:38,330

the same time my tummy rumbles so quite

1262

00:59:42,160 --> 00:59:40,520

often I'm ready I'm recording something

1263

00:59:50,560 --> 00:59:42,170

for the show like and of course when the