

1  
00:00:00,060 --> 00:00:05,758  
I believe that this nation should commit

2  
00:00:02,040 --> 00:00:08,400  
itself to achieving the goal before this

3  
00:00:05,759 --> 00:00:10,530  
decade is out of landing a man on the

4  
00:00:08,400 --> 00:00:11,150  
moon and returning him safely to the

5  
00:00:10,529 --> 00:00:13,829  
earth

6  
00:00:11,150 --> 00:00:16,980  
no single space project in this period

7  
00:00:13,830 --> 00:00:18,690  
will be more impressive to mankind or

8  
00:00:16,980 --> 00:00:22,050  
more important for the long-range

9  
00:00:18,690 --> 00:00:26,000  
exploration of space and none will be so

10  
00:00:22,050 --> 00:00:26,000  
difficult or expensive to accomplish

11  
00:00:30,349 --> 00:00:36,270  
welcome to the skipped exert the podcast

12  
00:00:33,509 --> 00:00:46,750  
from Australia for science and reason

13  
00:00:36,270 --> 00:00:50,359  
[Music]

14  
00:00:46,750 --> 00:00:53,628  
yes welcome to this lunar episode of the

15  
00:00:50,359 --> 00:00:59,420  
skeptics own podcast episode number 561

16  
00:00:53,628 --> 00:01:00,678  
for the 21st of July 1969 2019 and I

17  
00:00:59,420 --> 00:01:05,149  
think I mentioned on last week's show

18  
00:01:00,679 --> 00:01:07,570  
that exactly fifty years ago as I record

19  
00:01:05,149 --> 00:01:11,629  
this I was sitting in front of the TV

20  
00:01:07,569 --> 00:01:14,269  
watching yeah the moon landing although

21  
00:01:11,629 --> 00:01:16,670  
I don't really remember it but coming up

22  
00:01:14,269 --> 00:01:19,250  
on this week's show something well maybe

23  
00:01:16,670 --> 00:01:21,560  
some listeners would remember reading

24  
00:01:19,250 --> 00:01:25,549  
the front page of The Sydney Morning

25  
00:01:21,560 --> 00:01:28,728  
Herald newspaper published exactly 50

26  
00:01:25,549 --> 00:01:31,909  
years ago this morning as I record as a

27  
00:01:28,728 --> 00:01:34,189  
tribute to the Apollo mission I will

28  
00:01:31,909 --> 00:01:35,899  
read most of the front page of The

29

00:01:34,189 --> 00:01:40,250  
Sydney Morning Herald coming up very

30  
00:01:35,899 --> 00:01:43,280  
soon men on moon US astronauts open a

31  
00:01:40,250 --> 00:01:45,200  
new era for mankind man has landed on

32  
00:01:43,280 --> 00:01:47,269  
the moon the u.s. spacecraft eagle

33  
00:01:45,200 --> 00:01:50,180  
carrying Neil Armstrong and Edwin Aldrin

34  
00:01:47,269 --> 00:01:51,078  
touched down on the lunar surface early

35  
00:01:50,180 --> 00:01:54,049  
today

36  
00:01:51,078 --> 00:01:56,798  
Sydney time how exciting that must have

37  
00:01:54,049 --> 00:01:59,149  
been for people reading that at the time

38  
00:01:56,799 --> 00:02:01,670  
following that I'm going to read a New

39  
00:01:59,149 --> 00:02:03,978  
Flyer or should I say a revamped flyer

40  
00:02:01,670 --> 00:02:07,219  
from Australian skeptics dealing with

41  
00:02:03,978 --> 00:02:10,519  
the moon landing hoax the so called moon

42  
00:02:07,218 --> 00:02:13,310  
landing hoax and I must say that this

43  
00:02:10,519 --> 00:02:15,500

whole people never went to the moon

44

00:02:13,310 --> 00:02:19,459

NASA is lying to us conspiracy theory

45

00:02:15,500 --> 00:02:21,829

it's really really faded away over the

46

00:02:19,459 --> 00:02:24,590

last few years it's still around there

47

00:02:21,829 --> 00:02:26,870

are still those people on line pushing

48

00:02:24,590 --> 00:02:29,120

this and bringing up old arguments I

49

00:02:26,870 --> 00:02:32,060

still know people who firmly believe

50

00:02:29,120 --> 00:02:34,129

that Neil Armstrong and Buzz Aldrin

51

00:02:32,060 --> 00:02:36,890

never went to the moon and neither did

52

00:02:34,129 --> 00:02:40,639

anybody else but I'm glad to say this

53

00:02:36,889 --> 00:02:43,309

conspiracy is I think it's virtually

54

00:02:40,639 --> 00:02:44,509

died its own death nevertheless the

55

00:02:43,310 --> 00:02:47,329

Australian skeptics have put out a

56

00:02:44,509 --> 00:02:50,090

revamped flyer about this issue moon

57

00:02:47,329 --> 00:02:52,519

landings were no hoax which explore some

58  
00:02:50,090 --> 00:02:55,098  
of the major points put forward by

59  
00:02:52,519 --> 00:02:57,469  
conspiracy theorists then I catch up

60  
00:02:55,098 --> 00:02:58,729  
with Ben Radford from Albuquerque New

61  
00:02:57,469 --> 00:03:02,150  
Mexico and one of the co

62  
00:02:58,729 --> 00:03:03,590  
hosts of squaring the strange because

63  
00:03:02,150 --> 00:03:05,539  
it's come to my attention and maybe

64  
00:03:03,590 --> 00:03:08,239  
you've heard it too by now that there's

65  
00:03:05,539 --> 00:03:12,679  
some sort of wacky plan or maybe it's a

66  
00:03:08,239 --> 00:03:15,378  
hoax to to storm area 51 the US

67  
00:03:12,680 --> 00:03:22,280  
government testing area in the Nevada

68  
00:03:15,378 --> 00:03:25,250  
desert and it seems like a very ill

69  
00:03:22,280 --> 00:03:28,459  
conceived idea so we strongly suspect

70  
00:03:25,250 --> 00:03:30,560  
it's just a silly hoax and a silly hoax

71  
00:03:28,459 --> 00:03:33,739  
that maybe has gone a bit wrong because

72  
00:03:30,560 --> 00:03:35,509  
if people do turn up the last thing

73  
00:03:33,739 --> 00:03:38,030  
they're going to be doing is storing

74  
00:03:35,509 --> 00:03:41,120  
area 51 getting anywhere near it

75  
00:03:38,030 --> 00:03:44,269  
but what's the story behind this area 51

76  
00:03:41,120 --> 00:03:45,650  
we find out with Ben Radford then to

77  
00:03:44,269 --> 00:03:48,349  
round off the show it's susan gerbic

78  
00:03:45,650 --> 00:03:52,579  
with her new segment yes it's about time

79  
00:03:48,348 --> 00:03:54,949  
I think we need to think through susan

80  
00:03:52,579 --> 00:03:58,400  
gerbic and susan this week chats to

81  
00:03:54,949 --> 00:04:01,848  
Carlos OC and Natalia Pasternak from

82  
00:03:58,400 --> 00:04:05,120  
Brazil a couple of Brazilian skeptics

83  
00:04:01,848 --> 00:04:08,449  
trying to get skepticism really underway

84  
00:04:05,120 --> 00:04:10,789  
in that South American country what's

85  
00:04:08,449 --> 00:04:13,280  
the story with pseudoscience in Brazil

86

00:04:10,789 --> 00:04:16,069  
find out with susan gerbic at the end of

87  
00:04:13,280 --> 00:04:19,069  
the show but now it's time for me to run

88  
00:04:16,069 --> 00:04:20,810  
down the stairs jump into my car drive

89  
00:04:19,069 --> 00:04:24,500  
to some sort of spaceport and go to the

90  
00:04:20,810 --> 00:04:26,209  
moon yes that would be fun cause I think

91  
00:04:24,500 --> 00:04:28,970  
that's really not going to happen maybe

92  
00:04:26,209 --> 00:04:33,620  
instead I should have some some nice

93  
00:04:28,970 --> 00:04:37,370  
sushi followed by coffee sound good to

94  
00:04:33,620 --> 00:04:39,939  
you well I do that I hope you enjoy the

95  
00:04:37,370 --> 00:04:39,939  
skeptic zone

96  
00:04:50,000 --> 00:04:56,800  
[Music]

97  
00:04:54,350 --> 00:05:02,590  
[Applause]

98  
00:04:56,800 --> 00:05:05,680  
five four three two one

99  
00:05:02,589 --> 00:05:05,679  
[Music]

100  
00:05:05,709 --> 00:05:33,409

we have a baby one all philtrum and when

101

00:05:30,319 --> 00:05:35,750

contemplating what what I should do for

102

00:05:33,410 --> 00:05:39,050

the 50th anniversary of the moon landing

103

00:05:35,750 --> 00:05:41,360

I thought I would do a bit of research

104

00:05:39,050 --> 00:05:45,920

and look at the front page of The Sydney

105

00:05:41,360 --> 00:05:48,290

Morning Herald newspaper to see what

106

00:05:45,920 --> 00:05:52,660

people of the time fifty years ago in

107

00:05:48,290 --> 00:05:57,430

Sydney in Australia were reading and so

108

00:05:52,660 --> 00:06:03,800

the Sydney Morning Herald Monday July 21

109

00:05:57,430 --> 00:06:06,990

1969 banner headline men on moon US

110

00:06:03,800 --> 00:06:11,119

astronauts open a new era for mankind

111

00:06:06,990 --> 00:06:11,119

[Music]

112

00:06:11,158 --> 00:06:18,009

and this is from Peter Michael Moore and

113

00:06:14,588 --> 00:06:22,868

Roy McCartney at Mission Control Houston

114

00:06:18,009 --> 00:06:26,110

Texas and aap man has landed on the moon

115  
00:06:22,869 --> 00:06:28,959  
the u.s. spacecraft eagle carrying Neil

116  
00:06:26,110 --> 00:06:31,300  
Armstrong and Edwin Aldrin touched down

117  
00:06:28,959 --> 00:06:34,619  
on the lunar surface early today

118  
00:06:31,300 --> 00:06:37,658  
Sydney time the astronauts landing

119  
00:06:34,619 --> 00:06:40,899  
mankind's first on another celestial

120  
00:06:37,658 --> 00:06:44,110  
body opens a new era in the history of

121  
00:06:40,899 --> 00:06:46,300  
the human race as the Columbia piloted

122  
00:06:44,110 --> 00:06:48,838  
by Michael Collins continued to circle

123  
00:06:46,300 --> 00:06:51,899  
the moon the lunar module Eagle

124  
00:06:48,838 --> 00:06:56,079  
separated from it at a height of about

125  
00:06:51,899 --> 00:06:59,468  
50,000 feet and the speed of 3500 miles

126  
00:06:56,079 --> 00:07:02,288  
per hour the Eagle crew fired the engine

127  
00:06:59,468 --> 00:07:04,088  
which slowed its velocity and then it

128  
00:07:02,288 --> 00:07:07,300  
began dropping towards the moon's

129  
00:07:04,088 --> 00:07:09,579  
surface after maneuvering into an

130  
00:07:07,300 --> 00:07:13,028  
upright position for its final descent

131  
00:07:09,579 --> 00:07:17,079  
the Eagle aligned astride a pillar of

132  
00:07:13,028 --> 00:07:20,079  
rocket flame touchdown came 102 hours

133  
00:07:17,079 --> 00:07:22,418  
after liftoff from the earth Armstrong

134  
00:07:20,079 --> 00:07:25,748  
and Aldrin was scheduled to make a

135  
00:07:22,418 --> 00:07:27,968  
two-hour check of the Eagle for possible

136  
00:07:25,749 --> 00:07:30,459  
damage following the landing if they

137  
00:07:27,968 --> 00:07:32,860  
found serious faults such as leaking

138  
00:07:30,459 --> 00:07:34,418  
fuel or falling cabin pressure they were

139  
00:07:32,860 --> 00:07:36,759  
under instructions to take off

140  
00:07:34,418 --> 00:07:39,609  
immediately and rejoined Collins in the

141  
00:07:36,759 --> 00:07:42,699  
Columbia all being well they are

142  
00:07:39,610 --> 00:07:45,968  
scheduled to eat take a four-hour rest

143

00:07:42,699 --> 00:07:48,189  
and eat again before Armstrong emerges

144  
00:07:45,968 --> 00:07:50,228  
from the eagle but there is a strong

145  
00:07:48,189 --> 00:07:52,718  
possibility that Armstrong will make his

146  
00:07:50,228 --> 00:07:56,079  
lunar walk early perhaps only three

147  
00:07:52,718 --> 00:07:59,348  
hours after touchdown instead of at 4:16

148  
00:07:56,079 --> 00:08:01,538  
p.m. and scheduled when he does his

149  
00:07:59,348 --> 00:08:05,528  
steps will be imprinted for all time on

150  
00:08:01,538 --> 00:08:06,459  
the records and the minds of men checks

151  
00:08:05,528 --> 00:08:10,058  
ahead of schedule

152  
00:08:06,459 --> 00:08:12,338  
the astronauts awoke on schedule soon

153  
00:08:10,059 --> 00:08:14,139  
after nine o'clock last night behind

154  
00:08:12,338 --> 00:08:16,658  
them was a day in which they entered

155  
00:08:14,139 --> 00:08:19,418  
lunar orbit then circled the moon ten

156  
00:08:16,658 --> 00:08:21,308  
times the astronauts had slept for about

157  
00:08:19,418 --> 00:08:22,939

five hours before Mission Control in

158

00:08:21,309 --> 00:08:25,550  
Houston roused them

159

00:08:22,939 --> 00:08:27,889  
the initial conversation carried no hint

160

00:08:25,550 --> 00:08:30,980  
of the historic moment looming nine

161

00:08:27,889 --> 00:08:33,819  
hours ahead capsule communicator ron

162

00:08:30,980 --> 00:08:37,729  
evans put in the wake-up call at about

163

00:08:33,820 --> 00:08:40,610  
904 p.m. as the ship passed behind the

164

00:08:37,729 --> 00:08:43,940  
moon collins answered the call with a

165

00:08:40,610 --> 00:08:47,060  
pause good morning houston you guys are

166

00:08:43,940 --> 00:08:47,840  
sure up early then the crew lapsed into

167

00:08:47,059 --> 00:08:50,209  
silence

168

00:08:47,840 --> 00:08:52,370  
eating breakfast and beginning the

169

00:08:50,210 --> 00:08:56,000  
checks to make sure their spaceship was

170

00:08:52,370 --> 00:08:58,700  
ready to perform the landing breakfast

171

00:08:56,000 --> 00:09:03,169  
was peaches bacon squares strawberry

172  
00:08:58,700 --> 00:09:05,420  
cubes orange and grape drinks sixty

173  
00:09:03,169 --> 00:09:08,599  
miles below Apollo stretched the moon's

174  
00:09:05,419 --> 00:09:12,019  
airless jagged hostile face and its

175  
00:09:08,600 --> 00:09:14,210  
searing temperatures first move Aldrin

176  
00:09:12,019 --> 00:09:16,639  
made the first move of the most vital

177  
00:09:14,210 --> 00:09:20,019  
day at the end of the tenth orbit of the

178  
00:09:16,639 --> 00:09:22,789  
moon he left Columbia about 11:20 p.m.

