

Episode 764

THE
**SKEPTIC
ZONE**
PODCAST

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The Skeptic Zone Podcast

28 May 2023



Eugenie C. Scott

one Podcast



Susan Gerbic

Large Dinosaurs
in San Francisco
with Dr Eugenie Scott

Skeptical Videos
with Susan Gerbic

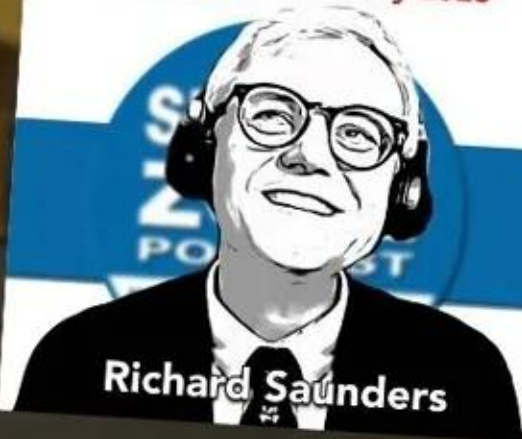
The Book of Tim

TROVE looks at
Lake Monsters



Tim Mendham

The Skeptic Zone Podcast
Episode 764 - 28 May 2023



Richard Saunders



1
00:00:17,140 --> 00:00:09,049
welcome to the skeptic Zone the podcast

2
00:00:17,150 --> 00:00:23,810
[Music]

3
00:00:27,550 --> 00:00:25,670
yes it's the skeptic Zone podcast

4
00:00:32,569 --> 00:00:27,560
episode number

5
00:00:35,150 --> 00:00:32,579
764 for the 28th of May 2023 Richard

6
00:00:37,729 --> 00:00:35,160
Saunders coming to you this week from

7
00:00:41,930 --> 00:00:37,739
well near San Francisco

8
00:00:44,630 --> 00:00:41,940
on this week's episode I journey to San

9
00:00:46,970 --> 00:00:44,640
Francisco with Dr Eugenie Scott in

10
00:00:48,729 --> 00:00:46,980
search of dinosaurs yes a couple of

11
00:00:52,670 --> 00:00:48,739
weeks ago on the show we were in the

12
00:00:56,630 --> 00:00:52,680
Tyrell Museum The Royal Tyrrell Museum

13
00:00:58,069 --> 00:00:56,640

of paleontology in Canada this week in

14

00:01:01,310 --> 00:00:58,079

the United States we head to San

15

00:01:03,590 --> 00:01:01,320

Francisco to the Academy of Sciences in

16

00:01:06,770 --> 00:01:03,600

Golden Gate Park and we look for the

17

00:01:09,649 --> 00:01:06,780

world's largest dinosaurs sauropods and

18

00:01:11,750 --> 00:01:09,659

more coming up at the top of the show

19

00:01:14,330 --> 00:01:11,760

after that I catch up with my old friend

20

00:01:16,910 --> 00:01:14,340

Susan Gerber who was in the Bay Area to

21

00:01:19,550 --> 00:01:16,920

give a workshop in Berkeley which was

22

00:01:20,990 --> 00:01:19,560

very interesting indeed and I chat to

23

00:01:23,330 --> 00:01:21,000

Susan about all sorts of things

24

00:01:26,390 --> 00:01:23,340

including her YouTube channel

25

00:01:29,810 --> 00:01:26,400

where she looks at so-called psychics

26

00:01:34,130 --> 00:01:29,820

after that it's the book of Tim and Tim

27

00:01:36,289 --> 00:01:34,140

reads a report about Mass Hysteria

28

00:01:40,010 --> 00:01:36,299

then to round off the show as recorded

29

00:01:42,469 --> 00:01:40,020

in Skookum studios in Calgary the Trove

30

00:01:45,530 --> 00:01:42,479

segment looks at lake monsters

31

00:01:46,850 --> 00:01:45,540

it's the weekend it's the weekend around

32

00:01:49,370 --> 00:01:46,860

the world

33

00:01:51,830 --> 00:01:49,380

normally though I know people really

34

00:01:54,230 --> 00:01:51,840

like the fact that Fridays come around

35

00:01:56,149 --> 00:01:54,240

well they come around at least once a

36

00:01:58,310 --> 00:01:56,159

week if you're the sort of person who

37

00:02:01,069 --> 00:01:58,320

appreciates Friday Friday afternoon

38

00:02:02,090 --> 00:02:01,079

especially I'm thinking about you why

39

00:02:03,950 --> 00:02:02,100

not

40

00:02:08,270 --> 00:02:03,960

but now it's time for me to run

41

00:02:10,430 --> 00:02:08,280

downstairs and have I think a roast beef

42

00:02:12,890 --> 00:02:10,440

and cheese sandwich

43

00:02:15,110 --> 00:02:12,900

while I do that I hope you enjoy the

44

00:02:22,400 --> 00:02:15,120

skeptic Zone

45

00:02:24,960 --> 00:02:22,410

[Music]

46

00:02:33,130 --> 00:02:24,970

[Applause]

