The Skeptic Zone
Show 256 - 15 Sep 2013

1
00:00:22,190 --> 00:00:09,090
welcome to the skeptic zone the podcast

2
00:00:30,060 --> 00:00:25,200
hello and welcome to the skeptic zone

3
00:00:34,229 --> 00:00:30,070
episode number 256 for the 15th of sep

4
00:00:36,780 --> 00:00:34,239
tember 2013 Richard Saunders and Fred

5
00:00:40,110 --> 00:00:36,790
the cat coming to you from Sydney

6
00:00:42,120 --> 00:00:40,120
Australia on this week's show I go for a

7
00:00:45,360 --> 00:00:42,130
stroll through the botanic gardens with

8
00:00:50,190 --> 00:00:45,370
dr. Pamela gay and we discuss Cosmo

9
00:00:51,810 --> 00:00:50,200
quest and look at ducks and eels very

10
00:00:53,670 --> 00:00:51,820
exciting coming up at the top of the

11
00:00:55,080 --> 00:00:53,680
show following that it's a week in

12
00:00:58,560 --> 00:00:55,090
science from our good friends at the

13
00:01:01,040 --> 00:00:58,570

Royal Institution of Australia a very

14
00:01:04,289 --> 00:01:01,050
popular segment a week in science and

15
00:01:06,929 --> 00:01:04,299
after that I catch up with a dear friend

16
00:01:10,230 --> 00:01:06,939
of mine from the skeptics guide to the

17
00:01:13,739 --> 00:01:10,240
universe Evan Bernstein Evan tells us

18
00:01:15,809 --> 00:01:13,749
about the early days of SGU and what it

19
00:01:18,450 --> 00:01:15,819
was like to work with Perry DeAngelis

20
00:01:20,969 --> 00:01:18,460
then I have a chat to Kevin Davies the

21
00:01:22,679 --> 00:01:20,979
president of the Canberra skeptics who's

22
00:01:25,440 --> 00:01:22,689
going to fill us in a bit more about the

23
00:01:27,359 --> 00:01:25,450
upcoming national Australian skeptics

24
00:01:29,910 --> 00:01:27,369
convention looking forward to that and

25
00:01:32,760 --> 00:01:29,920
to round off the show Maynard spooky

26
00:01:35,550 --> 00:01:32,770
action with the mystery investigators at

27
00:01:38,219 --> 00:01:35,560
the powerhouse museum a bed of nails

28
00:01:40,139 --> 00:01:38,229
spoon bending water dividing what more

29
00:01:42,599 --> 00:01:40,149
could you want now as my voice is

30
00:01:45,179 --> 00:01:42,609
failing me a little bit because earlier

31
00:01:46,889 --> 00:01:45,189
on this evening i was at skeptics in the

32
00:01:49,910 --> 00:01:46,899
pub where our special guest was Pamela

33
00:01:52,469 --> 00:01:49,920
gay and well talking to so many people

34
00:01:55,260 --> 00:01:52,479
does affect the vocal cords would never

35
00:01:57,389 --> 00:01:55,270
mind just before we get into the show a

36
00:02:00,300 --> 00:01:57,399
quick mention I'd like to thank the

37
00:02:03,569 --> 00:02:00,310
sceptical society of San Luis Missy run

38
00:02:06,779 --> 00:02:03,579

blue for sending me in the post are a

39
00:02:09,240 --> 00:02:06,789
beer glass with their logo on it wow

40
00:02:11,940 --> 00:02:09,250
what an unexpected a nice present that

41
00:02:14,220 --> 00:02:11,950
was so folks if you are innocent Lewis

42
00:02:16,590 --> 00:02:14,230
area why not check them out the

43
00:02:18,900 --> 00:02:16,600
skeptical Society of st. Louis look them

44
00:02:19,830 --> 00:02:18,910
up on Google what a wonderful group of

45
00:02:22,259 --> 00:02:19,840
people thanks

46
00:02:25,800 --> 00:02:22,269
optical society of San Luis I really

47
00:02:28,050 --> 00:02:25,810
appreciate that ok now I'm going to run

48
00:02:30,509 --> 00:02:28,060
downstairs and actually I'll yes I'll

49
00:02:32,750 --> 00:02:30,519
fill up that glass a lovely skeptical

50
00:02:38,130 --> 00:02:32,760
society of some Louis glass with them

51
00:02:39,660 --> 00:02:38,140
with an orange juice yeah but that's

52
00:02:58,660 --> 00:02:39,670
where I need at the moment well I do

53
00:03:03,970 --> 00:03:01,540
what an absolutely wonderful afternoon

54
00:03:05,740 --> 00:03:03,980
it is here in Sydney Australia I'm in

55
00:03:09,100 --> 00:03:05,750
the Royal Botanical Gardens near the

56
00:03:13,570 --> 00:03:09,110
Opera House the harbours over there on

57
00:03:15,460 --> 00:03:13,580
my left my writer lovely rolling green

58
00:03:19,690 --> 00:03:15,470
gardens and trees and birds in the sky

59
00:03:22,440 --> 00:03:19,700
and ducks in the ponds in lovely laughs

60
00:03:25,240 --> 00:03:22,450
you here is dr. hammer gay hello summer

61
00:03:28,809 --> 00:03:25,250
alerted how are you doing today I'll

62
00:03:30,759 --> 00:03:28,819
have me a terrible day tomorrow now only

63
00:03:33,340 --> 00:03:30,769

a wonderful time it's just it's such a

64
00:03:36,490 --> 00:03:33,350
peaceful afternoon here in the Botanic

65
00:03:39,309 --> 00:03:36,500
Garden it really is we saw a cockatoo I

66
00:03:41,380 --> 00:03:39,319