179  
00:09:20,019 --> 00:09:24,769  
Sydney time and slipped through a

180  
00:09:22,789 --> 00:09:27,919  
connecting tunnel into the ungainly

181  
00:09:24,769 --> 00:09:30,649  
looking Eagle there he turned on the

182  
00:09:27,919 --> 00:09:32,990  
power and pressurized the ship he was

183  
00:09:30,649 --> 00:09:35,509  
followed in by Armstrong the module

184  
00:09:32,990 --> 00:09:38,180  
pilot and after examination of all

185  
00:09:35,509 --> 00:09:40,730  
controls and dials they reported back to

186  
00:09:38,179 --> 00:09:43,519  
Houston we're in good shape they were

187  
00:09:40,730 --> 00:09:46,580  
going further and further ahead of the

188  
00:09:43,519 --> 00:09:49,279  
work schedule all the date they had

189  
00:09:46,580 --> 00:09:52,129  
Eagle powered in 30 minutes ahead of the

190  
00:09:49,279 --> 00:09:54,740  
flight plan less than three hours from

191  
00:09:52,129 --> 00:09:57,039  
Eagle undocking and a bear five and a

192  
00:09:54,740 --> 00:10:00,080  
half hours from the scheduled touchdown

193  
00:09:57,039 --> 00:10:02,599  
everything was going perfectly for the

194  
00:10:00,080 --> 00:10:05,000  
first time in flight Houston control was

195  
00:10:02,600 --> 00:10:08,629  
calling the Eagle and Columbia by name

196  
00:10:05,000 --> 00:10:10,730  
instead of Apollo 11 Armstrong had

197  
00:10:08,629 --> 00:10:14,439  
donned his pressure suit to enter the

198  
00:10:10,730 --> 00:10:17,120  
Eagle and of course this story goes on

199  
00:10:14,440 --> 00:10:20,780  
most of the first page most of the front

200

00:10:17,120 --> 00:10:23,840  
page and continued on let's see it's

201  
00:10:20,779 --> 00:10:25,549  
continued on page three and we read on a

202  
00:10:23,840 --> 00:10:28,879  
little bit more from page three which

203  
00:10:25,549 --> 00:10:32,179  
says the Apollo 11 saga the first day on

204  
00:10:28,879 --> 00:10:35,539  
the moon and this page says in part on

205  
00:10:32,179 --> 00:10:36,769  
paper Armstrong and Aldrin are supposed

206  
00:10:35,539 --> 00:10:39,769  
to stay in the

207  
00:10:36,769 --> 00:10:42,499  
Eagles cramped cabin for nine hours 53

208  
00:10:39,769 --> 00:10:45,739  
minutes before setting foot outside onto

209  
00:10:42,499 --> 00:10:48,409  
the crater pocked bed of the Sea of

210  
00:10:45,739 --> 00:10:50,540  
Tranquility besides making sure their

211  
00:10:48,409 --> 00:10:52,519  
ship is in good shape for takeoff they

212  
00:10:50,539 --> 00:10:55,219  
are scheduled to eat and rest with a

213  
00:10:52,519 --> 00:10:57,739  
goal long thought to be unobtainable a

214  
00:10:55,220 --> 00:11:00,350

nine rung ladders length away

215

00:10:57,739 --> 00:11:02,809

Armstrong before the flight doubted he

216

00:11:00,350 --> 00:11:05,449

would be able to sleep if mission

217

00:11:02,808 --> 00:11:08,149

controllers are sure the space ship was

218

00:11:05,448 --> 00:11:09,528

not damaged on landing and if doctors

219

00:11:08,149 --> 00:11:13,129

are satisfied that the men are

220

00:11:09,528 --> 00:11:16,068

well-rested their slow stroll across the

221

00:11:13,129 --> 00:11:18,199

airless moon scape could begin any time

222

00:11:16,068 --> 00:11:20,988

after landing the lunar surface

223

00:11:18,198 --> 00:11:24,678

timetable calls for the astronauts to

224

00:11:20,989 --> 00:11:27,860

spend 21 hours 36 minutes on the moon 2

225

00:11:24,678 --> 00:11:35,629

hours and 40 minutes of that exploring

226

00:11:27,860 --> 00:11:37,249

the area around their spaceship can you

227

00:11:35,629 --> 00:11:39,798

imagine what it must have been like for

228

00:11:37,249 --> 00:11:44,178

those people in Sydney and Australia and

229  
00:11:39,798 --> 00:11:47,149  
the world 50 years ago 50 years ago

230  
00:11:44,178 --> 00:11:48,828  
reading that in the newspapers or having

231  
00:11:47,149 --> 00:11:52,278  
just watched some of that on the

232  
00:11:48,828 --> 00:11:55,729  
television but all in this report with

233  
00:11:52,278 --> 00:12:00,919  
another little section in the in the

234  
00:11:55,730 --> 00:12:04,519  
paper on the third page watching for

235  
00:12:00,919 --> 00:12:06,498  
bunny-girl when ground control read the

236  
00:12:04,519 --> 00:12:09,019  
morning news to the Apollo astronauts

237  
00:12:06,499 --> 00:12:10,970  
they were told that one of the articles

238  
00:12:09,019 --> 00:12:12,828  
about their mission made a special plea

239  
00:12:10,970 --> 00:12:15,319  
that they should look out for a

240  
00:12:12,828 --> 00:12:18,428  
beautiful Chinese girl who had been

241  
00:12:15,318 --> 00:12:21,198  
banished to the moon 4,000 years ago

242  
00:12:18,428 --> 00:12:23,379  
according to the legend the Chinese girl

243  
00:12:21,198 --> 00:12:27,438  
was accompanied by a large Chinese

244  
00:12:23,379 --> 00:12:31,149  
rabbit okay said Armstrong we'll keep a

245  
00:12:27,438 --> 00:12:31,149  
close eye out for the bunny girl

246  
00:12:32,980 --> 00:12:38,230  
[Applause]