47

00:02:37,850 --> 00:02:35,449

dinosaurs yes I can't get enough of

48

00:02:39,650 --> 00:02:37,860

dinosaurs a couple of weeks ago I was in

49

00:02:41,869 --> 00:02:39,660

Canada looking at dinosaurs at the

50

00:02:46,009 --> 00:02:41,879

Tyrell the Royal Tyrell Museum of

51
00:02:49,449 --> 00:02:46,019
paleontology in Calgary today I'm in

52
00:02:52,850 --> 00:02:49,459
Golden Gate Park in San Francisco

53
00:02:55,190 --> 00:02:52,860
where the museum here is putting on a

54
00:02:57,290 --> 00:02:55,200
wonderful exhibition of giant dinosaurs

55
00:02:59,330 --> 00:02:57,300
I'm with somebody who needs no

56
00:03:02,509 --> 00:02:59,340
introduction it's Dr Eugenie Scott hi

57
00:03:04,130 --> 00:03:02,519
Jenny hi there we are amongst the

58
00:03:09,430 --> 00:03:04,140
dinosaurs Duty look at this we've got a

59
00:03:14,990 --> 00:03:12,830
uh very long neck and and face but you

60
00:03:16,309 --> 00:03:15,000
know it's a visiting exhibit so they're

61
00:03:18,530 --> 00:03:16,319
not going to have everything here but

62
00:03:21,110 --> 00:03:18,540
they've got they've got a part of a

63
00:03:23,390 --> 00:03:21,120

sauropod leg over there which is about

64

00:03:25,369 --> 00:03:23,400

the size of a two-story buildings yeah

65

00:03:27,649 --> 00:03:25,379

it's moving right along I do like this

66

00:03:29,330 --> 00:03:27,659

one because it it's I'll just walk over

67

00:03:31,850 --> 00:03:29,340

here underneath it's a reconstruction of

68

00:03:33,949 --> 00:03:31,860

a sauropod the long neck and the the

69

00:03:36,410 --> 00:03:33,959

head it gives you a true idea of the

70

00:03:38,809 --> 00:03:36,420

actual scale of these things yeah you

71

00:03:40,190 --> 00:03:38,819

don't have to watch uh Jurassic Park you

72

00:03:43,309 --> 00:03:40,200

can just come here

73

00:03:44,869 --> 00:03:43,319

I'm astonished the mouth itself and the

74

00:03:46,490 --> 00:03:44,879

teeth are tiny compared to the rest of

75

00:03:48,110 --> 00:03:46,500

it which meant it would have to be

76

00:03:50,089 --> 00:03:48,120

what's the word I'm looking for not

77

00:03:52,009 --> 00:03:50,099

harvesting the food um

78

00:03:54,910 --> 00:03:52,019

munching the food what's the word I'm

79

00:03:58,869 --> 00:03:54,920

looking for uh raising breakfast

80

00:04:02,390 --> 00:03:58,879

thank you uh most of it's time because

81

00:04:05,750 --> 00:04:02,400

the sheer size of this Beast to keep it

82

00:04:08,390 --> 00:04:05,760

going oh yeah yeah these guys had to eat

83

00:04:10,309 --> 00:04:08,400

a lot and that means because they're

84

00:04:12,649 --> 00:04:10,319

eating low calorie food by and large

85

00:04:15,229 --> 00:04:12,659

that means that they're eating most of

86

00:04:17,270 --> 00:04:15,239

the time that they're awake yeah on the

87

00:04:19,849 --> 00:04:17,280

other hand size is very adaptive if you

88

00:04:22,490 --> 00:04:19,859

want to avoid Predators because once you

89

00:04:25,430 --> 00:04:22,500

get you know patch the hash past the

90

00:04:27,830 --> 00:04:25,440

hatchling stage and we do know that many

91

00:04:29,090 --> 00:04:27,840

if not most dinosaurs did take care of

92

00:04:31,430 --> 00:04:29,100

their young so there would be some

93

00:04:34,189 --> 00:04:31,440

protection but once you got you know

94

00:04:35,629 --> 00:04:34,199

past the size of a small car you didn't

95

00:04:37,850 --> 00:04:35,639

have to worry so much about this thing

96

00:04:39,530 --> 00:04:37,860

worrying about predators no I mean

97

00:04:41,570 --> 00:04:39,540

predators to go and look for something

98

00:04:42,830 --> 00:04:41,580

else anything older than an adolescent

99

00:04:45,770 --> 00:04:42,840

doesn't have to worry a lot about

100

00:04:48,469 --> 00:04:45,780

Predators but you do have to worry about

101

00:04:50,570 --> 00:04:48,479

eating you do and we'll

102

00:04:52,310 --> 00:04:50,580

this is only the first room here in the

103

00:04:53,270 --> 00:04:52,320

exhibition so we'll March around the

104

00:04:55,790 --> 00:04:53,280

corner

105

00:04:58,210 --> 00:04:55,800

into another Hall where we are

106

00:05:00,469 --> 00:04:58,220

confronted with another sauropod

107

00:05:03,650 --> 00:05:00,479

one-to-one scale model the full body

108

00:05:06,290 --> 00:05:03,660

which is quite fascinating and it's been

109

00:05:07,969 --> 00:05:06,300

uh segmented in other words parts of it

110

00:05:11,409 --> 00:05:07,979

have been cut away so we can see the

111

00:05:15,110 --> 00:05:11,419

veins running up the neck the esophagus

112

00:05:19,909 --> 00:05:15,120

and some of the muscle structure

113

00:05:25,610 --> 00:05:22,990

and as you can probably hear

114

00:05:27,710 --> 00:05:25,620

there are many many children

115

00:05:32,570 --> 00:05:27,720

here today which is a very good sign a

116

00:05:36,710 --> 00:05:35,210

I'm now standing underneath

117

00:05:42,350 --> 00:05:36,720

a

118

00:05:45,770 --> 00:05:42,360

lungs

119

00:05:52,070 --> 00:05:45,780

of a sauropod dinosaur

120

00:05:57,230 --> 00:05:54,650

and we follow from the lungs we follow

121

00:05:59,270 --> 00:05:57,240

the windpipe I'm walking along the

122

00:06:03,469 --> 00:05:59,280

length of the windpipe I'm still walking

123

00:06:05,270 --> 00:06:03,479

I'm still walking I'm still walking last

124

00:06:08,330 --> 00:06:05,280

I've come to the end of the wind pipe

125

00:06:09,550 --> 00:06:08,340

where there is a model of the heart of a

126
00:06:11,629 --> 00:06:09,560
sauropod

127
00:06:15,710 --> 00:06:11,639
and it's

128
00:06:17,090 --> 00:06:15,720
practically about a meter from top to

129
00:06:18,909 --> 00:06:17,100
bottom Maybe

130
00:06:22,969 --> 00:06:18,919
almost a meter

131
00:06:25,430 --> 00:06:22,979
and needless to say again it is enormous

132
00:06:27,650 --> 00:06:25,440
but this model of the sauropod they have

133
00:06:29,450 --> 00:06:27,660
before us this full-scale model with

134
00:06:30,770 --> 00:06:29,460
various bits of the body cut away so you

135
00:06:33,129 --> 00:06:30,780
can see the bone structure the muscle

136
00:06:34,809 --> 00:06:33,139
structure uh

137
00:06:37,610 --> 00:06:34,819
various

138
00:06:39,770 --> 00:06:37,620

well you can see the esophagus and the

139

00:06:42,110 --> 00:06:39,780

windpipe

140

00:06:44,689 --> 00:06:42,120

the muscle structure of the legs it's a

141

00:06:46,870 --> 00:06:44,699

wonderful display and certainly giving

142

00:06:51,650 --> 00:06:46,880

me a much better understanding

143

00:06:53,749 --> 00:06:51,660

of how these creatures were put together

144

00:06:55,189 --> 00:06:53,759

Genie Scott has joined me to gaze upon

145

00:06:56,870 --> 00:06:55,199

this interesting dinosaur and what I

146

00:06:58,570 --> 00:06:56,880

didn't notice before is on this on the

147

00:07:03,249 --> 00:06:58,580

belly of the Beast

148

00:07:06,830 --> 00:07:03,259

they've got a little video display with

149

00:07:10,370 --> 00:07:06,840

descriptions of the creature yeah

150

00:07:12,290 --> 00:07:10,380

yeah one one side is it's it's a

151

00:07:14,270 --> 00:07:12,300

getting I'm getting a lot of

152

00:07:16,550 --> 00:07:14,280

appreciation of this exhibit I mean I'm

153

00:07:19,790 --> 00:07:16,560

I'm really into museums anyway and I

154

00:07:22,550 --> 00:07:19,800

really uh have a have a perhaps more

155

00:07:25,370 --> 00:07:22,560

than critical eye toward how well a

156

00:07:26,689 --> 00:07:25,380

museum display is done and so far I've

157

00:07:29,689 --> 00:07:26,699

been impressed with this one I think

158

00:07:32,570 --> 00:07:29,699

it's a good job this particular model

159

00:07:34,850 --> 00:07:32,580

of a sauropod has a reconstruction on

160

00:07:37,689 --> 00:07:34,860

one side and then the side that we're

161

00:07:40,550 --> 00:07:37,699

looking at is a

162

00:07:43,550 --> 00:07:40,560

cutaway as it were you see the muscles

163

00:07:46,370 --> 00:07:43,560

on the outside you see the the bones on

164

00:07:48,230 --> 00:07:46,380

the inside and you kind of get an idea

165

00:07:49,730 --> 00:07:48,240

of the Blood and Guts and then the

166

00:07:52,129 --> 00:07:49,740

little video that Richard was just

167

00:07:54,230 --> 00:07:52,139

describing shows things like internal

168

00:07:56,029 --> 00:07:54,240

organs and digestive systems and stuff

169

00:07:57,230 --> 00:07:56,039

like that so it's pretty cool and

170

00:08:00,290 --> 00:07:57,240

there's a little you know further

171

00:08:03,170 --> 00:08:00,300

information about respiration digestion

172

00:08:06,290 --> 00:08:03,180

and so forth so if I must say I'm very