247  
00:12:35,610 --> 00:12:40,389  
downloadable printable information flyer

248  
00:12:38,230 --> 00:12:46,840  
from Australian skeptics released on the

249  
00:12:40,389 --> 00:12:56,049  
16th of July 2019 moon landings were no

250  
00:12:46,840 --> 00:12:58,210  
hoax on July 20th 1969 two men from the

251  
00:12:56,049 --> 00:13:01,149  
planet Earth first set foot upon the

252  
00:12:58,210 --> 00:13:04,389  
moon millions of people around the world

253  
00:13:01,149 --> 00:13:06,100  
were riveted to their TV screens as Neil

254  
00:13:04,389 --> 00:13:07,529  
Armstrong stepped from the landing

255  
00:13:06,100 --> 00:13:52,720  
module

256  
00:13:07,529 --> 00:13:55,269  
reading from the reality TV pas

257

00:13:52,720 --> 00:13:58,389  
excellence for the next two years and

258  
00:13:55,269 --> 00:14:01,199  
five more successful missions later the

259  
00:13:58,389 --> 00:14:03,909  
number of moon walkers had reached 12

260  
00:14:01,200 --> 00:14:08,259  
since the last of these missions Apollo

261  
00:14:03,909 --> 00:14:10,899  
17 splashed down in 1972 momentum has

262  
00:14:08,259 --> 00:14:13,539  
gathered for the proposition that we

263  
00:14:10,899 --> 00:14:16,230  
have all been misled by the US

264  
00:14:13,539 --> 00:14:19,240  
government and by NASA in particular

265  
00:14:16,230 --> 00:14:22,690  
that the whole endeavor was somehow

266  
00:14:19,240 --> 00:14:26,230  
faked and no one has in fact visited the

267  
00:14:22,690 --> 00:14:29,320  
moon this conspiracy theory gained much

268  
00:14:26,230 --> 00:14:32,920  
attention in the early 2000s with Fox's

269  
00:14:29,320 --> 00:14:35,500  
TV special conspiracy theory did we land

270  
00:14:32,919 --> 00:14:38,439  
on the moon which aired in the USA in

271  
00:14:35,500 --> 00:14:41,259

February 2001 millions of viewers

272

00:14:38,440 --> 00:14:43,360

apparently found the pro hoax arguments

273

00:14:41,259 --> 00:14:45,819

persuasive and convincing

274

00:14:43,360 --> 00:14:47,269

according to Fox there were the

275

00:14:45,820 --> 00:14:49,250

technical experts

276

00:14:47,269 --> 00:14:51,860

American and Russian who claimed that

277

00:14:49,250 --> 00:14:55,279

NASA did not possess the technology in

278

00:14:51,860 --> 00:14:58,370

1969 to achieve these feats or at least

279

00:14:55,279 --> 00:15:00,769

the likelihood of success was so tiny

280

00:14:58,370 --> 00:15:02,330

that the risk of a real moon landing

281

00:15:00,769 --> 00:15:04,340

would not have been seriously

282

00:15:02,330 --> 00:15:08,060

contemplated some of the other

283

00:15:04,340 --> 00:15:12,110

sensational facts put forward in 2001

284

00:15:08,059 --> 00:15:14,119

and still being used today are the film

285

00:15:12,110 --> 00:15:16,850

footage of the astronauts on the moon is

286  
00:15:14,120 --> 00:15:19,190  
said to contain so many technical errors

287  
00:15:16,850 --> 00:15:23,149  
that it must have been shot in a studio

288  
00:15:19,190 --> 00:15:26,600  
on earth the flag when planted appears

289  
00:15:23,149 --> 00:15:29,750  
to wave in the breeze even though the

290  
00:15:26,600 --> 00:15:34,129  
moon is airless although the moon's sky

291  
00:15:29,750 --> 00:15:36,320  
is black there are no stars no blast

292  
00:15:34,129 --> 00:15:39,289  
crater is visible under the landing

293  
00:15:36,320 --> 00:15:42,140  
module the shadows appear to go in

294  
00:15:39,289 --> 00:15:45,379  
different directions so there must be

295  
00:15:42,139 --> 00:15:48,730  
several studio light sources in

296  
00:15:45,379 --> 00:15:50,990  
providing a motivation for a nasa hoax

297  
00:15:48,730 --> 00:15:53,480  
conspiracy theorists point to the

298  
00:15:50,990 --> 00:15:55,279  
intense rivalry between the USA and the

299  
00:15:53,480 --> 00:15:59,000  
Eastern Bloc that existed at the time

300  
00:15:55,279 --> 00:16:02,240  
the USSR had in fact already beaten the

301  
00:15:59,000 --> 00:16:04,820  
USA time and time again in the so called

302  
00:16:02,240 --> 00:16:07,820  
space race and had been first the

303  
00:16:04,820 --> 00:16:10,670  
photograph the moon's dark side when

304  
00:16:07,820 --> 00:16:12,800  
President Kennedy pronounced in 1963

305  
00:16:10,669 --> 00:16:15,979  
that the USA would land men on the moon

306  
00:16:12,799 --> 00:16:18,799  
before this decade is out he committed

307  
00:16:15,980 --> 00:16:22,129  
future governments to a goal that had to

308  
00:16:18,799 --> 00:16:24,859  
be seen to be achieved at all costs it

309  
00:16:22,129 --> 00:16:28,070  
was important for status and diplomacy

310  
00:16:24,860 --> 00:16:31,490  
abroad the USA was also deeply involved

311  
00:16:28,070 --> 00:16:33,740  
in an increasingly unpopular war in

312  
00:16:31,490 --> 00:16:36,049  
Vietnam three successive presidents were

313  
00:16:33,740 --> 00:16:37,909  
keen to be associated with their

314

00:16:36,049 --> 00:16:40,969  
positive news that the Apollo program

315  
00:16:37,909 --> 00:16:44,089  
generated and while Apollo was expensive

316  
00:16:40,970 --> 00:16:46,480  
by some measures it was not that costly

317  
00:16:44,090 --> 00:16:49,460  
compared with America's defense and

318  
00:16:46,480 --> 00:16:52,700  
diplomatic budgets the possibility of

319  
00:16:49,460 --> 00:16:53,210  
failure of the Apollo program was not an

320  
00:16:52,700 --> 00:16:56,480  
option

321  
00:16:53,210 --> 00:16:58,519  
but the USA clearly did have the

322  
00:16:56,480 --> 00:17:01,009  
technology to launch a moon shot which

323  
00:16:58,519 --> 00:17:03,528  
could be sufficiently large to

324  
00:17:01,009 --> 00:17:06,019  
three men and which using several

325  
00:17:03,528 --> 00:17:09,259  
disposable stages of decreasing size

326  
00:17:06,019 --> 00:17:12,650  
could land on the moon takeoff and

327  
00:17:09,259 --> 00:17:14,900  
return to a soft splashdown on earth we

328  
00:17:12,650 --> 00:17:18,650

know this because the telemetry of

329

00:17:14,900 --> 00:17:21,798

unfriendly States USSR China East

330

00:17:18,650 --> 00:17:24,079

Germany reported that this is exactly

331

00:17:21,798 --> 00:17:26,568

what happened in later Apollo missions

332

00:17:24,078 --> 00:17:28,759

it is important to note that the Eastern

333

00:17:26,568 --> 00:17:31,099

Bloc raised no doubts in this area

334

00:17:28,759 --> 00:17:34,099

although they would have probably been

335

00:17:31,099 --> 00:17:35,869

hoping for an American failure to offset

336

00:17:34,099 --> 00:17:39,259

the considerable difficulties that the

337

00:17:35,869 --> 00:17:41,839

USSR s program was experiencing these

338

00:17:39,259 --> 00:17:43,819

countries would have alerted the rest of

339

00:17:41,839 --> 00:17:47,449

the world if they had evidence the

340

00:17:43,819 --> 00:17:52,069

missions were somehow faked the two most

341

00:17:47,450 --> 00:17:54,259

quoted flaws are the flag waving and the

342

00:17:52,069 --> 00:17:58,519

lack of stars and photographs of the

343  
00:17:54,259 --> 00:18:01,490  
moon's sky when the metallic flagpole

344  
00:17:58,519 --> 00:18:04,819  
was planted by twisting it into the soil

345  
00:18:01,490 --> 00:18:08,179  
it had a certain springiness causing the

346  
00:18:04,819 --> 00:18:10,279  
flag to ripple that wave continued

347  
00:18:08,179 --> 00:18:13,340  
because there is no atmosphere to dampen

348  
00:18:10,279 --> 00:18:16,069  
it once the flag stopped the ripples

349  
00:18:13,339 --> 00:18:18,379  
were frozen into place which is why the

350  
00:18:16,069 --> 00:18:21,589  
shape of the flag is the same in all

351  
00:18:18,380 --> 00:18:23,390  
subsequent photos and movies exactly

352  
00:18:21,589 --> 00:18:25,459  
what you would expect on the surface of

353  
00:18:23,390 --> 00:18:28,250  
the Moon next time you want to take a

354  
00:18:25,460 --> 00:18:30,590  
photograph of somebody at night you will

355  
00:18:28,250 --> 00:18:33,349  
need to control the amount of light from

356  
00:18:30,589 --> 00:18:36,769  
your subject if you expose them properly

357  
00:18:33,349 --> 00:18:38,779  
you will not see stars in the sky if you

358  
00:18:36,769 --> 00:18:40,879  
allow sufficient light for the stars to

359  
00:18:38,779 --> 00:18:42,950  
become visible in the developed

360  
00:18:40,880 --> 00:18:46,220  
photograph everything else in the

361  
00:18:42,950 --> 00:18:49,840  
photograph will be way overexposed the

362  
00:18:46,220 --> 00:18:52,429  
surface of the Moon is extremely bright

363  
00:18:49,839 --> 00:18:54,470  
hundreds of thousands of people all

364  
00:18:52,429 --> 00:18:58,460  
around the world who worked on the

365  
00:18:54,470 --> 00:19:00,789  
missions would have to be lying or have

366  
00:18:58,460 --> 00:19:04,069  
been massively and expensively

367  
00:19:00,789 --> 00:19:06,649  
hoodwinked these include a considerable

368  
00:19:04,069 --> 00:19:08,210  
part of the Pacific Fleet responsible

369  
00:19:06,650 --> 00:19:10,669  
for recovery of the astronauts at

370  
00:19:08,210 --> 00:19:12,470  
splashdown it also includes the media

371

00:19:10,669 --> 00:19:14,030  
reporters and technicians who were

372  
00:19:12,470 --> 00:19:16,519  
present at those events

373  
00:19:14,029 --> 00:19:19,099  
it includes trackers around the world

374  
00:19:16,519 --> 00:19:21,740  
including Australians at the parks dish

375  
00:19:19,099 --> 00:19:25,250  
who monitored voice communication when

376  
00:19:21,740 --> 00:19:27,740  
the astronauts were overhead continuing

377  
00:19:25,250 --> 00:19:28,309  
to believe that the moon landings were

378  
00:19:27,740 --> 00:19:30,920  
faked

379  
00:19:28,309 --> 00:19:32,899  
despite the solid evidence from many

380  
00:19:30,920 --> 00:19:36,039  
quarters that confirms the missions

381  
00:19:32,900 --> 00:19:39,290  
despite the thorough and painstaking

382  
00:19:36,039 --> 00:19:42,079  
debunking of every major objection from

383  
00:19:39,289 --> 00:19:45,259  
the conspiracy theorists from popular TV

384  
00:19:42,079 --> 00:19:48,559  
shows such as Mythbusters to hundreds of

385  
00:19:45,259 --> 00:19:51,920

detailed explanations online is not

386

00:19:48,559 --> 00:19:55,009

being skeptical it is being a science

387

00:19:51,920 --> 00:19:57,710

denier it is the same mindset that leads

388

00:19:55,009 --> 00:20:00,680

people to deny the earth is round or

389

00:19:57,710 --> 00:20:03,410

that climate change is also just another

390

00:20:00,680 --> 00:20:05,960

hoax the moon landings are among the

391

00:20:03,410 --> 00:20:08,570

greatest technological achievement of

392

00:20:05,960 --> 00:20:15,500

humankind with significant cultural

393

00:20:08,569 --> 00:20:17,750

impact they were real and that flyer can

394

00:20:15,500 --> 00:20:20,509

be downloaded from Australian skeptics

395

00:20:17,750 --> 00:20:24,230

I'll will add a link in the show notes

396

00:20:20,509 --> 00:20:27,430

and it's worth remembering that part of

397

00:20:24,230 --> 00:20:29,720

that flyer says that every major

398

00:20:27,430 --> 00:20:33,620

objection from the conspiracy theories

399

00:20:29,720 --> 00:20:37,130

has been debunked and when you get into

400  
00:20:33,619 --> 00:20:42,139  
that online on YouTube and other areas

401  
00:20:37,130 --> 00:20:44,900  
it's extraordinary the satisfying detail

402  
00:20:42,140 --> 00:20:47,650  
for which every conspiracy theory every

403  
00:20:44,900 --> 00:20:51,460  
objection every what about this from the

404  
00:20:47,650 --> 00:20:55,910  
conspiracy theorists has been dealt with

405  
00:20:51,460 --> 00:20:59,480  
thoroughly extensively logically

406  
00:20:55,910 --> 00:21:01,790  
scientifically and I think the flyer is

407  
00:20:59,480 --> 00:21:05,349  
quite right when faced with all this

408  
00:21:01,789 --> 00:21:08,809  
evidence and the disintegration of their

409  
00:21:05,349 --> 00:21:10,369  
arguments if people are still willing to

410  
00:21:08,809 --> 00:21:13,129  
believe the moon landings were faked

411  
00:21:10,369 --> 00:21:15,799  
well that's about as far from being a

412  
00:21:13,130 --> 00:21:18,590  
skeptic as you can get and much related

413  
00:21:15,799 --> 00:21:20,750  
to the theory that the moon landings

414  
00:21:18,589 --> 00:21:24,279  
were faked is the new movement about the

415  
00:21:20,750 --> 00:21:27,529  
Flat Earth and I will link to the

416  
00:21:24,279 --> 00:21:30,139  
YouTube channel of Simon dan from the UK

417  
00:21:27,529 --> 00:21:32,769  
who regularly takes flat-earthers to

418  
00:21:30,140 --> 00:21:35,810  
task and of course we don't forget

419  
00:21:32,769 --> 00:21:38,589  
professor Dave explains and he has some

420  
00:21:35,809 --> 00:21:41,569  
wonderful videos dealing with the

421  
00:21:38,589 --> 00:21:44,959  
bizarre arguments put forward by the

422  
00:21:41,569 --> 00:21:46,980  
Flat Earth conspiracy crowd again all

423  
00:21:44,960 --> 00:21:56,480  
the links in this week's show nerds

424  
00:21:46,980 --> 00:21:58,950  
[Music]

425  
00:21:56,480 --> 00:22:01,200  
the reason was the interview show from

426  
00:21:58,950 --> 00:22:02,460  
the Merseyside skeptic society where

427  
00:22:01,200 --> 00:22:04,500  
each month I speak to someone about

428

00:22:02,460 --> 00:22:06,779  
their fringe beliefs over the Earth's

429  
00:22:04,500 --> 00:22:08,849  
have spoken to psychics UFO believers

430  
00:22:06,779 --> 00:22:10,980  
moon landing and ayahs flat earthers

431  
00:22:08,849 --> 00:22:12,839  
Hollow Earth as an all manner of unusual

432  
00:22:10,980 --> 00:22:14,610  
conspiracy theorists but I've also

433  
00:22:12,839 --> 00:22:16,980  
talked to a denialists white

434  
00:22:14,609 --> 00:22:18,509  
supremacists gay conversion therapies

435  
00:22:16,980 --> 00:22:20,370  
I even interviewed Jim Humble the

436  
00:22:18,509 --> 00:22:22,079  
inventor of miracle mineral supplement a

437  
00:22:20,369 --> 00:22:23,639  
form of industrial bleach that he and

438  
00:22:22,079 --> 00:22:26,460  
his followers used to treat cancer and

439  
00:22:23,640 --> 00:22:28,590  
HIV this isn't a debate show my aim

440  
00:22:26,460 --> 00:22:30,900  
isn't to win an argument but when we

441  
00:22:28,589 --> 00:22:33,029  
listen to how people promote and justify

442  
00:22:30,900 --> 00:22:35,009

the ideas that we disagree with even the

443

00:22:33,029 --> 00:22:36,750

dangerous ones I think we become much

444

00:22:35,009 --> 00:22:38,579

more effective at countering those ideas

445

00:22:36,750 --> 00:22:40,650

if that sounds like something you'd be

446

00:22:38,579 --> 00:22:42,629

interested in look for be reasonable on

447

00:22:40,650 --> 00:22:43,519

Apple podcasts and everywhere else the

448

00:22:42,630 --> 00:22:52,230

podcast

449

00:22:43,519 --> 00:22:52,230

[Music]

450

00:23:00,809 --> 00:23:04,538

[Applause]