173

00:08:08,210 --> 00:08:06,300

impressed it's in all honesty it's not a

174

00:08:09,650 --> 00:08:08,220

huge exhibition there's one room over

175

00:08:11,930 --> 00:08:09,660

there and there's the main room where

176

00:08:14,089 --> 00:08:11,940

and now but for what it's worth it's

177

00:08:16,010 --> 00:08:14,099

it's very good well you know traveling

178

00:08:17,870 --> 00:08:16,020

exhibits are usually not huge this is

179

00:08:20,029 --> 00:08:17,880

this is a traveling exhibit it's not

180

00:08:21,469 --> 00:08:20,039

permanent so you know they have to be

181

00:08:25,010 --> 00:08:21,479

small enough to back up and move on to

182

00:08:27,110 --> 00:08:25,020

the next exhibit so yeah the world of

183

00:08:28,309 --> 00:08:27,120

traveling exhibits is fascinating a

184

00:08:30,189 --> 00:08:28,319

place that where you and I have been

185

00:08:33,889 --> 00:08:30,199

several times the Explorer

186

00:08:36,170 --> 00:08:33,899

and it specializes in producing

187

00:08:37,550 --> 00:08:36,180

traveling exhibits they produce a lot of

188

00:08:39,589 --> 00:08:37,560

exhibits that then are shipped to

189

00:08:42,230 --> 00:08:39,599

museums all over the world some of which

190

00:08:44,870 --> 00:08:42,240

remain there as permanent displays but

191

00:08:46,490 --> 00:08:44,880

some some travel like this sauropod

192

00:08:48,829 --> 00:08:46,500

display is I don't know who put this one

193

00:08:50,990 --> 00:08:48,839

out this is uh my first time seeing it

194

00:08:54,650 --> 00:08:51,000

but it's you know what I've seen so far

195

00:08:58,550 --> 00:08:55,970

it was near you

196

00:09:02,210 --> 00:09:00,590

check it out yeah it's got our seal of

197

00:09:05,210 --> 00:09:02,220

approval it really has if you're in the

198

00:09:09,110 --> 00:09:05,220

Bay Area uh while it's here absolutely

199

00:09:14,509 --> 00:09:10,970

now there's a very interesting display

200

00:09:16,730 --> 00:09:14,519

here talking about how for a sauropod

201
00:09:19,130 --> 00:09:16,740
with an extremely long neck

202
00:09:21,170 --> 00:09:19,140
how this is really a way to conserve

203
00:09:23,030 --> 00:09:21,180
energy when grazing because all the

204
00:09:25,070 --> 00:09:23,040
sauropod has to do is stand in the one

205
00:09:29,690 --> 00:09:25,080
location more or less

206
00:09:31,910 --> 00:09:29,700
and it can graze a huge sweep of area

207
00:09:35,389 --> 00:09:31,920
if you imagine a compass a compass

208
00:09:38,269 --> 00:09:35,399
drawing out a circle with the sauropod

209
00:09:40,910 --> 00:09:38,279
sort of pivoting on one end

210
00:09:42,710 --> 00:09:40,920
that that meant that it didn't have to

211
00:09:44,290 --> 00:09:42,720
keep walking and walking to graze it

212
00:09:47,210 --> 00:09:44,300
could stay in the one spot more or less

213
00:09:50,150 --> 00:09:47,220

and swing its neck around and would have

214

00:09:52,670 --> 00:09:50,160

an enormous area of vegetation to uh

215

00:09:56,269 --> 00:09:52,680

from which to graze

216

00:09:58,009 --> 00:09:56,279

I never knew it's interesting Genie one

217

00:09:58,970 --> 00:09:58,019

of the information panels we're looking

218

00:10:01,430 --> 00:09:58,980

at here

219

00:10:05,829 --> 00:10:01,440

has a nice illustration of a sauropod

220

00:10:08,750 --> 00:10:05,839

but it's uh it has markings like a draft

221

00:10:11,329 --> 00:10:08,760

down its neck and along the back and

222

00:10:12,350 --> 00:10:11,339

along the tail which may well have been

223

00:10:16,870 --> 00:10:12,360

the case

224

00:10:19,130 --> 00:10:16,880

we just don't know we do know from some

225

00:10:21,769 --> 00:10:19,140

fossils that we have of dinosaur skin

226

00:10:25,610 --> 00:10:21,779

that there were colorful markings on the

227

00:10:27,590 --> 00:10:25,620

skin nothing has been found that

228

00:10:29,210 --> 00:10:27,600

completely replicates this dry this is

229

00:10:30,889 --> 00:10:29,220

this drawing is still fanciful but it's

230

00:10:33,650 --> 00:10:30,899

not it's not outside of the realm but

231

00:10:36,350 --> 00:10:33,660

absolutely not no that's fun the red

232

00:10:38,870 --> 00:10:36,360

part on the head here and sure why not

233

00:10:41,870 --> 00:10:38,880

we we do know that that dinosaur skin

234

00:10:43,430 --> 00:10:41,880

had colors it had Stripes I think there

235

00:10:47,329 --> 00:10:43,440

was there's even some evidence of some

236

00:10:50,210 --> 00:10:47,339

patches so you know go ahead be creative

237

00:10:52,850 --> 00:10:50,220

artists give us give us your ideas

238

00:10:59,329 --> 00:10:55,190

another interesting display here is a

239

00:11:03,170 --> 00:10:59,339

recreation of a dinosaur nest with a

240

00:11:04,730 --> 00:11:03,180

group of about nine or ten eggs and one

241

00:11:08,269 --> 00:11:04,740

is already hatched into a little

242

00:11:11,650 --> 00:11:08,279

dinosaur sitting in the nest

243

00:11:14,030 --> 00:11:11,660

fascinating however the

244

00:11:17,030 --> 00:11:14,040

centuries millennia

245

00:11:18,230 --> 00:11:17,040

eons that the same themes reoccur in

246

00:11:21,769 --> 00:11:18,240

nature

247

00:11:25,190 --> 00:11:21,779

a nest with eggs and undoubtedly a

248

00:11:26,530 --> 00:11:25,200

mother or a father looking after the

249

00:11:28,870 --> 00:11:26,540

Young

250

00:11:31,970 --> 00:11:28,880

[Music]

251
00:11:33,949 --> 00:11:31,980
the world's largest dinosaurs a major

252
00:11:39,050 --> 00:11:33,959
exhibition on view at the California

253
00:11:42,110 --> 00:11:39,060
Academy of Sciences from May 26 2023 to

254
00:11:45,370 --> 00:11:42,120
January the 21st 2024.

255
00:11:47,190 --> 00:11:45,380
find out more at Cal Academy

256
00:11:55,630 --> 00:11:47,200
dot org

257
00:11:57,610 --> 00:11:55,640
[Music]

258
00:12:10,910 --> 00:11:57,620
y

259
00:12:12,949 --> 00:12:10,920
continent is home to almost 750 million

260
00:12:15,290 --> 00:12:12,959
people living in 50 different countries

261
00:12:17,810 --> 00:12:15,300
belonging to an even greater number of

262
00:12:19,730 --> 00:12:17,820
ethnicities and believe it or not only a

263
00:12:21,350 --> 00:12:19,740

handful of them list English as the

264

00:12:23,449 --> 00:12:21,360

first or at least one of the official

265

00:12:25,370 --> 00:12:23,459

languages and there's an amazing amount

266

00:12:27,230 --> 00:12:25,380

of skeptical activism going on out there

267

00:12:29,090 --> 00:12:27,240

that you are not aware of because it's

268

00:12:31,790 --> 00:12:29,100

not in English yeah because you know

269

00:12:34,009 --> 00:12:31,800

pseudoscience quackery and fake news do

270

00:12:35,930 --> 00:12:34,019

not stop at Borders they get translated

271

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

to other languages and transferred

272

00:12:40,130 --> 00:12:38,160

across the whole world so if you're

273

00:12:42,350 --> 00:12:40,140

interested in weekly updates on what's

274

00:12:44,389 --> 00:12:42,360

going on in some of the countries here

275

00:12:46,490 --> 00:12:44,399

providing you with all the interesting

276

00:12:48,230 --> 00:12:46,500

facts news and even some skeptical

277

00:12:50,389 --> 00:12:48,240

history or if you want to hear

278

00:12:52,069 --> 00:12:50,399

interviews in English with brilliant

279

00:12:54,590 --> 00:12:52,079

people you sometimes haven't even heard

280

00:12:58,129 --> 00:12:54,600

about then what you need is to subscribe

281

00:13:01,850 --> 00:12:58,139

to the ESP extra sensory perception you

282

00:13:04,129 --> 00:13:01,860

must be really wrong no the espsn the

283

00:13:06,110 --> 00:13:04,139

European Skeptics podcast that's right

284

00:13:09,650 --> 00:13:06,120

and if you're wondering how you can find

285

00:13:11,930 --> 00:13:09,660

us online go to the esp.eu and you can

286

00:13:14,509 --> 00:13:11,940

also find us on Twitter at [es podcast](https://twitter.com/espodcast)

287

00:13:16,910 --> 00:13:14,519

underscore EU or you can like us on

288

00:13:18,829 --> 00:13:16,920

Facebook and if you want to subscribe do

289

00:13:21,050 --> 00:13:18,839

a quick search on all the intertubes for

290

00:13:23,690 --> 00:13:21,060

the European Skeptics podcast you'll

291

00:13:26,210 --> 00:13:23,700

find us on Soundcloud iTunes Stitcher

292

00:13:38,030 --> 00:13:26,220

Spotify and all the rest the European

293

00:13:38,040 --> 00:13:42,610

thank you

294

00:13:58,930 --> 00:13:51,069

[Music]

295

00:13:58,940 --> 00:14:03,350

here's Susan gerbick

296

00:14:03,360 --> 00:14:06,480

foreign

297

00:14:16,190 --> 00:14:12,430

[Music]