451

00:23:02,470 --> 00:23:07,029

and joining me now all the way from

452

00:23:04,538 --> 00:23:09,038

beautiful Albuquerque New Mexico and I

453

00:23:07,029 --> 00:23:11,440

know it's beautiful folks cuz I was

454

00:23:09,038 --> 00:23:14,400

there only a matter of weeks ago

455

00:23:11,440 --> 00:23:16,900

visiting my friend Ben Redfern hello Ben

456

00:23:14,400 --> 00:23:19,750

hello Richard great gates talk to you

457  
00:23:16,900 --> 00:23:21,700  
yes and what a wonderful time I did have

458  
00:23:19,750 --> 00:23:25,538  
an Albuquerque thank you very much for

459  
00:23:21,700 --> 00:23:27,279  
showing me around and and as I mentioned

460  
00:23:25,538 --> 00:23:30,548  
on last week's show we even had the

461  
00:23:27,279 --> 00:23:32,168  
bizarre situation where you would took a

462  
00:23:30,548 --> 00:23:33,849  
photograph of me just on the highway

463  
00:23:32,169 --> 00:23:36,100  
there and the lovely desert in the

464  
00:23:33,849 --> 00:23:40,719  
background and a UFO appeared in the

465  
00:23:36,099 --> 00:23:42,730  
photograph literally literally it was

466  
00:23:40,720 --> 00:23:46,240  
not identified I I still have no idea

467  
00:23:42,730 --> 00:23:48,870  
what it was you know with Ockham's razor

468  
00:23:46,240 --> 00:23:51,190  
we could narrow down pretty quickly

469  
00:23:48,869 --> 00:23:53,558  
strictly speaking I haven't the faintest

470  
00:23:51,190 --> 00:23:55,720  
what it is but I love the fact that that

471  
00:23:53,558 --> 00:24:00,250  
you being you took the photograph of me

472  
00:23:55,720 --> 00:24:01,900  
being me and there it is thank you that

473  
00:24:00,250 --> 00:24:04,960  
was worth its weight in gold I think

474  
00:24:01,900 --> 00:24:07,870  
maybe Ben maybe that UFO was on its way

475  
00:24:04,960 --> 00:24:10,120  
to area 51 and that's what we're

476  
00:24:07,869 --> 00:24:12,129  
discussing with you today because it's

477  
00:24:10,119 --> 00:24:13,979  
come to my attention and this is getting

478  
00:24:12,130 --> 00:24:17,830  
a lot of lot of traction on the internet

479  
00:24:13,980 --> 00:24:19,599  
that what started out as probably a joke

480  
00:24:17,829 --> 00:24:23,500  
has seemed to have grown into something

481  
00:24:19,599 --> 00:24:27,178  
much more and this involves supposedly a

482  
00:24:23,500 --> 00:24:29,829  
million people turning up at area 51 to

483  
00:24:27,179 --> 00:24:31,900  
land evidence of aliens now there's so

484  
00:24:29,829 --> 00:24:35,500  
many sides to this story I mean it's the

485

00:24:31,900 --> 00:24:36,820  
story that just keeps firstly from your

486  
00:24:35,500 --> 00:24:39,159  
point of view and I know you've done

487  
00:24:36,819 --> 00:24:43,928  
some research on this what what the hell

488  
00:24:39,159 --> 00:24:46,240  
is area 51 so area 51 it's a it's a

489  
00:24:43,929 --> 00:24:49,690  
place about 80 miles northwest of Las

490  
00:24:46,240 --> 00:24:52,659  
Vegas the base itself is relatively

491  
00:24:49,690 --> 00:24:56,019  
small it's of course a Air Force Base

492  
00:24:52,659 --> 00:24:58,570  
among other things but of more interest

493  
00:24:56,019 --> 00:25:02,500  
in some ways it is the restricted area

494  
00:24:58,569 --> 00:25:05,259  
around it which is covers over 90,000

495  
00:25:02,500 --> 00:25:07,450  
acres so it's a pretty small base but a

496  
00:25:05,259 --> 00:25:11,349  
lot of a live train you're not allowed

497  
00:25:07,450 --> 00:25:14,048  
to go over and it began the 1950s is a

498  
00:25:11,349 --> 00:25:16,089  
place to test you to spy planes and it's

499  
00:25:14,048 --> 00:25:18,579

mostly conspiracy theorists

500

00:25:16,089 --> 00:25:21,369

and of course the media who call it area

501

00:25:18,579 --> 00:25:23,129

51 that's that is that is not the

502

00:25:21,369 --> 00:25:26,589

official name the official name is

503

00:25:23,130 --> 00:25:28,750

Nevada test and training range all right

504

00:25:26,589 --> 00:25:31,178

part of the Edwards which is formally

505

00:25:28,750 --> 00:25:33,940

Nellis Air Force Base so if someone is

506

00:25:31,179 --> 00:25:36,370

is referring to area 51 then it's

507

00:25:33,940 --> 00:25:38,798

specifically because of the associations

508

00:25:36,369 --> 00:25:40,959

with you know alien hidden craft and

509

00:25:38,798 --> 00:25:42,879

things like that no did somebody make up

510

00:25:40,960 --> 00:25:46,028

this designation or is there some sort

511

00:25:42,880 --> 00:25:48,970

of map reference that refers to well

512

00:25:46,028 --> 00:25:53,079

that's actually a good question it said

513

00:25:48,970 --> 00:25:56,140

that the the idea behind the name from

514  
00:25:53,079 --> 00:25:59,048  
area 51 came from early Maps although

515  
00:25:56,140 --> 00:26:01,870  
it's not it's not really clear the

516  
00:25:59,048 --> 00:26:08,528  
airspace above area 51 is known as our

517  
00:26:01,869 --> 00:26:10,058  
48 Oh 8 at oh so so there's that that

518  
00:26:08,528 --> 00:26:12,220  
doesn't that doesn't exactly roll off

519  
00:26:10,058 --> 00:26:14,349  
the tongue like area it does not it

520  
00:26:12,220 --> 00:26:17,339  
sounds much more exciting and sexy and

521  
00:26:14,349 --> 00:26:19,509  
mysterious to say area 51 yeah yeah

522  
00:26:17,339 --> 00:26:23,459  
basically speaking we're talking about a

523  
00:26:19,509 --> 00:26:26,470  
US government installation for testing

524  
00:26:23,460 --> 00:26:30,130  
various things and this is hardly

525  
00:26:26,470 --> 00:26:32,319  
shocking or surprising is it right this

526  
00:26:30,130 --> 00:26:35,020  
is this is this is what I found so so

527  
00:26:32,319 --> 00:26:37,569  
amusing about the area 51 story is that

528  
00:26:35,019 --> 00:26:39,788  
it is according to the Air Force and

529  
00:26:37,569 --> 00:26:41,829  
I'll just quote here briefly the

530  
00:26:39,788 --> 00:26:44,259  
facility's purpose is as follows quote

531  
00:26:41,829 --> 00:26:46,808  
the testing of technologies and systems

532  
00:26:44,259 --> 00:26:48,908  
training for operations critical to the

533  
00:26:46,808 --> 00:26:52,058  
effectiveness of US military forces and

534  
00:26:48,909 --> 00:26:56,020  
security of the United States yeah so

535  
00:26:52,058 --> 00:26:58,950  
it's a not so secret military base it is

536  
00:26:56,019 --> 00:27:02,619  
one of one of many military bases

537  
00:26:58,950 --> 00:27:03,940  
operated around the world by various

538  
00:27:02,619 --> 00:27:07,449  
countries there's nothing particularly

539  
00:27:03,940 --> 00:27:08,798  
unusual or weird about that that's you

540  
00:27:07,450 --> 00:27:11,528  
know if you're a government and you have

541  
00:27:08,798 --> 00:27:14,079  
military per ticket

542

00:27:11,528 --> 00:27:17,259  
then you need a place to test those

543  
00:27:14,079 --> 00:27:19,058  
aircraft that doesn't mean you're hiding

544  
00:27:17,259 --> 00:27:21,339  
alien bodies it doesn't mean anything

545  
00:27:19,058 --> 00:27:23,829  
nefarious it just means that you need a

546  
00:27:21,339 --> 00:27:27,990  
place to test aircraft preferably away

547  
00:27:23,829 --> 00:27:29,889  
from places where say for example

548  
00:27:27,990 --> 00:27:31,509  
enemies might

549  
00:27:29,890 --> 00:27:33,520  
might want to videotape to know what

550  
00:27:31,509 --> 00:27:35,470  
you're developing oh so far been you're

551  
00:27:33,519 --> 00:27:38,619  
just making far too much sense I mean

552  
00:27:35,470 --> 00:27:40,960  
that okay so a large government the

553  
00:27:38,619 --> 00:27:43,539  
United States China Russia Australia who

554  
00:27:40,960 --> 00:27:46,840  
cares has an area within their borders

555  
00:27:43,539 --> 00:27:48,970  
for testing equipment testing things

556  
00:27:46,839 --> 00:27:50,409

there are certain secrets of course like

557

00:27:48,970 --> 00:27:52,930

all countries you don't want your

558

00:27:50,410 --> 00:27:54,009

potential enemies knowing exactly what

559

00:27:52,930 --> 00:27:56,740

what you're up to

560

00:27:54,009 --> 00:28:00,519

so so far there's just it's gobsmacking

561

00:27:56,740 --> 00:28:03,609

ly boring in a way isn't it it really is

562

00:28:00,519 --> 00:28:05,769

you know what's another thing about era

563

00:28:03,609 --> 00:28:07,809

if you want is that because it has had

564

00:28:05,769 --> 00:28:10,029

this this sort of mythology grow around

565

00:28:07,809 --> 00:28:14,079

it associated with aliens and UFOs and

566

00:28:10,029 --> 00:28:16,539

what not doing largely in part to to the

567

00:28:14,079 --> 00:28:20,139

the stories of a man named Bob Lazar who

568

00:28:16,539 --> 00:28:22,059

in the 1980s went anonymously on a TV

569

00:28:20,140 --> 00:28:24,250

show and of course when you go in on in

570

00:28:22,059 --> 00:28:27,190

the sea there's red flags right there

571  
00:28:24,250 --> 00:28:34,630  
but he went on a TV show in in

572  
00:28:27,190 --> 00:28:37,480  
silhouette codenamed Dennis yeah and he

573  
00:28:34,630 --> 00:28:40,690  
said was yeah he said it was there and

574  
00:28:37,480 --> 00:28:44,170  
he had all these stories of flying

575  
00:28:40,690 --> 00:28:48,309  
saucers and and 342 foot tall alien

576  
00:28:44,170 --> 00:28:52,029  
bodies and these really dramatic sort of

577  
00:28:48,309 --> 00:28:56,769  
heroic you know dodging security guards

578  
00:28:52,029 --> 00:28:58,420  
and finding out the truth and Lazar at

579  
00:28:56,769 --> 00:29:01,150  
this point is pretty well discredited I

580  
00:28:58,420 --> 00:29:04,060  
mean both by skeptics and believers have

581  
00:29:01,150 --> 00:29:05,470  
looked into his story and there's just

582  
00:29:04,059 --> 00:29:08,309  
nothing to it he lied about his

583  
00:29:05,470 --> 00:29:11,049  
background he claimed that he had

584  
00:29:08,309 --> 00:29:13,329  
degrees from MIT they never heard of him

585  
00:29:11,049 --> 00:29:16,210  
it's just so the whole thing fell apart

586  
00:29:13,329 --> 00:29:17,710  
but the story stuck so it just sounds

587  
00:29:16,210 --> 00:29:19,809  
like somebody was just after a little

588  
00:29:17,710 --> 00:29:23,230  
publicity or notoriety or the media

589  
00:29:19,809 --> 00:29:25,599  
thought they smelled a good story yeah

590  
00:29:23,230 --> 00:29:27,789  
and again it just it just stuck and so

591  
00:29:25,599 --> 00:29:32,139  
it's it's it has become incorporated

592  
00:29:27,789 --> 00:29:34,899  
into of course alien lore and also of

593  
00:29:32,140 --> 00:29:37,420  
course the area 51 being Nevada I'm here

594  
00:29:34,900 --> 00:29:41,830  
in New Mexico as you know yeah and here

595  
00:29:37,420 --> 00:29:43,539  
we have Roswell so there's lots of

596  
00:29:41,829 --> 00:29:46,329  
conspiracy theories about

597  
00:29:43,539 --> 00:29:50,710  
the the bodies that crashed at Roswell

598  
00:29:46,329 --> 00:29:55,089  
were taken to area 51 and who knows

599

00:29:50,710 --> 00:29:59,289  
cut open or bread or yeah now it's

600  
00:29:55,089 --> 00:30:01,599  
interesting because as we know Roswell

601  
00:29:59,289 --> 00:30:04,149  
itself this quite an industry of UFOs

602  
00:30:01,599 --> 00:30:05,829  
even even stretching as far as

603  
00:30:04,150 --> 00:30:08,050  
Albuquerque because when I was in

604  
00:30:05,829 --> 00:30:10,659  
Albuquerque visiting you I could easily

605  
00:30:08,049 --> 00:30:12,909  
find UFO paraphernalia or UFO shot

606  
00:30:10,660 --> 00:30:13,650  
glasses and alien dice from the airport

607  
00:30:12,910 --> 00:30:16,960  
and whatnot

608  
00:30:13,650 --> 00:30:19,390  
t-shirts Roswell I'm sure is just

609  
00:30:16,960 --> 00:30:21,970  
teeming with the souvenirs and alien

610  
00:30:19,390 --> 00:30:24,130  
theme things but I note there's a little

611  
00:30:21,970 --> 00:30:27,309  
town called Rachel which is near area 51

612  
00:30:24,130 --> 00:30:32,110  
which also does a fabulous trade in

613  
00:30:27,309 --> 00:30:34,539

aliens and UFOs absolutely and I've been

614

00:30:32,109 --> 00:30:36,969

there I've been again you can't go you

615

00:30:34,539 --> 00:30:39,849