298

00:14:19,569 --> 00:14:16,200

where are we Susan hey Richard we're at

299

00:14:23,389 --> 00:14:19,579

in Berkeley at the community room

300

00:14:25,430 --> 00:14:23,399

at the Central Library yeah Berkeley

301

00:14:27,530 --> 00:14:25,440

Public Library yes which is a big

302

00:14:29,329 --> 00:14:27,540

building and it's you were saying it's a

303

00:14:31,190 --> 00:14:29,339

mix of the old and the new we're in this

304

00:14:34,790 --> 00:14:31,200

meeting an empty meeting room because

305

00:14:36,889 --> 00:14:34,800

we're early for the echo hello hello and

306

00:14:39,050 --> 00:14:36,899

you're here today too I'm going to be

307

00:14:41,509 --> 00:14:39,060

doing a workshop I'm speaking to the

308

00:14:43,490 --> 00:14:41,519

berry Skeptics and this should be really

309

00:14:45,710 --> 00:14:43,500

interesting it's I'm facilitating a

310

00:14:48,290 --> 00:14:45,720

workshop so I'm not giving a talk

311

00:14:51,050 --> 00:14:48,300

this is about how to have good

312

00:14:53,090 --> 00:14:51,060

discussions with people how to come back

313

00:14:55,069 --> 00:14:53,100

and into the world meeting people in

314

00:14:57,949 --> 00:14:55,079

person and having discussions about

315

00:15:00,949 --> 00:14:57,959

difficult topics the goal is to become

316

00:15:04,850 --> 00:15:00,959

the person people come to when they have

317

00:15:09,170 --> 00:15:06,829

I've got I've got questions about

318

00:15:10,850 --> 00:15:09,180

strange things a lot of the time I feel

319

00:15:12,530 --> 00:15:10,860

a little silly doing this Workshop in

320

00:15:13,850 --> 00:15:12,540

front of you and like Jimmy Scott and

321

00:15:15,470 --> 00:15:13,860

the other senior people I'm going to

322

00:15:17,090 --> 00:15:15,480

learn a lot of stuff oh no no no I don't

323

00:15:19,069 --> 00:15:17,100

know we'll see we'll see we always learn

324

00:15:21,590 --> 00:15:19,079

something and I've been learning things

325

00:15:23,689 --> 00:15:21,600

because I've been watching your YouTube

326

00:15:26,509 --> 00:15:23,699

videos can you please tell the audience

327

00:15:29,689 --> 00:15:26,519

about the YouTube videos especially

328

00:15:32,269 --> 00:15:29,699

centering on very well-known so-called

329

00:15:34,069 --> 00:15:32,279

mediums yeah so it's called psychics

330

00:15:35,930 --> 00:15:34,079

explained that's my YouTube channel I've

331

00:15:38,509 --> 00:15:35,940

had it about two months Lincoln this

332

00:15:39,530 --> 00:15:38,519

week show notes of course you're the

333

00:15:41,150 --> 00:15:39,540

best

334

00:15:43,490 --> 00:15:41,160

um and what I'm doing is I'm breaking

335

00:15:45,410 --> 00:15:43,500

down psychic readings mediumship

336

00:15:46,790 --> 00:15:45,420

readings in detail and explaining

337

00:15:48,590 --> 00:15:46,800

because I think one of the things that

338

00:15:51,470 --> 00:15:48,600

we've been doing in the community is

339

00:15:54,470 --> 00:15:51,480

we've not done a well

340

00:15:58,250 --> 00:15:54,480

you know we're how do I say this we're

341

00:16:00,650 --> 00:15:58,260

being kind of flip it about how we talk

342

00:16:02,509 --> 00:16:00,660

to people who believe in mediumship

343

00:16:03,829 --> 00:16:02,519

readings they say I've had a really

344

00:16:05,269 --> 00:16:03,839

great reading and there's no way they

345

00:16:07,430 --> 00:16:05,279

could have they could have known this

346

00:16:09,590 --> 00:16:07,440

information and we're just like oh no

347

00:16:11,389 --> 00:16:09,600

that's you know that's silly trying

348

00:16:12,590 --> 00:16:11,399

basically saying you're dumb you know

349

00:16:15,290 --> 00:16:12,600

and you don't know what you're talking

350

00:16:16,490 --> 00:16:15,300

about and how silly you are but I think

351
00:16:18,230 --> 00:16:16,500
that

352
00:16:20,870 --> 00:16:18,240
things actually do

353
00:16:23,210 --> 00:16:20,880
seem very realistic if you're not like

354
00:16:26,210 --> 00:16:23,220
somebody who's done hours and hours and

355
00:16:28,430 --> 00:16:26,220
you know tons of listening to mediumship

356
00:16:30,110 --> 00:16:28,440
readings like you and I have you don't

357
00:16:31,910 --> 00:16:30,120
hear the tricks you don't see it well

358
00:16:34,189 --> 00:16:31,920
it's the old analogy with the stage

359
00:16:36,650 --> 00:16:34,199
magician when you go to see a stage

360
00:16:38,870 --> 00:16:36,660
magician in the rabbit appears and the

361
00:16:40,790 --> 00:16:38,880
woman is thrown in half or or whatever

362
00:16:43,069 --> 00:16:40,800
the case may be if you don't know the

363
00:16:45,110 --> 00:16:43,079

trick you're Blown Away now if you go to

364

00:16:47,629 --> 00:16:45,120

somebody who says they can contact your

365

00:16:50,629 --> 00:16:47,639

dead relatives and they appear to do so

366

00:16:53,329 --> 00:16:50,639

and you don't know the psychological and

367

00:16:55,189 --> 00:16:53,339

sometimes frankly outright cheating then

368

00:16:57,650 --> 00:16:55,199

you can be blown away and it's the old

369

00:16:59,449 --> 00:16:57,660

adage we we don't blame the victim right

370

00:17:01,610 --> 00:16:59,459

we shouldn't blame the victim we should

371

00:17:02,930 --> 00:17:01,620

be looking and explaining it to them in

372

00:17:04,730 --> 00:17:02,940

some sort of detail and that's what I do

373

00:17:07,130 --> 00:17:04,740

on my channel is I break down the

374

00:17:09,230 --> 00:17:07,140

reading I explain a lot of it's word

375

00:17:12,169 --> 00:17:09,240

play because most psychics do cold

376

00:17:15,169 --> 00:17:12,179

reading so yeah yeah so what we're able

377

00:17:17,809 --> 00:17:15,179

to do is look at how they said the words

378

00:17:20,090 --> 00:17:17,819

and then think about how they said the

379

00:17:21,829 --> 00:17:20,100

words to make it sound like they were

380

00:17:23,990 --> 00:17:21,839

being specific but actually they're just

381

00:17:25,309 --> 00:17:24,000

being very vague it's as far as we're

382

00:17:27,049 --> 00:17:25,319

concerned it's the old story because

383

00:17:30,049 --> 00:17:27,059

we've been dealing with this

384

00:17:31,310 --> 00:17:30,059

well frankly for decades yeah and you

385

00:17:33,110 --> 00:17:31,320

know the interesting thing Richard is

386

00:17:35,990 --> 00:17:33,120

I'm the only female I think that's doing

387

00:17:37,789 --> 00:17:36,000

this and I've looked into this for years

388

00:17:40,070 --> 00:17:37,799

all the researchers and psychics have

389

00:17:43,370 --> 00:17:40,080

been male well there's lean Kelly of

390

00:17:45,830 --> 00:17:43,380

course in Australia who wrote uh the the

391

00:17:47,029 --> 00:17:45,840

book um the skeptic's guide to the

392

00:17:49,430 --> 00:17:47,039

Paranormal I think that's the name of

393

00:17:51,110 --> 00:17:49,440

her and she's an expert on cold reading

394

00:17:53,270 --> 00:17:51,120

and psychics I didn't realize that I

395

00:17:55,490 --> 00:17:53,280

know Lynn Kelly yeah I know I think of

396

00:17:58,669 --> 00:17:55,500

her as the person who deals with uh

397

00:18:00,890 --> 00:17:58,679

Stonehenge and spiders yeah I didn't

398

00:18:02,570 --> 00:18:00,900

really think that she studied with Ian

399

00:18:04,070 --> 00:18:02,580

Roland who wrote the book the full facts

400

00:18:08,090 --> 00:18:04,080

book of code reading didn't know that

401
00:18:10,730 --> 00:18:08,100
and in oh yes I've known Lynn Kelly for

402
00:18:12,890 --> 00:18:10,740
years and I've seen her many years ago

403
00:18:14,210 --> 00:18:12,900
in Melbourne I was down for science week

404
00:18:16,010 --> 00:18:14,220
in Melbourne with the local Skeptics

405
00:18:18,710 --> 00:18:16,020
down there hello to all the wonderful

406
00:18:20,450 --> 00:18:18,720
Melbourne Skeptics and Lynn set up a

407
00:18:23,090 --> 00:18:20,460
little table and she was giving free

408
00:18:27,529 --> 00:18:23,100
so-called psychic readings and people

409
00:18:29,450 --> 00:18:27,539
were gobsmacked and she would have

410
00:18:31,250 --> 00:18:29,460
people saying can I come back later for

411
00:18:33,169 --> 00:18:31,260
a private reading even though there were

412
00:18:33,909 --> 00:18:33,179
signs above her saying fake this is a

413
00:18:37,190 --> 00:18:33,919

trick

414

00:18:38,930 --> 00:18:37,200

she's superb now that is something I

415

00:18:41,390 --> 00:18:38,940

didn't know yo I'm the only one on

416

00:18:43,850 --> 00:18:41,400

YouTube apparently that's doing this

417

00:18:46,310 --> 00:18:43,860

interesting and and what exactly do you

418

00:18:49,370 --> 00:18:46,320

do in these videos so I'm explaining the

419

00:18:53,570 --> 00:18:49,380

video trying to be kind to the people

420

00:18:55,010 --> 00:18:53,580

who are the victims well the sitters I

421

00:18:57,350 --> 00:18:55,020

guess we should call them sitters yeah

422

00:19:00,890 --> 00:18:57,360

and they're there getting the readings

423

00:19:03,289 --> 00:19:00,900

and the medium is doing their thing and

424

00:19:04,909 --> 00:19:03,299

I'll stop and pause and say did you hear

425

00:19:07,250 --> 00:19:04,919

that did you see how they did that do

426
00:19:10,010 --> 00:19:07,260
you see the words he used or she used

427
00:19:12,169 --> 00:19:10,020
and how they how they're manipulating

428
00:19:16,250 --> 00:19:12,179
the sitter sitters are almost always

429
00:19:17,690 --> 00:19:16,260
female yeah and the um you know I'll

430
00:19:20,150 --> 00:19:17,700
look at it and we'll we'll just go

431
00:19:22,010 --> 00:19:20,160
through if they're hot reading which are

432
00:19:23,630 --> 00:19:22,020
some psychics that do heart reading I

433
00:19:25,250 --> 00:19:23,640
will find the screenshots that prove

434
00:19:27,110 --> 00:19:25,260
they're hot reading and and you do that

435
00:19:29,810 --> 00:19:27,120
by looking at the publicly available

436
00:19:32,270 --> 00:19:29,820
social media profile right and you can

437
00:19:34,370 --> 00:19:32,280
see where the medium and says the medium

438
00:19:36,169 --> 00:19:34,380

might say what's this about the two dogs

439

00:19:39,049 --> 00:19:36,179

who ran away or something like that and

440

00:19:40,909 --> 00:19:39,059

you can find where this sitter has

441

00:19:43,850 --> 00:19:40,919

posted this very information sometime

442

00:19:45,770 --> 00:19:43,860

back on their social media so it's no

443

00:19:47,690 --> 00:19:45,780

surprise these psychics suddenly get

444

00:19:49,789 --> 00:19:47,700

this mystical insight about stuff that's

445

00:19:52,490 --> 00:19:49,799

already out there absolutely we find

446

00:19:54,470 --> 00:19:52,500

that it's not as hard to find that that

447

00:19:56,630 --> 00:19:54,480

you would think you do not have to have

448

00:19:58,430 --> 00:19:56,640

a private Facebook I mean you don't have

449

00:20:00,529 --> 00:19:58,440

to have a public Facebook page you can

450

00:20:04,250 --> 00:20:00,539

actually find stuff on pages that are

451
00:20:06,830 --> 00:20:04,260
fairly open or using genealogy sites but

452
00:20:10,130 --> 00:20:06,840
the psychics I deal with are doing maybe

453
00:20:12,650 --> 00:20:10,140
10 minutes on a social media it's really

454
00:20:14,270 --> 00:20:12,660
easy to find the things and myself and

455
00:20:16,190 --> 00:20:14,280
my team I have a team of people who do

456
00:20:19,130 --> 00:20:16,200
this they're really good at it and after

457
00:20:20,630 --> 00:20:19,140
a while you just kind of get the get the

458
00:20:23,210 --> 00:20:20,640
feel of it and you know where to go we

459
00:20:25,430 --> 00:20:23,220
go right to photos and we look for any

460
00:20:27,830 --> 00:20:25,440
photograph on somebody's posted that's

461
00:20:29,690 --> 00:20:27,840
black and white sepia or something from

462
00:20:32,450 --> 00:20:29,700
the 60s or 70s you know that kind of

463
00:20:34,070 --> 00:20:32,460

look to it we go right to it and most of

464

00:20:37,130 --> 00:20:34,080

the time it's exactly what the psychic

465

00:20:38,750 --> 00:20:37,140

has found really really because that

466

00:20:40,730 --> 00:20:38,760

you'll run it's just a good Dimensions

467

00:20:43,549 --> 00:20:40,740

you're speaking of course it's not just

468

00:20:45,230 --> 00:20:43,559

the details like posts like today I lost

469

00:20:47,690 --> 00:20:45,240

my dog or something like that if they

470

00:20:50,330 --> 00:20:47,700

post photographs of their life and maybe

471

00:20:51,890 --> 00:20:50,340

from their own personal family there's a

472

00:20:53,750 --> 00:20:51,900

wealth of information a trip to

473

00:20:55,490 --> 00:20:53,760

Disneyland for example or at the beach

474

00:20:57,350 --> 00:20:55,500

or whatever the case may be what we're

475

00:20:59,930 --> 00:20:57,360

finding is the person will put something

476
00:21:01,430 --> 00:20:59,940
up that's a memorance of somebody oh

477
00:21:03,049 --> 00:21:01,440
this is Mother's Day this is Veterans

478
00:21:04,430 --> 00:21:03,059
Day this is Father's day and here's my

479
00:21:06,110 --> 00:21:04,440
parents on their wedding anniversary

480
00:21:08,210 --> 00:21:06,120
here's my parents here's my father

481
00:21:09,770 --> 00:21:08,220
coming home from the military and you

482
00:21:12,409 --> 00:21:09,780
see those black and white photographs

483
00:21:15,350 --> 00:21:12,419
and immediately there's some kind of

484
00:21:17,450 --> 00:21:15,360
post at the top saying this is my dad he

485
00:21:19,610 --> 00:21:17,460
was stationed here and he did this and

486
00:21:21,890 --> 00:21:19,620
and he buried my mom soon after or

487
00:21:23,510 --> 00:21:21,900
whatever and then in the comments of the

488
00:21:26,210 --> 00:21:23,520

family members they're saying stuff like

489

00:21:28,190 --> 00:21:26,220

oh I remember what Uncle Joe he did this

490

00:21:29,810 --> 00:21:28,200

and oh my gosh he used to take me

491

00:21:31,789 --> 00:21:29,820

fishing and yeah so this is right there

492

00:21:34,190 --> 00:21:31,799

psychic and the reading will say why am

493

00:21:35,870 --> 00:21:34,200

I seeing a man in uniform and why am I

494

00:21:37,669 --> 00:21:35,880

seeing this particular status because

495

00:21:39,590 --> 00:21:37,679

that's information is absolutely right

496

00:21:41,270 --> 00:21:39,600

so and then they fill it in the sitter

497

00:21:43,130 --> 00:21:41,280

fills in all the information as soon

498

00:21:46,669 --> 00:21:43,140

they can't wait to talk about themselves

499

00:21:47,870 --> 00:21:46,679

yeah and do you think that the the

500

00:21:51,169 --> 00:21:47,880

modern

501
00:21:53,090 --> 00:21:51,179
medium maybe is a bit lazy they don't

502
00:21:54,830 --> 00:21:53,100
have to do that much research they just

503
00:21:56,810 --> 00:21:54,840
go to Facebook and whatever absolutely

504
00:21:58,970 --> 00:21:56,820
Mark Edwards says that these are the

505
00:22:00,350 --> 00:21:58,980
laziest psyches he's ever seen in his

506
00:22:03,590 --> 00:22:00,360
entire life they used to have to

507
00:22:07,310 --> 00:22:03,600
materialize tremble trample tambourines

508
00:22:10,490 --> 00:22:07,320
and and have ectoplasm come out of their

509
00:22:11,990 --> 00:22:10,500
orifices and you know dark seances and

510
00:22:13,370 --> 00:22:12,000
now he says they just stand in front of

511
00:22:16,010 --> 00:22:13,380
a group of people and just say whatever

512
00:22:18,350 --> 00:22:16,020
it's the laziest he's ever seen it and

513
00:22:20,330 --> 00:22:18,360

social media has made it that made it

514

00:22:22,730 --> 00:22:20,340

easy made it easy well people tell me

515

00:22:24,289 --> 00:22:22,740

they say I shouldn't um oh I shouldn't

516

00:22:27,230 --> 00:22:24,299

be on social media it's another harmless

517

00:22:29,390 --> 00:22:27,240

social media no my Facebook page is

518

00:22:32,029 --> 00:22:29,400

public everything I do is published

519

00:22:34,510 --> 00:22:32,039

there's mostly cats and Gardens but the

520

00:22:36,890 --> 00:22:34,520

point is is that you should just assume

521

00:22:38,210 --> 00:22:36,900

there anybody who tells you something

522

00:22:39,950 --> 00:22:38,220

that you don't think they could have

523

00:22:41,450 --> 00:22:39,960

gotten from somewhere else guess what

524

00:22:43,490 --> 00:22:41,460

they got it from somewhere so just

525

00:22:44,630 --> 00:22:43,500

assume keep your Facebook page your

526

00:22:47,210 --> 00:22:44,640

social media is open as you're

527

00:22:49,330 --> 00:22:47,220

comfortable with don't it's already too

528

00:22:52,190 --> 00:22:49,340

late you can not close it up because

529

00:22:54,529 --> 00:22:52,200

people's lives are in newspapers they're

530

00:22:57,289 --> 00:22:54,539

on their other friends or family members

531

00:22:59,029 --> 00:22:57,299

Facebook social media you cannot protect

532

00:23:02,510 --> 00:22:59,039

yourself from all this it's there so

533

00:23:04,190 --> 00:23:02,520

just be wary and if somebody says

534

00:23:05,930 --> 00:23:04,200

um you know I'm contacting your dead

535

00:23:07,669 --> 00:23:05,940

whatever

536

00:23:09,770 --> 00:23:07,679

just assume they got it from social

537

00:23:11,270 --> 00:23:09,780

media somewhere I'm just remembering the

538

00:23:13,450 --> 00:23:11,280

time that I wrote a little script for

539

00:23:17,029 --> 00:23:13,460

you and you played a psychic called

540

00:23:18,950 --> 00:23:17,039

Goldie white do you remember that like

541

00:23:20,570 --> 00:23:18,960

we were contacting a dead cat or

542

00:23:22,430 --> 00:23:20,580

something like that oh my gosh I gotta

543

00:23:24,529 --> 00:23:22,440

go back and re-listen to that oh those

544

00:23:25,669 --> 00:23:24,539

were so fun they were just so fun the

545

00:23:27,529 --> 00:23:25,679

different little scripts you would have

546

00:23:29,570 --> 00:23:27,539

us do they oh my favorite one I think

547

00:23:31,669 --> 00:23:29,580

was the Bermuda Triangle oh that's right

548

00:23:33,950 --> 00:23:31,679

yes yes my favorite uh listeners if you

549

00:23:36,230 --> 00:23:33,960

go to the link in um on the skeptic Zone

550

00:23:38,570 --> 00:23:36,240

homepage at skepticzone.tv scroll down

551
00:23:40,909 --> 00:23:38,580
and on the right of the page you'll see

552
00:23:43,370 --> 00:23:40,919
typewriter time audio comedy and there's

553
00:23:45,649 --> 00:23:43,380
a great one where Susan is a tour guide

554
00:23:47,810 --> 00:23:45,659
in the Bermuda Triangle and I turn up to

555
00:23:49,549 --> 00:23:47,820
take one of your tours over and over and

556
00:23:51,590 --> 00:23:49,559
over and over again yeah you know

557
00:23:53,390 --> 00:23:51,600
they're so clever I am not clever like

558
00:23:55,370 --> 00:23:53,400
that you have such skills that I I

559
00:23:58,190 --> 00:23:55,380
couldn't even think of doing I have no

560
00:24:00,230 --> 00:23:58,200
skills in that area but I sure do like

561
00:24:02,450 --> 00:24:00,240
my mediumship readings I can pick out

562
00:24:04,850 --> 00:24:02,460
those things so fast and what's going on

563
00:24:06,590 --> 00:24:04,860

I love doing that well I think there are

564

00:24:09,409 --> 00:24:06,600

some people just turning up in the door

565

00:24:11,570 --> 00:24:09,419

now Susan we better stop this and get

566

00:24:13,490 --> 00:24:11,580

ready for the workshop but oh yeah this

567

00:24:16,610 --> 00:24:13,500

should be fun thank you very much thank

568

00:24:16,620 --> 00:24:21,130

foreign

569

00:24:26,870 --> 00:24:24,770

the Earth is only 6 000 years old that's

570

00:24:30,830 --> 00:24:26,880

what Answers in Genesis and the Creation

571

00:24:34,130 --> 00:24:30,840

Museum say and how can a museum be wrong

572

00:24:36,830 --> 00:24:34,140

isn't Dr Oz just wonderful I love

573

00:24:39,430 --> 00:24:36,840

today's episode it didn't talk down to

574

00:24:42,230 --> 00:24:39,440

his adoring audience of women at all

575

00:24:44,210 --> 00:24:42,240

science has proved that the subatomic

576

00:24:46,490 --> 00:24:44,220

Quantum realm is as real as it is

577

00:24:48,710 --> 00:24:46,500

counter-intuitive and bizarre therefore

578

00:24:51,350 --> 00:24:48,720

I can use it to support quantum healing

579

00:24:53,210 --> 00:24:51,360

on Quantum Consciousness after all how

580

00:24:54,230 --> 00:24:53,220

can journals like Aquarius metaphysics

581

00:24:56,930 --> 00:24:54,240

be wrong

582

00:24:58,610 --> 00:24:56,940

evolution is just a theory after all if

583

00:25:01,430 --> 00:24:58,620

we came from monkeys then why are there

584

00:25:03,289 --> 00:25:01,440

still monkeys we all have friends and

585

00:25:05,810 --> 00:25:03,299

family who believe these things and much

586

00:25:07,850 --> 00:25:05,820

more well if you're a rational thinker

587

00:25:09,770 --> 00:25:07,860

who is tired of arguing on social media

588

00:25:11,990 --> 00:25:09,780

and never getting anywhere we have a

589

00:25:14,390 --> 00:25:12,000

solution for you join the gorilla

590

00:25:16,250 --> 00:25:14,400

skepticism and Wikipedia team and we

591

00:25:18,590 --> 00:25:16,260

will teach you how to add reliable

592

00:25:20,270 --> 00:25:18,600

scientific and skeptical information to

593

00:25:22,850 --> 00:25:20,280

the world's number one source of

594

00:25:25,250 --> 00:25:22,860

information Wikipedia we write new

595

00:25:27,110 --> 00:25:25,260

articles and improve existing ones we

596

00:25:29,269 --> 00:25:27,120

remove pseudoscience paranormal and

597

00:25:31,490 --> 00:25:29,279

ultimate claims substituting the actual

598

00:25:34,130 --> 00:25:31,500

facts and we operate in many languages

599

00:25:36,590 --> 00:25:34,140

we've already reached tens of millions

600

00:25:38,510 --> 00:25:36,600

of people searching for information but

601
00:25:41,630 --> 00:25:38,520
as you can imagine we can never do

602
00:25:44,029 --> 00:25:41,640
enough so please join us all you need is

603
00:25:46,490 --> 00:25:44,039
a PC and the desire to help educate the

604
00:25:49,750 --> 00:25:46,500
planet in fact you'll be educating the

605
00:25:53,750 --> 00:25:49,760
world while you sleep contact us at

606
00:25:56,450 --> 00:25:53,760
gsowteam gmail.com Guerrilla skepticism

607
00:26:00,310 --> 00:25:56,460
The Time Is Now music by

608
00:26:00,320 --> 00:26:03,649
thank you

609
00:26:09,830 --> 00:26:07,340
and now a reading from the book of Tim

610
00:26:16,330 --> 00:26:09,840
[Music]

611
00:26:17,430 --> 00:26:16,340
foreign

612
00:26:18,970 --> 00:26:17,440
[Music]

613
00:26:21,230 --> 00:26:18,980

[Laughter]