can't actually go on to area 51 without

616

00:30:36,970 --> 00:30:41,500

without a government clearance you know

617

00:30:39,849 --> 00:30:43,569

there are there are armed guards there

618

00:30:41,500 --> 00:30:46,529

are buried

619

00:30:43,569 --> 00:30:49,689

tracers there's cameras there's security

620

00:30:46,529 --> 00:30:51,160

fences in some places buried motion

621

00:30:49,690 --> 00:30:53,500

sensors things like that and there are

622

00:30:51,160 --> 00:30:56,529

signs that I believe I'm not skeptical

623

00:30:53,500 --> 00:30:59,109

of these this say that Security's you is

624

00:30:56,529 --> 00:31:00,279

authorized to use deadly force again

625

00:30:59,109 --> 00:31:02,649

they're not they're not being cute

626

00:31:00,279 --> 00:31:05,319

they're they're guarding potentially

627

00:31:02,650 --> 00:31:07,150

important national secrets so you know

628  
00:31:05,319 --> 00:31:09,730  
that's that's that's what they do there

629  
00:31:07,150 --> 00:31:13,180  
and if you know 1.2 million Yahoo's on

630  
00:31:09,730 --> 00:31:16,539  
Facebook decide they want to go and go

631  
00:31:13,180 --> 00:31:18,789  
in store marry 51 more power to you I

632  
00:31:16,539 --> 00:31:21,369  
want to see this yeah well the thing

633  
00:31:18,789 --> 00:31:23,500  
about this this whole storming of area

634  
00:31:21,369 --> 00:31:25,629  
51 and and all these people signing up

635  
00:31:23,500 --> 00:31:27,579  
our reporter may not made a good point

636  
00:31:25,630 --> 00:31:33,310  
that if a million people say they'll

637  
00:31:27,579 --> 00:31:36,929  
come to an event seven turn up and two

638  
00:31:33,309 --> 00:31:39,909  
of them elastic that's right and

639  
00:31:36,930 --> 00:31:42,610  
somebody made an interesting comment

640  
00:31:39,910 --> 00:31:44,080  
about the logistics saying you know you

641  
00:31:42,609 --> 00:31:46,089  
get a certain amount of people on that

642  
00:31:44,079 --> 00:31:48,189  
Highway anyway it turns into a traffic a

643  
00:31:46,089 --> 00:31:49,720  
traffic jam where are people going to

644  
00:31:48,190 --> 00:31:52,720  
stay what are they going to eat what are

645  
00:31:49,720 --> 00:31:54,789  
the bathroom facilities it's like a UFO

646  
00:31:52,720 --> 00:31:56,980  
version of the fire festival this fiasco

647  
00:31:54,789 --> 00:31:57,369  
waiting to happen a fiasco waiting to

648  
00:31:56,980 --> 00:31:59,470  
happen

649  
00:31:57,369 --> 00:32:02,469  
does turn into something of an absurdity

650  
00:31:59,470 --> 00:32:04,839  
but it sort of raises another broader

651  
00:32:02,470 --> 00:32:08,170  
issue about conspiracy theorist and and

652  
00:32:04,839 --> 00:32:09,819  
largely you know maybe we're all guilty

653  
00:32:08,170 --> 00:32:11,500  
of writing them off too quickly I was

654  
00:32:09,819 --> 00:32:14,859  
just saying what the how silly how can

655  
00:32:11,500 --> 00:32:17,170  
people believe this but potentially

656

00:32:14,859 --> 00:32:19,479  
these bizarre wacky conspiracy theories

657  
00:32:17,170 --> 00:32:22,000  
can have real-world consequences

658  
00:32:19,480 --> 00:32:23,980  
especially if people get it in their

659  
00:32:22,000 --> 00:32:27,039  
heads that they can actually storm area

660  
00:32:23,980 --> 00:32:29,160  
51 yeah you're exactly right I mean and

661  
00:32:27,039 --> 00:32:32,558  
you know with with something like this

662  
00:32:29,160 --> 00:32:34,090  
you know it's it's hard to it's hard to

663  
00:32:32,558 --> 00:32:36,549  
really know how people are interpreting

664  
00:32:34,089 --> 00:32:39,039  
it I mean in most cases from what I can

665  
00:32:36,549 --> 00:32:40,149  
tell most people recognize it's a joke

666  
00:32:39,039 --> 00:32:42,369  
you know

667  
00:32:40,150 --> 00:32:44,290  
it's it's an Appa it's a perfect

668  
00:32:42,369 --> 00:32:47,739  
opportunity to make funny memes you know

669  
00:32:44,289 --> 00:32:50,678  
aliens you know being freed by stoners

670  
00:32:47,740 --> 00:32:54,069

yeah desert I mean it's perfect fodder

671

00:32:50,679 --> 00:32:55,660

for comedy but inevitably there will

672

00:32:54,069 --> 00:32:58,089

probably be a few people because you

673

00:32:55,660 --> 00:33:02,710

know there's nuts everywhere who like

674

00:32:58,089 --> 00:33:04,329

yeah man no this is real who knows well

675

00:33:02,710 --> 00:33:08,140

that's that's another interesting point

676

00:33:04,329 --> 00:33:10,689

because even if things put out as a joke

677

00:33:08,140 --> 00:33:14,309

I'm gonna be at Flat Earth or the moon

678

00:33:10,690 --> 00:33:16,840

landing hoax or area 51 in a huge

679

00:33:14,308 --> 00:33:19,089

population like the United States there

680

00:33:16,839 --> 00:33:22,000

will be a tiny percentage of people who

681

00:33:19,089 --> 00:33:23,470

take it very very seriously and because

682

00:33:22,000 --> 00:33:25,179

of the huge population that tiny

683

00:33:23,470 --> 00:33:29,019

percentage could run into thousands of

684

00:33:25,179 --> 00:33:32,019

people that's true and and I have to say

685  
00:33:29,019 --> 00:33:35,170  
that having dealt with some of these

686  
00:33:32,019 --> 00:33:38,920  
people some of the most really nasty

687  
00:33:35,170 --> 00:33:41,920  
aggressive vehement believers that I've

688  
00:33:38,920 --> 00:33:44,620  
come across are our conspiracy theorists

689  
00:33:41,920 --> 00:33:47,500  
and in particular UFO folks and part of

690  
00:33:44,619 --> 00:33:49,349  
the idea behind it is they're angry in

691  
00:33:47,500 --> 00:33:52,359  
many cases they sincerely believe that

692  
00:33:49,349 --> 00:33:54,399  
you are hiding the truth and you're you

693  
00:33:52,359 --> 00:33:58,000  
as a skeptic are sort of towing the

694  
00:33:54,400 --> 00:34:00,280  
government's line how dare you you'll

695  
00:33:58,000 --> 00:34:02,619  
help shield the knowledge that humanity

696  
00:34:00,279 --> 00:34:04,450  
is due of regarding you know alien

697  
00:34:02,619 --> 00:34:06,939  
contact or bodies we're outs and so they

698  
00:34:04,450 --> 00:34:08,590  
they believe that their causes just and

699  
00:34:06,940 --> 00:34:10,579  
they they they sincerely believe that

700  
00:34:08,590 --> 00:34:11,809  
that you know there's

701  
00:34:10,579 --> 00:34:13,309  
these aliens and bodies in this

702  
00:34:11,809 --> 00:34:16,610  
technology that there's all this be

703  
00:34:13,309 --> 00:34:18,159  
cover up and they get very angry when

704  
00:34:16,610 --> 00:34:20,870  
they when they think that you are

705  
00:34:18,159 --> 00:34:22,940  
intentionally keeping information that

706  
00:34:20,869 --> 00:34:25,309  
they have a right to they get really

707  
00:34:22,940 --> 00:34:27,889  
really aggressive about that sometimes

708  
00:34:25,309 --> 00:34:30,409  
yes I've seen examples of that online in

709  
00:34:27,889 --> 00:34:32,750  
his various videos which are pure vile

710  
00:34:30,409 --> 00:34:35,029  
and vindictive and nasty from the these

711  
00:34:32,750 --> 00:34:37,670  
sort of people it's it's a bit of a

712  
00:34:35,030 --> 00:34:40,160  
worry and I hope if people some people

713

00:34:37,670 --> 00:34:43,159  
do turn up on mass I hope that the

714  
00:34:40,159 --> 00:34:46,009  
authorities can take a very broad view

715  
00:34:43,159 --> 00:34:48,789  
of it and and you know see it in context

716  
00:34:46,010 --> 00:34:51,890  
of maybe a bit of fun or maybe some

717  
00:34:48,789 --> 00:34:54,889  
misguided people but you know we'll sit

718  
00:34:51,889 --> 00:34:56,779  
back and see what happens now Ben as the

719  
00:34:54,889 --> 00:34:58,699  
listeners know this a lot of this

720  
00:34:56,780 --> 00:35:03,620  
episode is dedicated to the moon

721  
00:34:58,699 --> 00:35:06,289  
landings and I I was just just just old

722  
00:35:03,619 --> 00:35:07,699  
enough to have seen them for myself when

723  
00:35:06,289 --> 00:35:09,949  
they were broadcast I wasn't on the moon

724  
00:35:07,699 --> 00:35:15,139  
I saw the monster on the TV with a big

725  
00:35:09,949 --> 00:35:17,569  
broadcast I did I had a remote TV camera

726  
00:35:15,139 --> 00:35:20,150  
up there it was very handy and as

727  
00:35:17,570 --> 00:35:23,210

Australians love to say a lot of the

728

00:35:20,150 --> 00:35:25,160

images were bounced via Australia's for

729

00:35:23,210 --> 00:35:26,840

the rest of the world to to see the moon

730

00:35:25,159 --> 00:35:28,250

landings there we are that's right there

731

00:35:26,840 --> 00:35:30,289

was a there was a film called the dish

732

00:35:28,250 --> 00:35:31,969

with your choice and if people haven't

733

00:35:30,289 --> 00:35:34,009

seen that the movie called the dish it's

734

00:35:31,969 --> 00:35:36,519

all about Australia's role in the moon

735

00:35:34,010 --> 00:35:40,040

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

736

00:35:36,519 --> 00:35:43,219

light-hearted but very interesting funny

737

00:35:40,039 --> 00:35:47,269

movie but yeah someone like you growing

738

00:35:43,219 --> 00:35:49,159

up a few years behind me I guess you had

739

00:35:47,269 --> 00:35:51,110

the same sort of thing you know you as a

740

00:35:49,159 --> 00:35:53,869

little kid you would have seen images of

741

00:35:51,110 --> 00:35:57,140

the astronauts it's part of our history

742  
00:35:53,869 --> 00:35:58,940  
and then all of a sudden it seems around

743  
00:35:57,139 --> 00:36:00,170  
the year 2000 there was these people

744  
00:35:58,940 --> 00:36:03,130  
saying that we never went to the moon

745  
00:36:00,170 --> 00:36:05,659  
which took me completely by surprise

746  
00:36:03,130 --> 00:36:08,539  
yeah I felt the same way I mean it was

747  
00:36:05,659 --> 00:36:10,879  
it was so odd to me I mean I grew up in

748  
00:36:08,539 --> 00:36:13,730  
a family that appreciated science and

749  
00:36:10,880 --> 00:36:16,280  
literacy and critical thinking and these

750  
00:36:13,730 --> 00:36:17,630  
sort of things so we were we weren't you

751  
00:36:16,280 --> 00:36:19,760  
know astronomy buffs or anything it's

752  
00:36:17,630 --> 00:36:21,079  
not like you know we would gather in the

753  
00:36:19,760 --> 00:36:22,760  
backyard with a telescope or anything

754  
00:36:21,079 --> 00:36:24,259  
but I I certainly had a real

755  
00:36:22,760 --> 00:36:27,910  
appreciation

756  
00:36:24,260 --> 00:36:30,410  
and those sorts of treatments

757  
00:36:27,909 --> 00:36:33,649  
particulars and it just seemed like such

758  
00:36:30,409 --> 00:36:35,210  
a beautiful moment that all of humanity

759  
00:36:33,650 --> 00:36:39,619  
would be proud of and it was just

760  
00:36:35,210 --> 00:36:41,750  
bizarre to me to later see people coming

761  
00:36:39,619 --> 00:36:43,730  
up with these stories about how how we

762  
00:36:41,750 --> 00:36:46,519  
didn't the whole thing is a hoax and

763  
00:36:43,730 --> 00:36:48,710  
it's faked and and it was just it just

764  
00:36:46,519 --> 00:36:51,289  
seemed not only a betrayal of the

765  
00:36:48,710 --> 00:36:53,480  
genuinely amazing technological

766  
00:36:51,289 --> 00:36:57,050  
achievement that it was but just sort of

767  
00:36:53,480 --> 00:36:59,179  
a backhanded snide well you know you

768  
00:36:57,050 --> 00:37:00,470  
know judges I know better and yeah we

769  
00:36:59,179 --> 00:37:02,659  
just all right I just find it really

770

00:37:00,469 --> 00:37:05,059  
just taste well I've met quite a few

771  
00:37:02,659 --> 00:37:06,920  
people over the years who are of the

772  
00:37:05,059 --> 00:37:09,199  
opinion the moon landings were hoaxed

773  
00:37:06,920 --> 00:37:11,000  
but they have vehement about it they're

774  
00:37:09,199 --> 00:37:14,029  
passionate about it they're they're

775  
00:37:11,000 --> 00:37:16,340  
almost bordering on angry about it

776  
00:37:14,030 --> 00:37:18,080  
because they've seen some video on

777  
00:37:16,340 --> 00:37:20,840  
YouTube or they remember watching the

778  
00:37:18,079 --> 00:37:23,389  
conspiracy theory show put out by Fox

779  
00:37:20,840 --> 00:37:24,950  
and to them suddenly it all makes sense

780  
00:37:23,389 --> 00:37:31,039  
and of course the moon landings were

781  
00:37:24,949 --> 00:37:33,589  
faked and I've spent time with them and

782  
00:37:31,039 --> 00:37:34,909  
point by point when they've said what

783  
00:37:33,590 --> 00:37:36,559  
about this what about this and I said

784  
00:37:34,909 --> 00:37:38,029

well that's because of this is happening

785

00:37:36,559 --> 00:37:40,969

in the stars and because of this reason

786

00:37:38,030 --> 00:37:42,800

when we go on and they're still not

787

00:37:40,969 --> 00:37:45,439

convinced it's just it's really nothing

788

00:37:42,800 --> 00:37:47,660

will convince some people it's it's an

789

00:37:45,440 --> 00:37:51,710

adventure a bizarre adventure in the

790

00:37:47,659 --> 00:37:53,980

psychology it is and you know I had the

791

00:37:51,710 --> 00:37:57,108

same experience with flat-earthers

792

00:37:53,980 --> 00:37:58,789

here and here in Albuquerque a few

793

00:37:57,108 --> 00:38:01,069

months back for our local skeptics group

794

00:37:58,789 --> 00:38:02,719

we had a a genuine flat earther it was

795

00:38:01,070 --> 00:38:05,180

apparently not trawling he seemed very

796

00:38:02,719 --> 00:38:07,250

sincere about it and it just fascinate

797

00:38:05,179 --> 00:38:08,659

him speak it was a skeptic group but

798

00:38:07,250 --> 00:38:10,550

everyone was very respectful and this

799

00:38:08,659 --> 00:38:13,519

and that and we let him talk for an hour

800

00:38:10,550 --> 00:38:15,980

and change but it was just sort of like

801

00:38:13,519 --> 00:38:18,199

all the points that he made up you know

802

00:38:15,980 --> 00:38:21,170

we would politely you know discuss it

803

00:38:18,199 --> 00:38:22,489

and refute it and he just would not he

804

00:38:21,170 --> 00:38:25,000

wouldn't budge it's just like you know

805

00:38:22,489 --> 00:38:27,919

well you know that's just your science

806

00:38:25,000 --> 00:38:30,590

as opposed to your science who's whose

807

00:38:27,920 --> 00:38:33,200

science are we implementing here there

808

00:38:30,590 --> 00:38:35,510

was just bizarre it is it is and it's

809

00:38:33,199 --> 00:38:37,669

and skeptics can fall into the trap of

810

00:38:35,510 --> 00:38:38,000

getting very short with these people or

811

00:38:37,670 --> 00:38:42,590

in

812

00:38:38,000 --> 00:38:45,289

or or even the trap of continuing to try

813  
00:38:42,590 --> 00:38:47,210  
and convince them and I've learned after

814  
00:38:45,289 --> 00:38:48,349  
a while it's alright it's alright these

815  
00:38:47,210 --> 00:38:50,539  
people are going to keep on believing

816  
00:38:48,349 --> 00:38:53,799  
this you've got better things to do with

817  
00:38:50,539 --> 00:38:56,239  
your time you educate other people or

818  
00:38:53,800 --> 00:38:58,220  
whatever it is or play tiddlywinks or

819  
00:38:56,239 --> 00:39:00,319  
something there is a point there is a

820  
00:38:58,219 --> 00:39:02,149  
point where you just have to say thank

821  
00:39:00,320 --> 00:39:04,490  
you for your time it's yet it's

822  
00:39:02,150 --> 00:39:06,019  
diminishing returns and you know and you

823  
00:39:04,489 --> 00:39:08,089  
and I have both encountered that over

824  
00:39:06,019 --> 00:39:10,219  
the of the long time we've been doing it

825  
00:39:08,090 --> 00:39:12,559  
at first it was you know I would say

826  
00:39:10,219 --> 00:39:15,619  
maybe 10 12 years ago I would go ahead

827

00:39:12,559 --> 00:39:17,539  
and engage until until I was you know

828  
00:39:15,619 --> 00:39:19,670  
was trying to get them to to to

829  
00:39:17,539 --> 00:39:20,869  
recognize what I was saying and finally

830  
00:39:19,670 --> 00:39:22,670  
I just realized like you said I mean

831  
00:39:20,869 --> 00:39:24,829  
this is not I don't care I'm gonna sleep

832  
00:39:22,670 --> 00:39:26,960  
fine either way tonight so whether this

833  
00:39:24,829 --> 00:39:29,239  
person gets it or not or they recognize

834  
00:39:26,960 --> 00:39:31,429  
it you know I can only do so much

835  
00:39:29,239 --> 00:39:33,349  
yeah and you could just you just got to

836  
00:39:31,429 --> 00:39:34,849  
walk away just like that cartoon I can't

837  
00:39:33,349 --> 00:39:39,769  
go to bed somebody is wrong on the

838  
00:39:34,849 --> 00:39:42,170  
Internet well Ben Radford thank you very

839  
00:39:39,769 --> 00:39:46,159  
much for your insights about area 51

840  
00:39:42,170 --> 00:39:48,320  
maybe one day you and I can visit do a

841  
00:39:46,159 --> 00:39:50,389

big trip we can start off in Roswell and

842

00:39:48,320 --> 00:39:53,600

then follow the alien trail to reach or

843

00:39:50,389 --> 00:39:54,409

near area 51 and eat alien burgers and

844

00:39:53,599 --> 00:39:56,329

have a good time

845

00:39:54,409 --> 00:39:57,710

that will be delightful I would look

846

00:39:56,329 --> 00:40:00,069

forward to it me too

847

00:39:57,710 --> 00:40:02,449

but for now Ben Radford all the way from

848

00:40:00,070 --> 00:40:04,460

Albuquerque New Mexico and don't forget

849

00:40:02,449 --> 00:40:06,019

folks to listen to Ben's podcast

850

00:40:04,460 --> 00:40:09,019

squaring the strange he does with

851

00:40:06,019 --> 00:40:11,659

Pasquale and Celestia a great podcast I

852

00:40:09,019 --> 00:40:13,969

enjoy listening to it every couple of

853

00:40:11,659 --> 00:40:17,500

weeks but for now Ben Radford thank you

854

00:40:13,969 --> 00:40:17,500

very much thank you

855

00:40:24,389 --> 00:40:29,518

hey fellow skeptics in Medford here with

856  
00:40:27,389 --> 00:40:31,469  
Celeste reward your friendly host of

857  
00:40:29,518 --> 00:40:33,419  
starting the strange a podcast that

858  
00:40:31,469 --> 00:40:35,818  
looks at topics ranging from legends

859  
00:40:33,420 --> 00:40:38,039  
panics and cryptids to 80 myths

860  
00:40:35,818 --> 00:40:40,108  
psychology and folklore breaking things

861  
00:40:38,039 --> 00:40:42,210  
down and picking things apart as we

862  
00:40:40,108 --> 00:40:44,518  
skeptics do we bring a few different

863  
00:40:42,210 --> 00:40:46,980  
perspectives on things Celestia for

864  
00:40:44,518 --> 00:40:48,088  
example is a witty cartoonist and Ben is

865  
00:40:46,980 --> 00:40:50,338  
a brilliant writer and longtime

866  
00:40:48,088 --> 00:40:52,739  
skeptical investigator we don't always

867  
00:40:50,338 --> 00:40:54,808  
agree but we have fun trying and we

868  
00:40:52,739 --> 00:40:57,659  
learn new things join us for new topics

869  
00:40:54,809 --> 00:40:59,940  
every week or two or browse our backlog

870  
00:40:57,659 --> 00:41:02,518  
of evergreen episodes available on

871  
00:40:59,940 --> 00:41:04,980  
iTunes and all your podcast feeding

872  
00:41:02,518 --> 00:41:07,548  
troughs squaring the strange take care

873  
00:41:04,980 --> 00:41:07,548  
of strangers

874  
00:41:10,750 --> 00:41:43,358  
I think we need to think here susan

875  
00:41:34,090 --> 00:41:46,240  
gerbic hello skeptic zone listeners this

876  
00:41:43,358 --> 00:41:47,980  
is susan gerbic in Salinas California I

877  
00:41:46,239 --> 00:41:49,449  
have a real treat for you I have a

878  
00:41:47,980 --> 00:41:52,240  
couple really great friends that are

879  
00:41:49,449 --> 00:41:55,929  
here from Brazil that I met at saikhan

880  
00:41:52,239 --> 00:41:57,309  
in 2018 I wanted to share with you some

881  
00:41:55,929 --> 00:42:00,730  
conversations we're having about what

882  
00:41:57,309 --> 00:42:01,900  
they're doing in San Paulo Brazil and a

883  
00:42:00,730 --> 00:42:03,250  
lot of the different things that are

884

00:42:01,900 --> 00:42:06,309  
happening there because I don't think

885  
00:42:03,250 --> 00:42:08,500  
they were quite aware of the the

886  
00:42:06,309 --> 00:42:11,259  
craziness is happening with alternative

887  
00:42:08,500 --> 00:42:13,539  
medicine there hi everyone thanks Susan

888  
00:42:11,260 --> 00:42:15,970  
for heaviness I'm Natalia Pasternak from

889  
00:42:13,539 --> 00:42:18,579  
Brazil I'm a microbiologist and I'm also

890  
00:42:15,969 --> 00:42:21,699  
trying to start a skeptic movement in

891  
00:42:18,579 --> 00:42:23,588  
Brazil hello this is Carlos Carlos RC

892  
00:42:21,699 --> 00:42:26,980  
I'm a Brazilian journalist and and

893  
00:42:23,588 --> 00:42:29,588  
writer and as Natalia said I'm working

894  
00:42:26,980 --> 00:42:32,650  
for a few other friends to try and build

895  
00:42:29,588 --> 00:42:35,409  
a skeptical organization and movement

896  
00:42:32,650 --> 00:42:40,230  
they explained to me that science is

897  
00:42:35,409 --> 00:42:42,759  
really popular in Brazil but not

898  
00:42:40,230 --> 00:42:44,588

skepticism and not critical thinking and

899

00:42:42,760 --> 00:42:48,460

their organization is really going to be

900

00:42:44,588 --> 00:42:50,559

focusing mostly on medical quackery what

901

00:42:48,460 --> 00:42:53,500

we call Kim complementary alternative

902

00:42:50,559 --> 00:42:56,320

medicine from what I understand the

903

00:42:53,500 --> 00:43:00,219

government has kind of sponsored a lot

904

00:42:56,320 --> 00:43:01,420

of alternative medicines and some of

905

00:43:00,219 --> 00:43:03,159

these they tell me about I've never

906

00:43:01,420 --> 00:43:04,650

heard of them some of them are the

907

00:43:03,159 --> 00:43:08,139

common ones were used to like homeopathy

908

00:43:04,650 --> 00:43:09,519

Reiki acupuncture chiropractic but

909

00:43:08,139 --> 00:43:12,309

there's some other ones in here that are

910

00:43:09,519 --> 00:43:14,409

just fascinating they're called like

911

00:43:12,309 --> 00:43:16,779

there's one called Geo therapy which is

912

00:43:14,409 --> 00:43:18,519

where you put people in mud and then

913  
00:43:16,780 --> 00:43:22,060  
there's another one that is a remedy for

914  
00:43:18,519 --> 00:43:23,800  
flowers so we launched these digital

915  
00:43:22,059 --> 00:43:24,460  
last November it's called

916  
00:43:23,800 --> 00:43:27,369  
Institute

917  
00:43:24,460 --> 00:43:30,250  
question of signs and the reason we do

918  
00:43:27,369 --> 00:43:31,930  
that is because we have all been walking

919  
00:43:30,250 --> 00:43:34,329  
with science communication for quite

920  
00:43:31,929 --> 00:43:37,539  
some time now but science communication

921  
00:43:34,329 --> 00:43:41,469  
in Brazil is very focused on the beauty

922  
00:43:37,539 --> 00:43:43,838  
of science and why science is important

923  
00:43:41,469 --> 00:43:46,358  
and please give us money so that we can

924  
00:43:43,838 --> 00:43:48,849  
do scientific research and although

925  
00:43:46,358 --> 00:43:51,730  
that's very important in this kind of

926  
00:43:48,849 --> 00:43:55,059  
work has to be done no one was looking

927  
00:43:51,730 --> 00:43:57,460  
at the other side of how science works

928  
00:43:55,059 --> 00:43:59,920  
how important scientific matter is

929  
00:43:57,460 --> 00:44:03,250  
critical thinking and skepticism and

930  
00:43:59,920 --> 00:44:04,990  
this thing's also keep science going and

931  
00:44:03,250 --> 00:44:07,269  
more than keep it going they guarantee

932  
00:44:04,989 --> 00:44:10,029  
that it's solid and it's based on

933  
00:44:07,269 --> 00:44:11,679  
evidence that's why we started Institute

934  
00:44:10,030 --> 00:44:13,990  
because no one was looking in that

935  
00:44:11,679 --> 00:44:16,629  
direction and and we really wanted to

936  
00:44:13,989 --> 00:44:18,519  
tackle that because we have lots of

937  
00:44:16,630 --> 00:44:20,349  
pseudoscience going on in Brazil and

938  
00:44:18,519 --> 00:44:22,719  
people have the impression that they are

939  
00:44:20,349 --> 00:44:24,580  
science of course they're not but no one

940  
00:44:22,719 --> 00:44:26,649  
is going through the trouble of

941

00:44:24,579 --> 00:44:29,739  
explaining to the population what

942  
00:44:26,650 --> 00:44:32,170  
science is and what it isn't and that's

943  
00:44:29,739 --> 00:44:34,719  
what we aim to do with the Institute and

944  
00:44:32,170 --> 00:44:37,539  
we are very focused in the alternative

945  
00:44:34,719 --> 00:44:40,989  