614

00:26:23,149 --> 00:26:21,240

I'm executive officer of Australian

615

00:26:26,029 --> 00:26:23,159

Skeptics Inc and I'm also editor of our

616

00:26:27,649 --> 00:26:26,039

quarterly magazine the skeptic and today

617

00:26:30,409 --> 00:26:27,659

I'm reading from the very first issue of

618

00:26:32,330 --> 00:26:30,419

escaping magazine came out 40 odd years

619

00:26:35,510 --> 00:26:32,340

ago we've been around that long from

620

00:26:38,330 --> 00:26:35,520

volume one number one which is from

621

00:26:39,830 --> 00:26:38,340

early 1981 and this is a story called

622

00:26:42,289 --> 00:26:39,840

Mass Hysteria

623

00:26:44,289 --> 00:26:42,299

it's by one of the Victorian committee

624

00:26:46,430 --> 00:26:44,299

members at the time Dr Alan Christophers

625

00:26:47,990 --> 00:26:46,440

and you can download this issue of the

626
00:26:50,630 --> 00:26:48,000
magazine yourself and have a read of it

627
00:26:52,909 --> 00:26:50,640
and all the exciting stories and most of

628
00:26:54,950 --> 00:26:52,919
the issues for the last 40 years are

629
00:26:58,669 --> 00:26:54,960
available online for free on their

630
00:27:00,890 --> 00:26:58,679
website skeptics.com but okay Alan says

631
00:27:02,750 --> 00:27:00,900
students of the Paranormal are familiar

632
00:27:04,669 --> 00:27:02,760
with claims of miraculous cures of

633
00:27:06,590 --> 00:27:04,679
disease where the Improvement in

634
00:27:09,289 --> 00:27:06,600
conditions brought about by suggestion

635
00:27:11,210 --> 00:27:09,299
on the part of the Healer on the other

636
00:27:13,909 --> 00:27:11,220
side of the coin is a situation where

637
00:27:16,970 --> 00:27:13,919
diseases are generated by a process of

638
00:27:18,830 --> 00:27:16,980

suggestion in the popular book from the

639

00:27:22,010 --> 00:27:18,840

1950s I think it was the story of San

640

00:27:24,529 --> 00:27:22,020

Michelle but by accident winter himself

641

00:27:27,049 --> 00:27:24,539

a physician tells how he he

642

00:27:29,750 --> 00:27:27,059

incapacitated arrival by talking him

643

00:27:31,789 --> 00:27:29,760

into a disabling illness

644

00:27:33,890 --> 00:27:31,799

the phenomena arise perhaps more often

645

00:27:36,049 --> 00:27:33,900

amongst a group of people and is then

646

00:27:37,730 --> 00:27:36,059

usually called Mass Hysteria these are

647

00:27:39,769 --> 00:27:37,740

outbreaks of mass hysteria most often

648

00:27:41,450 --> 00:27:39,779

affect young adolescents

649

00:27:42,950 --> 00:27:41,460

the symptoms complained over those

650

00:27:44,990 --> 00:27:42,960

thought to be appropriate to the

651
00:27:47,149 --> 00:27:45,000
occasion the patients often believe they

652
00:27:49,190 --> 00:27:47,159
suffer from poisoning or infectious

653
00:27:51,289 --> 00:27:49,200
disease very often the outbreak is

654
00:27:52,850 --> 00:27:51,299
started by a trigger figure

655
00:27:54,830 --> 00:27:52,860
from whom the others copy the symptoms

656
00:27:55,730 --> 00:27:54,840
the symptoms of the trigger figure are

657
00:27:58,549 --> 00:27:55,740
usually

658
00:28:00,110 --> 00:27:58,559
but not necessarily imaginary

659
00:28:02,510 --> 00:28:00,120
one of these outbreaks occurred in

660
00:28:05,510 --> 00:28:02,520
Victoria in June last year which was

661
00:28:08,470 --> 00:28:05,520
1980. it involved about half of a group

662
00:28:11,149 --> 00:28:08,480
of 80 children from McKillip College

663
00:28:12,710 --> 00:28:11,159

werribee which is in Victoria who were

664

00:28:14,210 --> 00:28:12,720

holidaying in the country area of

665

00:28:15,890 --> 00:28:14,220

gippsland

666

00:28:18,710 --> 00:28:15,900

the trigger figure in this case was an

667

00:28:21,649 --> 00:28:18,720

adolescent girl who had an attack of the

668

00:28:23,269 --> 00:28:21,659

hyperventilation syndrome also known as

669

00:28:25,250 --> 00:28:23,279

Panic breathing

670

00:28:26,930 --> 00:28:25,260

the over breathing is due to emotional

671

00:28:29,090 --> 00:28:26,940

causes sometimes but not always in a

672

00:28:31,130 --> 00:28:29,100

panic situation the symptoms are real

673

00:28:33,470 --> 00:28:31,140

and will develop in anyone who over

674

00:28:35,029 --> 00:28:33,480

breathes the symptoms in this case were

675

00:28:37,430 --> 00:28:35,039

photophobia which is free of light

676
00:28:39,350 --> 00:28:37,440
blurred vision feelings of hot and cold

677
00:28:41,029 --> 00:28:39,360
and abdominal pain

678
00:28:42,110 --> 00:28:41,039
within a few hours half of the children

679
00:28:44,029 --> 00:28:42,120
were sick

680
00:28:45,529 --> 00:28:44,039
many were plainly hysterical in the

681
00:28:48,049 --> 00:28:45,539
ordinary sense but many had symptoms

682
00:28:50,690 --> 00:28:48,059
very similar to the trigger figure

683
00:28:52,610 --> 00:28:50,700
the combinations of abdominal pain with

684
00:28:54,950 --> 00:28:52,620
feelings of hot and cold suggested an

685
00:28:57,649 --> 00:28:54,960
epidemic of infectious gastroenteritis

686
00:28:59,930 --> 00:28:57,659
from food poisoning the outbreak had

687
00:29:02,450 --> 00:28:59,940
completely subsided as quickly as it

688
00:29:04,310 --> 00:29:02,460

arose that is within a few hours

689

00:29:06,350 --> 00:29:04,320

at least some of his children following

690

00:29:08,090 --> 00:29:06,360

the trigger figure had genuine attacks

691

00:29:10,310 --> 00:29:08,100

of over breathing and these no doubt

692

00:29:11,630 --> 00:29:10,320

added a touch of authenticity to the

693

00:29:13,909 --> 00:29:11,640

whole proceedings

694

00:29:15,409 --> 00:29:13,919

the next day there was no trouble but a

695

00:29:17,090 --> 00:29:15,419

recurrence occurred next day when the

696

00:29:20,269 --> 00:29:17,100

children were returning to werribee in

697

00:29:22,549 --> 00:29:20,279

two buses the second attack occurred it

698

00:29:24,590 --> 00:29:22,559

drew in her country town where they had

699

00:29:26,690 --> 00:29:24,600

stopped for a short break again it

700

00:29:28,909 --> 00:29:26,700

evolved about half the children mostly

701
00:29:30,769 --> 00:29:28,919
those involved in the first attack

702
00:29:32,570 --> 00:29:30,779
there were at least a few genuine cases

703
00:29:34,490 --> 00:29:32,580
of panic over breathing

704
00:29:37,010 --> 00:29:34,500
again the attacks subsided within a few

705
00:29:40,310 --> 00:29:37,020
hours one of the girls was detained at

706
00:29:41,810 --> 00:29:40,320
warrigal hospital for a short time

707
00:29:43,669 --> 00:29:41,820
although the children were apparently

708
00:29:45,350 --> 00:29:43,679
well on reaching home many were

709
00:29:47,630 --> 00:29:45,360
obviously apprehensive and wondering

710
00:29:49,490 --> 00:29:47,640
when they would fall victim to this

711
00:29:50,990 --> 00:29:49,500
mysterious disease

712
00:29:53,389 --> 00:29:51,000
it was not surprising therefore that

713
00:29:55,370 --> 00:29:53,399

isolated attacks continued sporadically

714

00:29:57,409 --> 00:29:55,380

amongst the children over the next few

715

00:29:58,549 --> 00:29:57,419

days and a number were admitted to

716

00:30:00,529 --> 00:29:58,559

hospital

717

00:30:02,510 --> 00:30:00,539

investigations by the Health commission

718

00:30:04,850 --> 00:30:02,520

indicated that the outbreak could not

719

00:30:06,710 --> 00:30:04,860

have been due to any organic disease

720

00:30:08,269 --> 00:30:06,720

as odd children were still succumbing it

721

00:30:10,250 --> 00:30:08,279

became necessary for the commission to

722

00:30:13,430 --> 00:30:10,260

reluctantly label the outbreak as

723

00:30:15,590 --> 00:30:13,440

hysteria this diagnosis was resisted by

724

00:30:17,930 --> 00:30:15,600

the school authorities generally and

725

00:30:19,130 --> 00:30:17,940

very fiercely resisted by parents who

726

00:30:20,630 --> 00:30:19,140

would not believe that their children

727

00:30:22,430 --> 00:30:20,640

were hysterical

728

00:30:23,810 --> 00:30:22,440

by coincidence another attack of

729

00:30:26,210 --> 00:30:23,820

Massachusetts area in children made

730

00:30:28,909 --> 00:30:26,220

headlines about a month later this

731

00:30:31,250 --> 00:30:28,919

attack involved almost 500 children who

732

00:30:32,269 --> 00:30:31,260

were attending a carnival in Nottingham

733

00:30:34,010 --> 00:30:32,279

England

734

00:30:36,230 --> 00:30:34,020

children in the jazz bands at the

735

00:30:37,669 --> 00:30:36,240

carnival started to collapse quote they

736

00:30:39,830 --> 00:30:37,679

were just trembling all over and

737

00:30:42,110 --> 00:30:39,840

fainting the hospital said that the

738

00:30:44,690 --> 00:30:42,120

symptoms were consistent with exposure

739

00:30:47,029 --> 00:30:44,700

to fumes of some sort causing nausea

740

00:30:48,169 --> 00:30:47,039

burning of the eyes and a metal taste in

741

00:30:50,930 --> 00:30:48,179

the mouth

742

00:30:53,510 --> 00:30:50,940

at first poisoning by insecticide was

743

00:30:54,710 --> 00:30:53,520

suspected but no traces of insecticide

744

00:30:56,690 --> 00:30:54,720

could be found

745

00:30:59,450 --> 00:30:56,700

eventually Expert Medical opinion

746

00:31:01,970 --> 00:30:59,460

diagnosis also was strongly resisted by

747

00:31:03,769 --> 00:31:01,980

the band organizers and by the parents

748

00:31:05,090 --> 00:31:03,779

it was typical of media reporting of

749

00:31:07,010 --> 00:31:05,100

such events that whilst the first

750

00:31:09,049 --> 00:31:07,020

account of the outbreak blaming

751
00:31:11,090 --> 00:31:09,059
insecticides was given headlines

752
00:31:13,010 --> 00:31:11,100
the subsequent disclaimer was published

753
00:31:15,049 --> 00:31:13,020
in a short paragraph hidden towards the

754
00:31:17,930 --> 00:31:15,059
back of the paper

755
00:31:20,090 --> 00:31:17,940
stereo requires for its generation a

756
00:31:22,610 --> 00:31:20,100
number of predisposing factors to set

757
00:31:26,210 --> 00:31:22,620
the stage it usually requires a large

758
00:31:27,710 --> 00:31:26,220
collection often of teenage girls in a

759
00:31:30,590 --> 00:31:27,720
situation fraught with considerable

760
00:31:32,690 --> 00:31:30,600
emotional tension or excitement

761
00:31:34,850 --> 00:31:32,700
the exciting cause is often a bad smell

762
00:31:37,130 --> 00:31:34,860
that suggests that presence of a

763
00:31:39,409 --> 00:31:37,140

poisonous gas and the attack is usually

764

00:31:41,269 --> 00:31:39,419

precipitated by a trigger figure

765

00:31:43,430 --> 00:31:41,279

this Trigon figure may be someone more

766

00:31:45,889 --> 00:31:43,440

suggestible than the others or maybe

767

00:31:47,510 --> 00:31:45,899

someone who happens to be genuinely ill

768

00:31:48,830 --> 00:31:47,520

and I would add it might also be someone

769

00:31:51,470 --> 00:31:48,840

who likes to influence other people

770

00:31:53,570 --> 00:31:51,480

those who follow the trigger via copy of

771

00:31:55,310 --> 00:31:53,580

their symptoms from the trigger figure

772

00:31:57,169 --> 00:31:55,320

most often the outbreak subsides as

773

00:31:58,850 --> 00:31:57,179

quickly as it started and this is

774

00:32:00,350 --> 00:31:58,860

usually associated with the removal of

775

00:32:02,389 --> 00:32:00,360

the patients from the situation they

776

00:32:03,289 --> 00:32:02,399

thought was responsible for their

777

00:32:05,630 --> 00:32:03,299

disease

778

00:32:07,130 --> 00:32:05,640

if the outbreak is small it often does

779

00:32:09,769 --> 00:32:07,140

not attract the attention of the media

780

00:32:11,630 --> 00:32:09,779

if it is reported it is usually ascribed

781

00:32:13,730 --> 00:32:11,640

to some poisonous agent

782

00:32:15,889 --> 00:32:13,740

and further investigations reveals the

783

00:32:17,450 --> 00:32:15,899

historical nature of the illness the

784

00:32:19,549 --> 00:32:17,460

media have lost interest and the true

785

00:32:20,870 --> 00:32:19,559

diagnosis is rarely revealed to the

786

00:32:22,730 --> 00:32:20,880

public

787

00:32:24,470 --> 00:32:22,740

one could not be blamed for believing

788

00:32:26,810 --> 00:32:24,480

that there was a conspiracy of Silence

789

00:32:29,210 --> 00:32:26,820

the media are interested in reporting a

790

00:32:31,250 --> 00:32:29,220

poisoning but I'm not so interested in

791

00:32:32,870 --> 00:32:31,260

reporting the final diagnosis that it

792

00:32:34,310 --> 00:32:32,880

was all in the mind

793

00:32:35,930 --> 00:32:34,320

the patients and their parents are

794

00:32:38,810 --> 00:32:35,940

naturally unwilling to accept the fact

795

00:32:40,190 --> 00:32:38,820

that the illness was not genuine

796

00:32:42,889 --> 00:32:40,200

not to be forgotten of the medical

797

00:32:44,870 --> 00:32:42,899

practitioners who early diagnose some

798

00:32:46,430 --> 00:32:44,880

organic disease and who would look a

799

00:32:47,630 --> 00:32:46,440

little foolish by a revelation of the

800

00:32:50,149 --> 00:32:47,640

truth

801
00:32:51,049 --> 00:32:50,159
small outbreaks of masturia are fairly

802
00:32:53,389 --> 00:32:51,059
common

803
00:32:55,010 --> 00:32:53,399
but for the reasons given above most of

804
00:32:56,930 --> 00:32:55,020
them are not publicized

805
00:32:59,090 --> 00:32:56,940
through rather remarkable feature of the

806
00:33:01,190 --> 00:32:59,100
episode involving them at Kilip College

807
00:33:02,930 --> 00:33:01,200
children which had given the appearance

808
00:33:04,730 --> 00:33:02,940
of a mysterious infectious disease

809
00:33:06,350 --> 00:33:04,740
rather than a poisoning

810
00:33:08,510 --> 00:33:06,360
for this reason the outbreak was not

811
00:33:10,850 --> 00:33:08,520
cured by The Return of the children to

812
00:33:12,950 --> 00:33:10,860
their homes the children continued to

813
00:33:14,810 --> 00:33:12,960

wonder when they would be Smitten by

814

00:33:17,389 --> 00:33:14,820

this mysterious disease

815

00:33:20,149 --> 00:33:17,399

the State of Mind was responsible for

816

00:33:22,190 --> 00:33:20,159

the Persistence of isolated cases among

817

00:33:24,169 --> 00:33:22,200

the children after they returned home

818

00:33:25,909 --> 00:33:24,179

it was this Persistence of the outbreak

819

00:33:28,250 --> 00:33:25,919

which forced the Victorian Health

820

00:33:29,330 --> 00:33:28,260

commission to divulge the unpalatable

821

00:33:32,149 --> 00:33:29,340

truth

822

00:33:36,970 --> 00:33:32,159

about the Genesis of the outbreak

823

00:33:42,830 --> 00:33:40,009

magazine volume one number one which

824

00:33:44,269 --> 00:33:42,840

came out in early 1981.

825

00:33:47,029 --> 00:33:44,279

you can download that issue of the

826
00:33:49,789 --> 00:33:47,039
magazine it's only very small from our

827
00:33:51,049 --> 00:33:49,799
website skeptics.com

828
00:33:53,690 --> 00:33:51,059
and you can download a lot of other

829
00:34:03,970 --> 00:33:53,700
issues of the magazine as well so and

830
00:34:12,369 --> 00:34:05,530
thank you

831
00:34:42,369 --> 00:34:12,379
[Music]

832
00:34:42,379 --> 00:34:51,750
www.skepticzone.tv homepage

833
00:35:29,270 --> 00:35:09,300
[Music]

834
00:35:35,650 --> 00:35:31,670
now it's time once again to look into

835
00:35:37,609 --> 00:35:35,660
those pages at Trove at

836
00:35:39,050 --> 00:35:37,619
trove.nla.gov.au the online resource

837
00:35:40,849 --> 00:35:39,060
from the Australian government in the

838
00:35:43,970 --> 00:35:40,859

National Library of Australia you know

839

00:35:47,089 --> 00:35:43,980

it so well where I go to find digital

840

00:35:48,050 --> 00:35:47,099

goodies archived news reports from the

841

00:35:52,849 --> 00:35:48,060

past

842

00:35:54,890 --> 00:35:52,859

simply numbering in their Millions a

843

00:35:56,990 --> 00:35:54,900

wonderful Treasure Trove of information

844

00:35:59,349 --> 00:35:57,000

and his straight

845

00:36:02,510 --> 00:35:59,359

indeed now last week we were looking at

846

00:36:04,310 --> 00:36:02,520

Ogopogo the Canadian lake monster so

847

00:36:07,550 --> 00:36:04,320

this week I thought we would look into

848

00:36:09,950 --> 00:36:07,560

lake monsters from around the world so

849

00:36:13,609 --> 00:36:09,960

I'm going to confine this segment to

850

00:36:15,230 --> 00:36:13,619

just one one report and this comes from

851

00:36:17,710 --> 00:36:15,240

the camera times dated the 3rd of

852

00:36:22,670 --> 00:36:17,720

November 1990.

853

00:36:25,910 --> 00:36:22,680

do dinosaurs still live hundreds will

854

00:36:32,200 --> 00:36:25,920

say yes and this is the story by Paul

855

00:36:36,890 --> 00:36:34,730

[Music]