medicine practices now because we have

946  
00:44:37,539 --> 00:44:43,329  
29 practices and they call it integrity

947  
00:44:40,989 --> 00:44:46,059  
of and complementary practices but it's

948  
00:44:43,329 --> 00:44:48,579  
all just just pseudoscience and we have

949  
00:44:46,059 --> 00:44:51,039  
29 of those in our public healthcare

950  
00:44:48,579 --> 00:44:52,989  
system so it's public it's paid for with

951  
00:44:51,039 --> 00:44:54,608  
taxpayers money so one of the things

952  
00:44:52,989 --> 00:44:56,979  
that you guys have recently done is you

953  
00:44:54,608 --> 00:44:58,329  
commissioned a survey because you kind

954  
00:44:56,980 --> 00:45:02,260  
of wanted to see what is the state of

955  
00:44:58,329 --> 00:45:04,989

understanding in Brazil of pseudoscience

956

00:45:02,260 --> 00:45:08,050

especially focused on them the quackery

957

00:45:04,989 --> 00:45:10,179

the medical area and I think that the

958

00:45:08,050 --> 00:45:12,670

results that you received on that we're

959

00:45:10,179 --> 00:45:13,719

really eye-opening so Carlos do you

960

00:45:12,670 --> 00:45:15,338

think you could tell us a little bit

961

00:45:13,719 --> 00:45:17,379

about that survey what your results were

962

00:45:15,338 --> 00:45:20,608

in which you found out well we did a

963

00:45:17,380 --> 00:45:23,108

survey we asked people of questions but

964

00:45:20,608 --> 00:45:25,809

basically the most fundamental questions

965

00:45:23,108 --> 00:45:27,969

for is what do you think the government

966

00:45:25,809 --> 00:45:30,849

should offer in the public health care

967

00:45:27,969 --> 00:45:34,118

system and what do you want or do you

968

00:45:30,849 --> 00:45:36,070

use when you have health problems the

969

00:45:34,119 --> 00:45:37,000

first answer is that people wanted their

970  
00:45:36,070 --> 00:45:39,730  
the government to

971  
00:45:37,000 --> 00:45:42,250  
science and evidence-based treatments

972  
00:45:39,730 --> 00:45:45,130  
but when we ask them what kind of

973  
00:45:42,250 --> 00:45:47,679  
treatments they think our science mazed

974  
00:45:45,130 --> 00:45:49,690  
they were all over the map but people

975  
00:45:47,679 --> 00:45:52,839  
wanted on the apogee and the co

976  
00:45:49,690 --> 00:45:54,690  
punctured and all kinds of stuff and the

977  
00:45:52,840 --> 00:45:57,280  
healthcare system because they think

978  
00:45:54,690 --> 00:46:00,190  
they like it this stuff and they think

979  
00:45:57,280 --> 00:46:03,250  
it's science made so I guess that the

980  
00:46:00,190 --> 00:46:06,700  
main finding of the research the the

981  
00:46:03,250 --> 00:46:10,510  
take-home message is that people really

982  
00:46:06,699 --> 00:46:12,730  
don't know what is science-based or what

983  
00:46:10,510 --> 00:46:16,150  
makes something mean sighs may than

984  
00:46:12,730 --> 00:46:18,550  
something not be science-based that's no

985  
00:46:16,150 --> 00:46:21,010  
small task I don't even know where you

986  
00:46:18,550 --> 00:46:23,110  
would end up starting so what is it that

987  
00:46:21,010 --> 00:46:25,210  
you guys are trying to do besides I know

988  
00:46:23,110 --> 00:46:27,039  
you just started it's only been a year

989  
00:46:25,210 --> 00:46:29,019  
and one of the first things you did is

990  
00:46:27,039 --> 00:46:30,639  
you came to psych on because you wanted

991  
00:46:29,019 --> 00:46:32,349  
to meet new people and you wanted to

992  
00:46:30,639 --> 00:46:35,259  
kind of find out what's going on other

993  
00:46:32,349 --> 00:46:37,329  
people are doing Natalia and Carlos and

994  
00:46:35,260 --> 00:46:40,810  
I were up late last night talking about

995  
00:46:37,329 --> 00:46:42,190  
this as we do and one of the things we

996  
00:46:40,809 --> 00:46:44,170  
really discussed it was it is so

997  
00:46:42,190 --> 00:46:47,110  
important that we should know each other

998

00:46:44,170 --> 00:46:48,519  
in internationally I mean whether or not

999  
00:46:47,110 --> 00:46:50,260  
we're going to be able to form some kind

1000  
00:46:48,519 --> 00:46:51,789  
of organization that's international I

1001  
00:46:50,260 --> 00:46:53,560  
don't personally don't think we're there

1002  
00:46:51,789 --> 00:46:54,880  
yet but I do think that we should at

1003  
00:46:53,559 --> 00:46:57,159  
least know each other and I was

1004  
00:46:54,880 --> 00:46:59,410  
explaining to them about podcasting and

1005  
00:46:57,159 --> 00:47:00,849  
how important podcasting is and it

1006  
00:46:59,409 --> 00:47:03,609  
reaches so many people and it's so

1007  
00:47:00,849 --> 00:47:05,529  
inexpensive I'm personally hoping we're

1008  
00:47:03,610 --> 00:47:08,320  
gonna find a lot of Portuguese speaking

1009  
00:47:05,530 --> 00:47:10,810  
people who will launch podcasts that

1010  
00:47:08,320 --> 00:47:12,490  
will focus on science but really with

1011  
00:47:10,809 --> 00:47:14,949  
the skepticism and critical thinking

1012  
00:47:12,489 --> 00:47:16,629

been where the harm is especially

1013

00:47:14,949 --> 00:47:19,449

getting into this alternative medicine

1014

00:47:16,630 --> 00:47:21,760

yeah the thing that we're trying to do

1015

00:47:19,449 --> 00:47:24,849

with the Institute is try to take her to

1016

00:47:21,760 --> 00:47:27,160

different things so on one hand we want

1017

00:47:24,849 --> 00:47:29,319

to provide solid information to the

1018

00:47:27,159 --> 00:47:30,730

population to the public in an

1019

00:47:29,320 --> 00:47:33,460

accessible language that they can

1020

00:47:30,730 --> 00:47:36,369

understand without scientific jargon so

1021

00:47:33,460 --> 00:47:39,159

we started magazine very similar to

1022

00:47:36,369 --> 00:47:41,739

skeptical inquirer on the other hand we

1023

00:47:39,159 --> 00:47:43,449

have to talk to the decision-makers so

1024

00:47:41,739 --> 00:47:45,729

we have to talk to politicians we have

1025

00:47:43,449 --> 00:47:48,069

to talk to the government and then we're

1026

00:47:45,730 --> 00:47:50,559

trying to really advocate for science

1027  
00:47:48,070 --> 00:47:53,440  
and so we're trying to bring

1028  
00:47:50,559 --> 00:47:56,070  
into the Parliament in Brazil into the

1029  
00:47:53,440 --> 00:47:59,530  
Congress and try to talk to as many

1030  
00:47:56,070 --> 00:48:03,220  
congressmen and Senators as we as we can

1031  
00:47:59,530 --> 00:48:05,860  
so the magazine is an attempt to know if

1032  
00:48:03,219 --> 00:48:08,919  
you do research on this stuff and if you

1033  
00:48:05,860 --> 00:48:12,099  
dig just a little deeper you will find

1034  
00:48:08,920 --> 00:48:14,440  
our articles just explaining to you that

1035  
00:48:12,099 --> 00:48:17,559  
it's not that collagen pills won't

1036  
00:48:14,440 --> 00:48:19,450  
prevent you from aging and things like

1037  
00:48:17,559 --> 00:48:23,199  
that so one of the things I wanted to

1038  
00:48:19,449 --> 00:48:27,069  
mention is that your magazine is not

1039  
00:48:23,199 --> 00:48:28,869  
print it's online and it's free and it's

1040  
00:48:27,070 --> 00:48:31,210  
free for people it's in Portuguese and

1041  
00:48:28,869 --> 00:48:32,949  
it has an English translation as well I

1042  
00:48:31,210 --> 00:48:35,230  
want to make sure that everybody knows

1043  
00:48:32,949 --> 00:48:37,599  
how to find that and how they can reach

1044  
00:48:35,230 --> 00:48:39,340  
out to you guys if they want to be at

1045  
00:48:37,599 --> 00:48:42,369  
help if there is anybody in San Paulo

1046  
00:48:39,340 --> 00:48:44,079  
listening right now or more Portuguese

1047  
00:48:42,369 --> 00:48:46,779  
speakers who would love to work on a

1048  
00:48:44,079 --> 00:48:48,309  
podcast let's get this taken care of and

1049  
00:48:46,780 --> 00:48:50,560  
get some conferences down there and get

1050  
00:48:48,309 --> 00:48:52,659  
people active and excited and and start

1051  
00:48:50,559 --> 00:48:55,449  
building the community how would they go

1052  
00:48:52,659 --> 00:48:57,909  
about finding you guys okay so you can

1053  
00:48:55,449 --> 00:48:59,739  
find us on Facebook Institute question

1054  
00:48:57,909 --> 00:49:03,069  
of Science Institute to Keystone de

1055

00:48:59,739 --> 00:49:05,349  
ciencia in Portuguese and we go by the

1056  
00:49:03,070 --> 00:49:08,470  
same name in our website Twitter account

1057  
00:49:05,349 --> 00:49:11,409  
and Instagram account right well as if

1058  
00:49:08,469 --> 00:49:14,379  
you are at a park you speak here just

1059  
00:49:11,409 --> 00:49:17,379  
right in your browser tab TV stock is

1060  
00:49:14,380 --> 00:49:19,930  
down this en japon compound to be and

1061  
00:49:17,380 --> 00:49:26,130  
you will be there if you want up a

1062  
00:49:19,929 --> 00:49:29,409  
quicker access is iqc dot org dot BR and

1063  
00:49:26,130 --> 00:49:32,079  
the the magazine has a two foreign

1064  
00:49:29,409 --> 00:49:35,289  
languages steps when in English one in

1065  
00:49:32,079 --> 00:49:37,269  
Spanish most of the material in this in

1066  
00:49:35,289 --> 00:49:40,029  
English and in Spanish are our

1067  
00:49:37,269 --> 00:49:42,489  
editorials or opinion pieces there are a

1068  
00:49:40,030 --> 00:49:45,640  
few articles and more journalistic

1069  
00:49:42,489 --> 00:49:47,829

pieces in each of them in the English

1070

00:49:45,639 --> 00:49:50,379  
section there's my an English

1071

00:49:47,829 --> 00:49:53,139  
translation of the news story I wrote

1072

00:49:50,380 --> 00:49:56,230  
about our power survey so you can have

1073

00:49:53,139 --> 00:49:58,089  
more details there well thank you guys

1074

00:49:56,230 --> 00:50:00,039  
for listening thank you guys for

1075

00:49:58,090 --> 00:50:01,660  
visiting I really appreciate you came

1076

00:50:00,039 --> 00:50:02,690  
all the way down they had to rent a car

1077

00:50:01,659 --> 00:50:04,460  
in San Francisco

1078

00:50:02,690 --> 00:50:07,039  
drive a couple hours to come to my house

1079

00:50:04,460 --> 00:50:08,630  
and stay the night I appreciate that you

1080

00:50:07,039 --> 00:50:12,650  
guys took the time out to come and stay

1081

00:50:08,630 --> 00:50:15,200  
with us and we had some long talks Thank

1082

00:50:12,650 --> 00:50:18,380  
You skeptic zone listeners I will be in

1083

00:50:15,199 --> 00:50:21,828  
Australia in December so please come out

1084  
00:50:18,380 --> 00:50:24,680  
and a change skeptic on Australia in

1085  
00:50:21,829 --> 00:50:36,450  
Melbourne in December thanks all

1086  
00:50:24,679 --> 00:50:39,969  
[Music]

1087  
00:50:36,449 --> 00:50:42,219  
skeptic on 2019 the Australian skeptics

1088  
00:50:39,969 --> 00:50:47,889  
National Convention will be in Melbourne

1089  
00:50:42,219 --> 00:50:49,509  
from the 6th to the 8th of December we

1090  
00:50:47,889 --> 00:50:51,909  
have an impressive speaker line-up

1091  
00:50:49,509 --> 00:50:54,789  
including the skeptics guide to the

1092  
00:50:51,909 --> 00:50:58,298  
universe dr. Steve novella Jay novella

1093  
00:50:54,789 --> 00:51:01,329  
Cara Santa Maria Bob novella and Evan

1094  
00:50:58,298 --> 00:51:04,048  
Bernstein also susan gerbic from

1095  
00:51:01,329 --> 00:51:06,400  
guerrilla skepticism on wikipedia and

1096  
00:51:04,048 --> 00:51:10,179  
many other international and local

1097  
00:51:06,400 --> 00:51:13,480  
guests including Joe Thorley the host of

1098  
00:51:10,179 --> 00:51:16,710  
zealot a podcast about cults and an

1099  
00:51:13,480 --> 00:51:19,358  
author of a book by the same name

1100  
00:51:16,710 --> 00:51:21,909  
skeptical God includes a trivia night on

1101  
00:51:19,358 --> 00:51:26,139  
Thursday the 5th of December to test

1102  
00:51:21,909 --> 00:51:28,210  
your skeptical knowledge for more

1103  
00:51:26,139 --> 00:51:30,690  
information about the event the speakers

1104  
00:51:28,210 --> 00:51:32,139  
and how to buy tickets visit skeptic

1105  
00:51:30,690 --> 00:51:35,079  
on.org

1106  
00:51:32,139 --> 00:51:35,949  
au or follow the link in this week's

1107  
00:51:35,079 --> 00:51:40,210  
show notes

1108  
00:51:35,949 --> 00:51:40,210  
[Music]

1109  
00:51:48,739 --> 00:51:54,150  
thank you for listening to the skeptic

1110  
00:51:51,179 --> 00:51:58,229  
zone and thank you to all the Apollo

1111  
00:51:54,150 --> 00:51:59,849  
astronauts for for quite a ride quite a

1112

00:51:58,228 --> 00:52:03,288  
ride fifty years ago

1113  
00:51:59,849 --> 00:52:07,199  
and indeed extending right back to

1114  
00:52:03,289 --> 00:52:10,559  
Apollo one the way we remember and white

1115  
00:52:07,199 --> 00:52:12,809  
Roger Chaffee and Gus Grissom who sadly

1116  
00:52:10,559 --> 00:52:17,219  
perished on the launch pad during

1117  
00:52:12,809 --> 00:52:19,319  
testing for the Apollo missions now

1118  
00:52:17,219 --> 00:52:21,329  
later next month later in August if

1119  
00:52:19,318 --> 00:52:24,808  
you're coming to Dragon Con the Dragon

1120  
00:52:21,329 --> 00:52:27,028  
Con convention con con Convention the

1121  
00:52:24,809 --> 00:52:28,619  
dragon Convention Dragon Con in Atlanta

1122  
00:52:27,028 --> 00:52:30,989  
Georgia I'll be taking part in the

1123  
00:52:28,619 --> 00:52:32,910  
skeptic track there with my old friends

1124  
00:52:30,989 --> 00:52:36,838  
Derek Colin do know from skepticism

1125  
00:52:32,909 --> 00:52:39,088  
and dr. Angie matki and lots of other

1126  
00:52:36,838 --> 00:52:41,188

people there at Dragon Con including the

1127

00:52:39,088 --> 00:52:42,478

skeptics guide to the universe also

1128

00:52:41,188 --> 00:52:44,458

later on this year we have the New

1129

00:52:42,478 --> 00:52:46,078

Zealand skeptics National Convention I

1130

00:52:44,458 --> 00:52:48,149

hope to bring you some more information

1131

00:52:46,079 --> 00:52:50,189

about that before long and not

1132

00:52:48,150 --> 00:52:52,259

forgetting then in December the

1133

00:52:50,188 --> 00:52:55,259

Australian skeptics National Convention

1134

00:52:52,259 --> 00:52:57,358

in Melbourne with SGU susan gerbic and

1135

00:52:55,259 --> 00:52:59,130

many other guests but if you're in

1136

00:52:57,358 --> 00:53:02,278

sydney and you want some fun come along

1137

00:52:59,130 --> 00:53:04,709

to Maynard's movie night there's one on

1138

00:53:02,278 --> 00:53:06,630

the 6th of august at the red bar which

1139

00:53:04,708 --> 00:53:09,118

is in glebe at the end of Glee Point

1140

00:53:06,630 --> 00:53:10,919

Road near the Broadway it's only ten

1141  
00:53:09,119 --> 00:53:15,659  
dollars and more information for that

1142  
00:53:10,918 --> 00:53:18,629  
night can be found at Maynard com dot au

1143  
00:53:15,659 --> 00:53:20,999  
as well as information about Maenads

1144  
00:53:18,630 --> 00:53:23,818  
music nights the dance parties the Love

1145  
00:53:20,998 --> 00:53:26,399  
Shack head for Maine a calm day you for

1146  
00:53:23,818 --> 00:53:29,099  
Maine add fun information and his

1147  
00:53:26,400 --> 00:53:32,130  
podcasts and I hope to see you on the

1148  
00:53:29,099 --> 00:53:34,798  
6th of August at Maenads movie night and

1149  
00:53:32,130 --> 00:53:36,778  
thank you to those people those patreon

1150  
00:53:34,798 --> 00:53:39,989  
people and people who chip in with

1151  
00:53:36,778 --> 00:53:43,349  
paypal lots of people are chipping in

1152  
00:53:39,989 --> 00:53:46,409  
with patreon for five dollars a month

1153  
00:53:43,349 --> 00:53:49,890  
which means it's less than a dollar a

1154  
00:53:46,409 --> 00:53:52,798  
week less than a dollar a week to enjoy

1155  
00:53:49,889 --> 00:53:56,368  
the skeptic zone that really is just

1156  
00:53:52,798 --> 00:54:00,059  
spare pocket change and if you think you

1157  
00:53:56,369 --> 00:54:03,240  
can spare less than a dollar a week

1158  
00:54:00,059 --> 00:54:04,860  
since beer cents a week for the sceptic

1159  
00:54:03,239 --> 00:54:07,879  
zone I would really appreciate it and so

1160  
00:54:04,860 --> 00:54:11,130  
would all the skeptics own reporters and

1161  
00:54:07,880 --> 00:54:12,990  
maybe more importantly the thousands of

1162  
00:54:11,130 --> 00:54:15,090  
people around the world who continue to

1163  
00:54:12,989 --> 00:54:16,649  
enjoy the skeptic zone now if you're

1164  
00:54:15,090 --> 00:54:19,200  
listening to the skeptic zone for free

1165  
00:54:16,650 --> 00:54:22,289  
without being a patreon or PayPal that's

1166  
00:54:19,199 --> 00:54:24,000  
fine I'm delighted

1167  
00:54:22,289 --> 00:54:25,440  
I really am pleased that you're

1168  
00:54:24,000 --> 00:54:29,039  
listening to the show but if you feel

1169

00:54:25,440 --> 00:54:30,900  
that your enjoyment of the show what you

1170  
00:54:29,039 --> 00:54:33,719  
get out of it the company it gives you

1171  
00:54:30,900 --> 00:54:35,639  
on those long drives those walks yes I'm

1172  
00:54:33,719 --> 00:54:37,469  
talking to you on that long walk now

1173  
00:54:35,639 --> 00:54:40,769  
with the dog or you in the car

1174  
00:54:37,469 --> 00:54:43,619  
you on the bus you on the train doing

1175  
00:54:40,769 --> 00:54:47,159  
the dishes mowing the lawn whatever

1176  
00:54:43,619 --> 00:54:50,279  
you're doing if I'm providing you

1177  
00:54:47,159 --> 00:54:53,789  
entertainment and some companionship and

1178  
00:54:50,280 --> 00:54:55,710  
interest then I hope you'll I hope

1179  
00:54:53,789 --> 00:54:58,079  
you'll think that the show is worth less

1180  
00:54:55,710 --> 00:55:01,260  
than a dollar a week to you anyway go to

1181  
00:54:58,079 --> 00:55:03,989  
skeptic zone TV and find out more about

1182  
00:55:01,260 --> 00:55:06,420  
becoming a patreon you know leave view

1183  
00:55:03,989 --> 00:55:11,419

of this thought that I sincerely hope

1184

00:55:06,420 --> 00:55:16,170

that sometime within the next 10 years

1185

00:55:11,420 --> 00:55:19,559

that there are more moon missions I was

1186

00:55:16,170 --> 00:55:21,420

really too young to appreciate those the

1187

00:55:19,559 --> 00:55:24,539

moon missions of the late 60s early 70s

1188

00:55:21,420 --> 00:55:27,630

and personally I would think that would

1189

00:55:24,539 --> 00:55:31,050

be so exciting with today's technology

1190

00:55:27,630 --> 00:55:33,720

and high def cameras and what-have-you

1191

00:55:31,050 --> 00:55:35,340

to see people back on the moon and I

1192

00:55:33,719 --> 00:55:38,549

wouldn't be surprised if it's another

1193

00:55:35,340 --> 00:55:40,710

country who gets there next we'll see

1194

00:55:38,550 --> 00:55:43,230

but for this week from Sydney Australia

1195

00:55:40,710 --> 00:55:45,349

maybe it will be Australia yes the

1196

00:55:43,230 --> 00:55:47,909

Australian space force off to the moon

1197

00:55:45,349 --> 00:55:51,589

any volunteers this is Richard Saunders

1198  
00:55:47,909 --> 00:55:51,589  
signing off from Sydney Australia

1199  
00:55:53,219 --> 00:55:59,429  
you've been listening to the skeptic

1200  
00:55:55,750 --> 00:56:04,420  
zone podcast please visit our website at

1201  
00:55:59,429 --> 00:56:07,239  
WWDC be for show notes contacts and to

1202  
00:56:04,420 --> 00:56:10,869  
access the bat catalog of episodes going

1203  
00:56:07,239 --> 00:56:13,679  
back to 2008 you can follow the skeptic

1204  
00:56:10,869 --> 00:56:16,420  
zone podcast on twitter at skeptic zone

1205  
00:56:13,679 --> 00:56:19,899  
visit our facebook page or leave a

1206  
00:56:16,420 --> 00:56:22,809  
review on itunes you can also support

1207  
00:56:19,900 --> 00:56:25,240  
the skeptic zone via patreon or PayPal

1208  
00:56:22,809 --> 00:56:27,909  
the skeptic zone podcast is an

1209  
00:56:25,239 --> 00:56:29,739  
independent production reviews and

1210  
00:56:27,909 --> 00:56:31,989  
opinions expressed on the skeptic zone

1211  
00:56:29,739 --> 00:56:34,539  
are not necessarily those of Australian

1212  
00:56:31,989 --> 00:56:35,449  
skeptics or any other skeptical

1213  
00:56:34,539 --> 00:56:43,090  
organization

1214  
00:56:35,449 --> 00:56:43,089  
[Music]

1215  
00:56:46,750 --> 00:56:51,769  
hello people who listen after the music

1216  
00:56:49,340 --> 00:56:54,800  
the afterthoughts I'm still on the line

1217  
00:56:51,769 --> 00:56:57,739  
by weird technology maybe from the

1218  
00:56:54,800 --> 00:56:59,269  
aliens with Ben Radford hello Ben

1219  
00:56:57,739 --> 00:57:01,869  
we're gonna play the dice game again and

1220  
00:56:59,269 --> 00:57:05,150  
I'm gonna use my lovely alien die from

1221  
00:57:01,869 --> 00:57:05,659  
Albuquerque you are I got a good feeling

1222  
00:57:05,150 --> 00:57:07,639  
about this

1223  
00:57:05,659 --> 00:57:10,250  
he's got a good feeling it's only six

1224  
00:57:07,639 --> 00:57:12,769  
sided but each side has either UFOs or

1225  
00:57:10,250 --> 00:57:15,139  
aliens or alien eyes it's quite cute and

1226

00:57:12,769 --> 00:57:17,210  
they glow in the dark boy this is this

1227  
00:57:15,139 --> 00:57:19,250  
is this is quite a set of guidelines

1228  
00:57:17,210 --> 00:57:22,460  
word no I certainly did

1229  
00:57:19,250 --> 00:57:24,469  
okay I'm gonna roll the six-sided die

1230  
00:57:22,460 --> 00:57:27,860  
here folks everybody out there use your

1231  
00:57:24,469 --> 00:57:29,959  
predicting powers and think what number

1232  
00:57:27,860 --> 00:57:33,740  
will come up and you'll have to trust my

1233  
00:57:29,960 --> 00:57:37,610  
honesty I am I every week I do say what

1234  
00:57:33,739 --> 00:57:40,369  
the faces of the the diet Ben would you

1235  
00:57:37,610 --> 00:57:43,579  
care to hazard a guess what number comes

1236  
00:57:40,369 --> 00:57:45,409  
up first I'm getting it - you getting a

1237  
00:57:43,579 --> 00:57:53,139  
- all right here we go

1238  
00:57:45,409 --> 00:57:56,629  
here we go 5 mmm okay well I to be fair

1239  
00:57:53,139 --> 00:57:59,150  
it's only up by three that's pretty

1240  
00:57:56,630 --> 00:58:01,430

close we'll try it again

1241  
00:57:59,150 --> 00:58:02,750  
come on aliens everywhere here we go

1242  
00:58:01,429 --> 00:58:05,210  
maybe the aliens are listening and

1243  
00:58:02,750 --> 00:58:08,599  
predicting okay okay oh no no sorry you

1244  
00:58:05,210 --> 00:58:10,699  
have to call it first um six ain't

1245  
00:58:08,599 --> 00:58:14,889  
getting a six getting a six here we go

1246  
00:58:10,699 --> 00:58:18,439  
no fell off the table damn it we go

1247  
00:58:14,889 --> 00:58:21,170  
four okay now it would have been it

1248  
00:58:18,440 --> 00:58:22,490  
would have been a sick either would have

1249  
00:58:21,170 --> 00:58:23,780  
been a six of course I it would have

1250  
00:58:22,489 --> 00:58:25,339  
been just just you understand it

1251  
00:58:23,780 --> 00:58:29,090  
would've been a six but since anyway

1252  
00:58:25,340 --> 00:58:30,079  
that's okay what am I thinking okay last

1253  
00:58:29,090 --> 00:58:35,840  
one here we go

1254  
00:58:30,079 --> 00:58:42,949  
what do you say three three okay here we

1255  
00:58:35,840 --> 00:58:45,320  
go I don't believe it it's two now wait

1256  
00:58:42,949 --> 00:58:47,889  
a minute every time you're getting a bit

1257  
00:58:45,320 --> 00:58:50,930  
closer to the to the actual number and

1258  
00:58:47,889 --> 00:58:52,819  
if you think about it what are the

1259  
00:58:50,929 --> 00:58:56,089  
chances that I would be wrong every time

1260  
00:58:52,820 --> 00:58:59,200  
that's Wow let's go dude

1261  
00:58:56,090 --> 00:58:59,200  
the math on that sir

1262  
00:58:59,659 --> 00:59:04,730  
oh by the way every time I burp or

1263  
00:59:03,380 --> 00:59:09,050  
something that's not being recorded I

1264  
00:59:04,730 --> 00:59:13,420  
mute my microphone I got a plane hang on

1265  
00:59:09,050 --> 00:59:15,800  
a sec maybe it's an alien I don't know

1266  
00:59:13,420 --> 00:59:17,680  
what don't they want us to record videos

1267  
00:59:15,800 --> 00:59:20,510  
that's it that's it

1268  
00:59:17,679 --> 00:59:22,759  
it's just dying now and we should tell

1269  
00:59:20,510 --> 00:59:24,890  
what they would this is what kills me

1270  
00:59:22,760 --> 00:59:26,690  
man I love to do interviews in the

1271  
00:59:24,889 --> 00:59:28,489  
morning Sydney time because I got a good

1272  
00:59:26,690 --> 00:59:31,400  
voice you know I got I've slept all

1273  
00:59:28,489 --> 00:59:34,789  
night my voice is fresh and yeah it's

1274  
00:59:31,400 --> 00:59:38,329  
got the tones I really appreciate but at

1275  
00:59:34,789 --> 00:59:40,519  
the same time my tummy rumbles so quite

1276  
00:59:38,329 --> 00:59:42,170  
often I'm ready I'm recording something

1277  
00:59:40,519 --> 00:59:50,570  
for the show like and of course when the

1278  
00:59:42,170 --> 00:59:52,750  
Apollo astral plane is gone I'll pick it

1279  
00:59:50,570 --> 00:59:52,750  
up