856

00:36:40,550 --> 00:36:36,900

of course we barely

857

00:36:43,010 --> 00:36:40,560

Baron report was written 33 years ago

858

00:36:45,890 --> 00:36:43,020

in this high-tech age of telescopic

859

00:36:48,550 --> 00:36:45,900

cameras infrared night scope satellites

860

00:36:51,950 --> 00:36:48,560

aerial surveys and sophisticated sonar

861

00:36:54,970 --> 00:36:51,960

surely it isn't possible for any large

862

00:36:57,829 --> 00:36:54,980

mysterious creature to remain undetected

863

00:37:02,290 --> 00:36:57,839

surely dinosaur-like creatures cannot

864

00:37:04,730 --> 00:37:02,300

exist anyway but it is highly likely

865

00:37:07,190 --> 00:37:04,740

they do

866

00:37:09,710 --> 00:37:07,200

strange monsters inhabit numerous Lakes

867

00:37:13,310 --> 00:37:09,720

throughout the world and not just Loch

868

00:37:16,990 --> 00:37:13,320

Ness unknown beasts have been seen at

869

00:37:19,609 --> 00:37:17,000

Sea are these sea serpents do

870

00:37:21,829 --> 00:37:19,619

brontosaurus still exist in Africa is

871

00:37:23,450 --> 00:37:21,839

it possible that pterodactyls still fly

872

00:37:27,829 --> 00:37:23,460

our skies

873

00:37:29,750 --> 00:37:27,839

the monster of the lake is probably the

874

00:37:32,270 --> 00:37:29,760

most witnessed and photographed of all

875

00:37:34,630 --> 00:37:32,280

unknown phenomena in our time

876

00:37:38,810 --> 00:37:34,640

I'll break here and probably say

877

00:37:39,890 --> 00:37:38,820

possibly not possibly UFOs anyway we

878

00:37:42,470 --> 00:37:39,900

read on

879

00:37:45,890 --> 00:37:42,480

most people who have seen such creatures

880

00:37:48,410 --> 00:37:45,900

are highly respectable surely not all of

881

00:37:50,810 --> 00:37:48,420

them were saying things in Lake

882

00:37:54,170 --> 00:37:50,820

Champlain in America there is a monster

883

00:37:57,349 --> 00:37:54,180

called champ at least 91 people will

884

00:38:00,410 --> 00:37:57,359

tell you this is so it has been

885

00:38:03,050 --> 00:38:00,420

described as having a long neck a rather

886

00:38:06,650 --> 00:38:03,060

Serpentine body up to nine meters long

887

00:38:08,690 --> 00:38:06,660

and darkish skin champ scared the

888

00:38:13,069 --> 00:38:08,700

Daylights out of a New York High Society

889

00:38:15,950 --> 00:38:13,079

Steamboat Excursion in the 1870s when it

890

00:38:18,950 --> 00:38:15,960

surfaced nearby the famous showman PT

891

00:38:22,910 --> 00:38:18,960

Barnum even put a 50

892

00:38:26,150 --> 00:38:22,920

000 price on Champs carcass

893

00:38:29,109 --> 00:38:26,160

more recently two skin divers Morris

894

00:38:33,109 --> 00:38:29,119

Lucia I think that's pronounced and Fred

895

00:38:35,630 --> 00:38:33,119

Shanna felt were diving in Magnum Bay on

896

00:38:38,690 --> 00:38:35,640

Lake Champlain searching for a sunken

897

00:38:41,150 --> 00:38:38,700

cabin cruiser when Lucia unexpectedly

898

00:38:44,390 --> 00:38:41,160

gestured for his partner to surface

899

00:38:47,690 --> 00:38:44,400

Shanna felt thinking there was some

900

00:38:50,870 --> 00:38:47,700

danger surfaced with Lucia and looking

901
00:38:54,950 --> 00:38:50,880
around saw what had given Lucia such a

902
00:38:57,770 --> 00:38:54,960
scare a huge monster mushroom gray and

903
00:39:00,290 --> 00:38:57,780
at least 12 meters long was swimming

904
00:39:03,410 --> 00:39:00,300
right beside them

905
00:39:06,230 --> 00:39:03,420
Lucia said later it didn't make any

906
00:39:08,630 --> 00:39:06,240
effort to harm us once it cocked its

907
00:39:11,630 --> 00:39:08,640
head as if curious about our appearance

908
00:39:14,569 --> 00:39:11,640
I think we could have gone right back

909
00:39:16,790 --> 00:39:14,579
into the water without being hurt of

910
00:39:18,109 --> 00:39:16,800
course I wouldn't have done that for a

911
00:39:20,510 --> 00:39:18,119
million dollars

912
00:39:23,150 --> 00:39:20,520
Manny Pogo is the name given to the

913
00:39:25,310 --> 00:39:23,160

monster cited in the Canadian Lakes of

914

00:39:28,310 --> 00:39:25,320

winnipegosis I hope that's pronounced

915

00:39:31,069 --> 00:39:28,320

and Manitoba it has always been

916

00:39:33,130 --> 00:39:31,079

described as being slate gray with humps

917

00:39:35,510 --> 00:39:33,140

and a horn sticking out of its flat

918

00:39:38,329 --> 00:39:35,520

snake-like head

919

00:39:41,510 --> 00:39:38,339

when many Pogo Rose in front of a large

920

00:39:45,470 --> 00:39:41,520

group of picnickers at Manitoba park on

921

00:39:46,970 --> 00:39:45,480

the Lake Shore in 1960 there was instant

922

00:39:48,530 --> 00:39:46,980

if

923

00:39:51,349 --> 00:39:48,540

hilarious

924

00:39:53,690 --> 00:39:51,359

pandemonium grabbing their cameras one

925

00:39:57,170 --> 00:39:53,700

woman rushed to the water's edge and

926
00:40:00,170 --> 00:39:57,180
promptly fell in another woman camera in

927
00:40:03,710 --> 00:40:00,180
hand rushed to her husband but forgot to

928
00:40:05,390 --> 00:40:03,720
take a picture first the designer of the

929
00:40:08,450 --> 00:40:05,400
park Tom Lake

930
00:40:09,950 --> 00:40:08,460
that's a great name for him yeah a

931
00:40:14,089 --> 00:40:09,960
designer of a park at a lake I suppose

932
00:40:17,870 --> 00:40:14,099
Tom Lake who had a cine camera which was

933
00:40:21,589 --> 00:40:17,880
like a a movie camera a cine camera with

934
00:40:24,290 --> 00:40:21,599
him at the time calmly and Cooley filmed

935
00:40:26,630 --> 00:40:24,300
the monster until it submerged then he

936
00:40:31,130 --> 00:40:26,640
discovered there was no film in the

937
00:40:33,290 --> 00:40:31,140
camera no dear Mr R A Adams chased the

938
00:40:37,430 --> 00:40:33,300

creature along the shore and saw it

939

00:40:39,290 --> 00:40:37,440

joined by a mate and a baby monster

940

00:40:42,310 --> 00:40:39,300

I wish I could have been there

941

00:40:45,050 --> 00:40:42,320

Steve rahalock his wife and two children

942

00:40:47,630 --> 00:40:45,060

all got a good view too

943

00:40:49,730 --> 00:40:47,640

we were sitting at a picnic table there

944

00:40:52,670 --> 00:40:49,740

was a ripple in the water when I first

945

00:40:54,170 --> 00:40:52,680

looked there was only one but then I ran

946

00:40:58,790 --> 00:40:54,180

to the shore and I could see another

947

00:41:00,650 --> 00:40:58,800

beside it and a third trailing behind he

948

00:41:04,010 --> 00:41:00,660

thought they all looked like three black

949

00:41:08,270 --> 00:41:04,020

snakes all in all 17 people observed

950

00:41:09,890 --> 00:41:08,280

Manitoba and family that day but no one

951
00:41:13,490 --> 00:41:09,900
got a picture

952
00:41:16,849 --> 00:41:13,500
in Lake Okanagan in western Canada there

953
00:41:19,670 --> 00:41:16,859
is yet another strange monster Ogo Pogo

954
00:41:21,109 --> 00:41:19,680
its name being derived from a musical

955
00:41:23,810 --> 00:41:21,119
song

956
00:41:26,810 --> 00:41:23,820
actually I'm not sure if that

957
00:41:28,849 --> 00:41:26,820
is correct with the name maybe I can

958
00:41:33,290 --> 00:41:28,859
delve into that later

959
00:41:35,390 --> 00:41:33,300
in 1977 Mrs Lillian Fogle guessing I

960
00:41:37,670 --> 00:41:35,400
think that's pronounced got a terrifying

961
00:41:40,670 --> 00:41:37,680
shock when her little daughter playing

962
00:41:43,430 --> 00:41:40,680
by the Lakeshore began screaming Mrs

963
00:41:46,190 --> 00:41:43,440

Fogle guessing saw a 15 meter long

964

00:41:48,890 --> 00:41:46,200

creature twisting and thrashing water

965

00:41:52,190 --> 00:41:48,900

frothing around its humps chasing fish

966

00:41:55,730 --> 00:41:52,200

close to the shore it was olive green in

967

00:41:57,890 --> 00:41:55,740

color with glistening smooth skin and

968

00:42:02,150 --> 00:41:57,900

what looked like flippers on another

969

00:42:04,609 --> 00:42:02,160

occasion Aaron Neely was water skiing on

970

00:42:07,310 --> 00:42:04,619

the lake when something dark and huge

971

00:42:10,790 --> 00:42:07,320

rushed past her upsetting her from her

972

00:42:13,970 --> 00:42:10,800

skis she said the creature was only an

973

00:42:16,849 --> 00:42:13,980

arm's length away while she trod water

974

00:42:19,670 --> 00:42:16,859

when brought to the shore she was taken

975

00:42:22,190 --> 00:42:19,680

to hospital for shock treatment

976

00:42:26,329 --> 00:42:22,200

there is even a monster in Japan's like

977

00:42:29,150 --> 00:42:26,339

ikida it has been described as vast and

978

00:42:31,970 --> 00:42:29,160

having two widely spaced humps

979

00:42:34,490 --> 00:42:31,980

issy as the monster is called and I hope

980

00:42:37,310 --> 00:42:34,500

I've pronounced that correctly has even

981

00:42:40,849 --> 00:42:37,320

had a special Observatory built in its

982

00:42:43,670 --> 00:42:40,859

honor enthusiastic issy supporters once

983

00:42:46,310 --> 00:42:43,680

poured sake into the lake hoping is he

984

00:42:47,930 --> 00:42:46,320

would become Topsy and come to the

985

00:42:50,450 --> 00:42:47,940

surface to frolic

986

00:42:53,750 --> 00:42:50,460

of course the most famous of all the

987

00:42:55,730 --> 00:42:53,760

lake monsters is Nessie of Loch Ness who

988

00:42:59,630 --> 00:42:55,740

has the distinction of having being

989

00:43:01,910 --> 00:42:59,640

cited by more than 3 000 people Nessie

990

00:43:04,970 --> 00:43:01,920

has been filmed photographed subjected

991

00:43:08,210 --> 00:43:04,980

to sonar scans and submarines and has

992

00:43:11,470 --> 00:43:08,220

scared divers and fishermen but has

993

00:43:14,930 --> 00:43:11,480

still remained mysterious and Elusive

994

00:43:17,990 --> 00:43:14,940

Loch Ness in Northern Scotland is 39

995

00:43:20,690 --> 00:43:18,000

kilometers long and up to 300 meters

996

00:43:23,329 --> 00:43:20,700

deep bordered by sheer mountains on one

997

00:43:25,910 --> 00:43:23,339

side Loch Ness is an eerie and

998

00:43:29,030 --> 00:43:25,920

forbidding Place its Waters constantly

999

00:43:33,710 --> 00:43:29,040

dark and murky the first photograph of

1000

00:43:36,109 --> 00:43:33,720

Nessie was taken in 1933 by Hugh gray a

1001
00:43:38,630 --> 00:43:36,119
worker at the local British Aluminum

1002
00:43:41,150 --> 00:43:38,640
Company it was a Sunday after church

1003
00:43:44,990 --> 00:43:41,160
when gray took his usual walk along the

1004
00:43:47,930 --> 00:43:45,000
lock the lock was like a Mill Pond and

1005
00:43:50,510 --> 00:43:47,940
the Sun was shining brightly an object

1006
00:43:54,650 --> 00:43:50,520
considerable Dimensions rose out of the

1007
00:43:56,930 --> 00:43:54,660
water not so very far from where I was

1008
00:43:59,089 --> 00:43:56,940
I immediately got my camera ready and

1009
00:44:00,890 --> 00:43:59,099
snapped the object which was two to

1010
00:44:03,530 --> 00:44:00,900
three feet above the surface of the

1011
00:44:06,069 --> 00:44:03,540
water a previously unreported encounter

1012
00:44:09,470 --> 00:44:06,079
took place on July 22

1013
00:44:11,690 --> 00:44:09,480

1933. Mr and Mrs George Spicer on

1014

00:44:13,550 --> 00:44:11,700

holiday in Scotland were driving along a

1015

00:44:16,670 --> 00:44:13,560

narrow road that ran beside the lock

1016

00:44:20,270 --> 00:44:16,680

when they were suddenly confronted by an

1017

00:44:23,990 --> 00:44:20,280

awesome sight a nine meter bulky grayish

1018

00:44:26,990 --> 00:44:24,000

creature with a 3.6 meter long neck came

1019

00:44:30,230 --> 00:44:27,000

crashing out of the Bracken on the

1020

00:44:32,270 --> 00:44:30,240

hillside moving ponderously across the

1021

00:44:33,470 --> 00:44:32,280

road it plunged into the lock and

1022

00:44:37,130 --> 00:44:33,480

disappeared

1023

00:44:39,550 --> 00:44:37,140

during that year a flurry of sightings

1024

00:44:42,950 --> 00:44:39,560

took place the monster's description

1025

00:44:46,190 --> 00:44:42,960

varied always consisted of two humps a

1026
00:44:48,710 --> 00:44:46,200
long tail and a snake-like head and neck

1027
00:44:51,430 --> 00:44:48,720
that was usually seen protruding from

1028
00:44:53,630 --> 00:44:51,440
the water all these sightings brought

1029
00:44:56,030 --> 00:44:53,640
worldwide publicity and floods of

1030
00:44:57,470 --> 00:44:56,040
reporters Monster Hunters sightseers and

1031
00:44:59,870 --> 00:44:57,480
researchers to the lock

1032
00:45:02,290 --> 00:44:59,880
in well over half a century that flood

1033
00:45:05,450 --> 00:45:02,300
has never really abated

1034
00:45:08,630 --> 00:45:05,460
are all these like Monsters a type of

1035
00:45:10,690 --> 00:45:08,640
surviving dinosaur the most common

1036
00:45:13,370 --> 00:45:10,700
theory is that Nessie and friends are

1037
00:45:16,010 --> 00:45:13,380
plesiosaurs a giant fish eating reptile

1038
00:45:18,130 --> 00:45:16,020

supposed to have become extinct 70

1039

00:45:20,630 --> 00:45:18,140

million years ago skeleton

1040

00:45:23,510 --> 00:45:20,640

reconstructions of fossil plesiosaurs

1041

00:45:26,210 --> 00:45:23,520

certainly fit many of the lake monsters

1042

00:45:28,190 --> 00:45:26,220

descriptions others believe that these

1043

00:45:30,589 --> 00:45:28,200

lake monsters are giant eels or a race

1044

00:45:33,950 --> 00:45:30,599

of monster worm-like amphibious

1045

00:45:35,930 --> 00:45:33,960

creatures then again there's the notion

1046

00:45:39,050 --> 00:45:35,940

that the lake monsters are a species of

1047

00:45:43,010 --> 00:45:39,060

giant salamander and that Nessie is a

1048

00:45:46,370 --> 00:45:43,020

type of huge shellless snail

1049

00:45:48,530 --> 00:45:46,380

Carl hagenbeck the great Hamburg Zoo

1050

00:45:50,690 --> 00:45:48,540

collector heard many stories from

1051
00:45:54,410 --> 00:45:50,700
explorers and natives of huge creatures

1052
00:45:56,870 --> 00:45:54,420
half elephant half dragon existing in

1053
00:45:58,790 --> 00:45:56,880
the swamps of Africa an expedition to

1054
00:46:01,190 --> 00:45:58,800
Zambia discovered cave drawings

1055
00:46:02,290 --> 00:46:01,200
depicting a giant sauropod dinosaur

1056
00:46:05,990 --> 00:46:02,300
called

1057
00:46:09,470 --> 00:46:06,000
brontosaurus or as it is now more

1058
00:46:12,109 --> 00:46:09,480
correctly called the Apatosaurus and I

1059
00:46:15,349 --> 00:46:12,119
think in the years since then the names

1060
00:46:18,170 --> 00:46:15,359
have changed a little bit again science

1061
00:46:19,790 --> 00:46:18,180
Marches On And The Story Goes On a bit

1062
00:46:22,910 --> 00:46:19,800
later to say because it is quite a

1063
00:46:25,069 --> 00:46:22,920

lengthy piece If dinosaurs still inhabit

1064

00:46:28,190 --> 00:46:25,079

Lakes then surely some of them would

1065

00:46:28,970 --> 00:46:28,200

still dwell in the unknown depths of the

1066

00:46:32,329 --> 00:46:28,980

sea

1067

00:46:35,390 --> 00:46:32,339

in the North Atlantic in 1959 to

1068

00:46:38,210 --> 00:46:35,400

Scotsman had a vivid sighting off the

1069

00:46:41,569 --> 00:46:38,220

Isle of sorry one of the men was Tex

1070

00:46:44,210 --> 00:46:41,579

Geddes the other a holidaying engineer

1071

00:46:47,870 --> 00:46:44,220

inspector James Gavin while fishing

1072

00:46:49,849 --> 00:46:47,880

mackerel One Fine Day Gavin noticed a

1073

00:46:51,950 --> 00:46:49,859

strange black shape a couple of

1074

00:46:54,230 --> 00:46:51,960

kilometers away the object appeared to

1075

00:46:56,690 --> 00:46:54,240

be getting closer all the time I'm

1076
00:46:59,089 --> 00:46:56,700
afraid we both stared in amazement as

1077
00:47:01,370 --> 00:46:59,099
the object came towards us explain to

1078
00:47:04,309 --> 00:47:01,380
get us afterwards for this Beast

1079
00:47:08,030 --> 00:47:04,319
steaming slowly in our Direction was

1080
00:47:10,370 --> 00:47:08,040
like some hellish monster of prehistoric

1081
00:47:13,670 --> 00:47:10,380
times the head was definitely reptilian

1082
00:47:17,030 --> 00:47:13,680
about two and a half feet 75 centimeters

1083
00:47:20,030 --> 00:47:17,040
high with large protruding eyes I would

1084
00:47:22,670 --> 00:47:20,040
say we saw eight to ten feet two and a

1085
00:47:25,250 --> 00:47:22,680
half to three meters of the back in the

1086
00:47:27,829 --> 00:47:25,260
water a similar strange creature

1087
00:47:32,450 --> 00:47:27,839
dramatically appeared in the middle of a

1088
00:47:33,040 --> 00:47:32,460

U-Boat action U-Boat u28 well we could

1089

00:47:35,589 --> 00:47:33,050

say

1090

00:47:38,750 --> 00:47:35,599

[Music]

1091

00:47:41,809 --> 00:47:38,760

under the command of Captain Georg Von

1092

00:47:46,010 --> 00:47:41,819

forstner had just sunk a British cargo

1093

00:47:48,349 --> 00:47:46,020

steamer the steamer sank quietly then

1094

00:47:50,829 --> 00:47:48,359

there was a violent underwater explosion

1095

00:47:54,290 --> 00:47:50,839

followed by pieces of Ricky gende

1096

00:47:56,930 --> 00:47:54,300

writhing struggling gigantic sea animal

1097

00:47:59,690 --> 00:47:56,940

erupting out of the water

1098

00:48:02,750 --> 00:47:59,700

Ron fostner described the creature as

1099

00:48:06,109 --> 00:48:02,760

being like a crocodile in shape it had

1100

00:48:08,750 --> 00:48:06,119

four limbs with powerful webbed feet and

1101

00:48:11,210 --> 00:48:08,760

a long tail taping to a point

1102

00:48:14,569 --> 00:48:11,220

either Australia can boast its own sea

1103

00:48:18,170 --> 00:48:14,579

serpent in December 1964 a Frenchman

1104

00:48:20,329 --> 00:48:18,180

named Robert Lee Sorak who lived on Hood

1105

00:48:21,970 --> 00:48:20,339

Island in Queensland was taking his

1106

00:48:25,370 --> 00:48:21,980

family across

1107

00:48:27,470 --> 00:48:25,380

Stonehaven Bay in a small motor Cruiser

1108

00:48:30,650 --> 00:48:27,480

they came across what looked like a

1109

00:48:34,510 --> 00:48:30,660

floating tree as they approached it Li

1110

00:48:37,609 --> 00:48:34,520

serak observed that it had a vast

1111

00:48:40,130 --> 00:48:37,619

eel-like body hastily he took his family

1112

00:48:44,510 --> 00:48:40,140

back to shore then accompanied by a

1113

00:48:46,609 --> 00:48:44,520

diver named Hank DeYoung Le sack went

1114

00:48:49,730 --> 00:48:46,619

back to where he had seen the injured

1115

00:48:52,790 --> 00:48:49,740

monster which he hoped to film The

1116

00:48:55,190 --> 00:48:52,800

Creature had a huge head and a large

1117

00:48:58,670 --> 00:48:55,200

mouth crammed with small teeth its body

1118

00:49:01,430 --> 00:48:58,680

had no scales had a pointed tail and was

1119

00:49:04,670 --> 00:49:01,440

some 21 meters in length the creature

1120

00:49:06,829 --> 00:49:04,680

had a gaping wound in its side and had

1121

00:49:09,890 --> 00:49:06,839

probably come into the shallow Waters of

1122

00:49:12,109 --> 00:49:09,900

the bay to escape sharks a as Lee sarak

1123

00:49:16,490 --> 00:49:12,119

was filming the creature it slowly slid

1124

00:49:18,170 --> 00:49:16,500

off into deeper water way back in 1890 a

1125

00:49:20,930 --> 00:49:18,180

school teacher named Miss Lovell

1126
00:49:24,589 --> 00:49:20,940
reported seeing off the Queensland Coast

1127
00:49:27,290 --> 00:49:24,599
a creature half turtle and half fish

1128
00:49:30,170 --> 00:49:27,300
some nine meters in length the local

1129
00:49:33,829 --> 00:49:30,180
Aborigines had always known of such a

1130
00:49:35,329 --> 00:49:33,839
creature and called it a Muhammad I

1131
00:49:38,210 --> 00:49:35,339
think that's pronounced

1132
00:49:42,829 --> 00:49:38,220
for those of you who wish to know that

1133
00:49:47,569 --> 00:49:45,230
the oceans cover at least two-thirds of

1134
00:49:50,390 --> 00:49:47,579
the world's surface and their depths are

1135
00:49:53,150 --> 00:49:50,400
some of the least explored areas in the

1136
00:49:55,490 --> 00:49:53,160
world there have been numerous sightings

1137
00:49:58,550 --> 00:49:55,500
and collected evidence supporting the

1138
00:50:01,970 --> 00:49:58,560

existence of giant squid and octopi as

1139

00:50:03,430 --> 00:50:01,980

well as sea serpent so it is also

1140

00:50:05,750 --> 00:50:03,440

possible that

1141

00:50:06,589 --> 00:50:05,760

dinosaur-like creatures lurk in the

1142

00:50:10,480 --> 00:50:06,599

oceans

1143

00:50:12,050 --> 00:50:10,490

stranger things have happened at sea

1144

00:50:14,329 --> 00:50:12,060

[Music]

1145

00:50:16,730 --> 00:50:14,339

and we get to the conclusion of the

1146

00:50:18,910 --> 00:50:16,740

report could so many people who have

1147

00:50:21,290 --> 00:50:18,920

claimed they have seen sea monsters

1148

00:50:23,990 --> 00:50:21,300

brontosaurus pterodactyls and Lake

1149

00:50:24,950 --> 00:50:24,000

creatures like the Loch Ness monster be

1150

00:50:27,470 --> 00:50:24,960

wrong

1151

00:50:29,750 --> 00:50:27,480

it is true that a number of recorded

1152

00:50:33,290 --> 00:50:29,760

sightings are due to mistaken natural

1153

00:50:36,349 --> 00:50:33,300

phenomena or hoaxes like the one where a

1154

00:50:39,770 --> 00:50:36,359

Yorkshire zoo owner managed to fool

1155

00:50:43,010 --> 00:50:39,780

everyone for a day or so into believing

1156

00:50:46,069 --> 00:50:43,020

that one of the dead elephant seals was

1157

00:50:48,950 --> 00:50:46,079

a basking Nessie but the overwhelming

1158

00:50:52,130 --> 00:50:48,960

statistics of sightings collated with

1159

00:50:55,370 --> 00:50:52,140

what evidence there is points strongly

1160

00:50:58,010 --> 00:50:55,380

to the fact that strange creatures

1161

00:51:01,549 --> 00:50:58,020

possibly remnants from the dinosaur age

1162

00:51:04,430 --> 00:51:01,559

inhabit the unplumbed depths of lakes

1163

00:51:05,589 --> 00:51:04,440

and oceans and unexplored Waters of the

1164

00:51:08,630 --> 00:51:05,599

earth

1165

00:51:11,030 --> 00:51:08,640

until recently only a small number of

1166

00:51:13,309 --> 00:51:11,040

scientists and zoologists were inclined

1167

00:51:15,410 --> 00:51:13,319

to be involved in proving the

1168

00:51:18,650 --> 00:51:15,420

authenticity of these mysterious

1169

00:51:21,829 --> 00:51:18,660

creatures now full-scale Expeditions

1170

00:51:23,450 --> 00:51:21,839

armed with the most modern equipment are

1171

00:51:27,770 --> 00:51:23,460

occurring if

1172

00:51:30,770 --> 00:51:27,780

continue and persevere it may not be too

1173

00:51:35,930 --> 00:51:30,780

long before we know for sure that some

1174

00:51:35,940 --> 00:51:38,540

foreign

1175

00:51:50,930 --> 00:51:44,460

[Music]

1176
00:51:53,450 --> 00:51:50,940
despite the best efforts of Monster

1177
00:51:56,210 --> 00:51:53,460
Hunters cryptozoologists and dedicated

1178
00:52:00,370 --> 00:51:56,220
scientists regardless not one of these

1179
00:52:03,010 --> 00:52:00,380
mysterious creatures has come to light

1180
00:52:05,750 --> 00:52:03,020
what a fascinating topic it is

1181
00:52:09,650 --> 00:52:05,760
cryptozoology in general and in this

1182
00:52:15,250 --> 00:52:09,660
case sea and lake monsters in particular

1183
00:52:18,470 --> 00:52:15,260
[Music]

1184
00:52:20,329 --> 00:52:18,480
the mysteries of the deep and you can

1185
00:52:24,010 --> 00:52:20,339
explore those mysteries for yourself in

1186
00:52:26,450 --> 00:52:24,020
the pages of Trove at

1187
00:52:29,630 --> 00:52:26,460
trove.nla.gov.au because when you dive

1188
00:52:34,340 --> 00:52:29,640

into those Mysteries you never know what

1189

00:52:34,350 --> 00:52:48,590

[Music]

1190

00:52:51,829 --> 00:52:49,910

[Applause]

1191

00:52:54,829 --> 00:52:51,839

thank you for listening to the skeptic

1192

00:52:58,250 --> 00:52:54,839

Zone and thank you to Dr Eugenie Scott

1193

00:53:00,710 --> 00:52:58,260

and Susan Gerbick for their wonderful

1194

00:53:02,329 --> 00:53:00,720

interviews this week thank you to those

1195

00:53:05,270 --> 00:53:02,339

people who continue to support the

1196

00:53:08,809 --> 00:53:05,280

skeptic Zone at skepticzone.tv Via

1197

00:53:10,910 --> 00:53:08,819

patreon or PayPal much appreciated and

1198

00:53:13,490 --> 00:53:10,920

of course necessary

1199

00:53:15,430 --> 00:53:13,500

and thank you to those people who have

1200

00:53:17,990 --> 00:53:15,440

just come on board to be

1201

00:53:20,150 --> 00:53:18,000

sponsors as well

1202

00:53:24,109 --> 00:53:20,160

but for this week this is Richard

1203

00:53:29,089 --> 00:53:24,119

Saunders signing off from quite near San

1204

00:53:35,650 --> 00:53:31,010

you've been listening to the skeptic

1205

00:53:37,990 --> 00:53:35,660

Zone podcast please visit our website at

1206

00:53:41,150 --> 00:53:38,000

www.skepticzone.tv for show notes

1207

00:53:44,750 --> 00:53:41,160

contacts and to access the bat catalog

1208

00:53:46,730 --> 00:53:44,760

of episodes going back to 2008.

1209

00:53:50,270 --> 00:53:46,740

you can follow the skeptic Zone podcast

1210

00:53:52,609 --> 00:53:50,280

on Twitter at [skepticzone](https://twitter.com/skepticzone) visit our

1211

00:53:53,870 --> 00:53:52,619

Facebook page or leave a review on

1212

00:53:56,030 --> 00:53:53,880

iTunes

1213

00:53:59,270 --> 00:53:56,040

you can also support the skeptic Zone

1214

00:54:02,750 --> 00:53:59,280

via patreon or PayPal the skeptic Zone

1215

00:54:04,430 --> 00:54:02,760

podcast is an independent production the

1216

00:54:06,589 --> 00:54:04,440

views and opinions expressed on the

1217

00:54:08,930 --> 00:54:06,599

skeptic zone are not necessarily those

1218

00:54:10,550 --> 00:54:08,940

of Australian Skeptics or any other

1219

00:54:14,089 --> 00:54:10,560

skeptical organization

1220

00:54:24,730 --> 00:54:14,099

[Music]

1221

00:54:31,190 --> 00:54:27,950

after the music in hopes of an Easter

1222

00:54:32,450 --> 00:54:31,200

egg yes you get an Easter egg this week

1223

00:54:34,549 --> 00:54:32,460

um

1224

00:54:37,790 --> 00:54:34,559

this large wooden table here and I do

1225

00:54:39,650 --> 00:54:37,800

have a d10 a 10-sided die so we'll play

1226

00:54:42,829 --> 00:54:39,660

the dice game for those of you who don't

1227

00:54:46,190 --> 00:54:42,839

know this is where you use your magical

1228

00:54:48,230 --> 00:54:46,200

predicting power or dumb luck and see if

1229

00:54:49,849 --> 00:54:48,240

you can predict what number will come up

1230

00:54:52,130 --> 00:54:49,859

on the die

1231

00:54:54,370 --> 00:54:52,140

one two three four five six seven eight

1232

00:54:58,609 --> 00:54:54,380

nine or ten will roll it three times

1233

00:55:01,849 --> 00:54:58,619

where's my skeptic Zone pen here it is

1234

00:55:05,809 --> 00:55:01,859

where's my skeptic Zone Note Paper here

1235

00:55:12,290 --> 00:55:07,790

otherwise known as a pen and a note

1236

00:55:16,190 --> 00:55:14,510

roll number one concentrate now

1237

00:55:19,849 --> 00:55:16,200

concentrate

1238

00:55:26,930 --> 00:55:23,750

five the UI Susan gubert just for you

1239

00:55:28,080 --> 00:55:26,940

roll number two concentrating predicting

1240

00:55:29,630 --> 00:55:28,090

here it comes

1241

00:55:33,049 --> 00:55:29,640

[Music]

1242

00:55:40,370 --> 00:55:36,290

five seven and the last one coming up

1243

00:55:40,380 --> 00:55:43,190

two