I like knew that they existed as wild

67
00:03:43,720 --> 00:03:41,390
animals but I've never seen one is a

68
00:03:45,250 --> 00:03:43,730
wild animal before I'll see if we can

69
00:03:47,500 --> 00:03:45,260
find some more for you I think I can

70
00:03:50,050 --> 00:03:47,510
hear some oh hello there's a statue of a

71
00:03:52,600 --> 00:03:50,060
half-naked woman who's looking rather

72
00:03:55,600 --> 00:03:52,610
ashamed of her half naked status as

73
00:03:57,670 --> 00:03:55,610
she's at a for candy yeah that's an

74
00:03:59,140 --> 00:03:57,680
awkward statue it is awkward and she's

75
00:04:01,210 --> 00:03:59,150
sort of trying to cover herself up and I

76
00:04:03,580 --> 00:04:01,220
don't know who she is but we'll leave

77
00:04:07,990 --> 00:04:03,590
her there to meet you look shocked how

78
00:04:09,580 --> 00:04:08,000
dare you look at me now pal are you oh

79
00:04:11,349 --> 00:04:09,590
it's that little bird is that a little

80
00:04:13,120 --> 00:04:11,359
bit i just saw no it's just a leaf in

81
00:04:14,970 --> 00:04:13,130
the ground but there are lots of little

82
00:04:18,069 --> 00:04:14,980
birds hopping around here dachshund

83
00:04:21,250 --> 00:04:18,079
let's stroll by this big duck pond over

84
00:04:22,930 --> 00:04:21,260
here you've been on an interesting sort

85
00:04:25,930 --> 00:04:22,940
of whirlwind trip of Australia haven't

86
00:04:28,480 --> 00:04:25,940
Oh Australia New Zealand boat yeah yeah

87
00:04:31,270 --> 00:04:28,490
it's it's been amazing to see the north

88
00:04:33,100 --> 00:04:31,280

at Island fly over the South Island and

89
00:04:38,350 --> 00:04:33,110
now i'm told that this is called the

90
00:04:41,110 --> 00:04:38,360
west island yeah that's right it's been

91
00:04:45,370 --> 00:04:41,120
an amazing I'll trample the Big Island

92
00:04:48,940 --> 00:04:45,380
too yes yes and getting to see so many

93
00:04:51,640 --> 00:04:48,950
different birds and plants and and other

94
00:04:54,340 --> 00:04:51,650
things that I've never seen before while

95
00:04:56,290 --> 00:04:54,350
getting to talk about the science of the

96
00:04:58,600 --> 00:04:56,300
sky that we all share that's the same

97
00:05:01,810 --> 00:04:58,610
for all of us it's just been this great

98
00:05:03,460 --> 00:05:01,820
dichotomy yeah now we've just come

99
00:05:05,200 --> 00:05:03,470
around the corner here we're in front of

100
00:05:06,800 --> 00:05:05,210
them the main pond they called here in

101
00:05:09,680 --> 00:05:06,810
the Botanic Gardens there are lots of

102
00:05:12,020 --> 00:05:09,690
ducks swimming around as a weird sort of

103
00:05:16,090 --> 00:05:12,030
burden nibbling something down there

104
00:05:19,340 --> 00:05:16,100
come is busy taking photographs and

105
00:05:21,080 --> 00:05:19,350
there's a classic very ducky looking

106
00:05:24,500 --> 00:05:21,090
duck just over there our lovely

107
00:05:26,450 --> 00:05:24,510
beautiful Mallard yeah and there's a

108
00:05:28,700 --> 00:05:26,460
very creepy looking big black bird

109
00:05:31,400 --> 00:05:28,710
sitting there hiding its head yeah yeah

110
00:05:32,900 --> 00:05:31,410
and the Ducks going after it now oh did

111
00:05:34,879 --> 00:05:32,910
you see that yeah that was I think

112
00:05:37,310 --> 00:05:34,889
that's um an eel or something there are

113
00:05:38,690 --> 00:05:37,320

ears oh good lord oh yeah yeah and they

114
00:05:40,490 --> 00:05:38,700
eat little duckling so I I now

115
00:05:44,120 --> 00:05:40,500
understand where Loch Ness was inspired

116
00:05:46,670 --> 00:05:44,130
yeah look and it just in front of us now

117
00:05:50,870 --> 00:05:46,680
see that disturbance no uh-oh creepy

118
00:05:53,390 --> 00:05:50,880
stuff baby stuff oh there it goes again

119
00:05:55,940 --> 00:05:53,400
and again it looks like it's chasing the

120
00:05:59,180 --> 00:05:55,950
duck i yes you might see a murder going

121
00:06:02,090 --> 00:05:59,190
on I'm used to pond stocked with

122
00:06:04,820 --> 00:06:02,100
goldfish rather than eels yeah always

123
00:06:06,320 --> 00:06:04,830
look this one look oh my god we're

124
00:06:08,600 --> 00:06:06,330
walking down to the water now and

125
00:06:10,580 --> 00:06:08,610
there's a giant eel right in front of us

126
00:06:13,219 --> 00:06:10,590
ladies and gentlemen I'm not sure it's

127
00:06:16,250 --> 00:06:13,229
so much an eel is a very elongated fish

128
00:06:18,800 --> 00:06:16,260
that still has fins but yeah does this

129
00:06:22,159 --> 00:06:18,810
will be going up on Google+ later isn't

130
00:06:27,440 --> 00:06:22,169
that besides it's a good half meter long

131
00:06:31,010 --> 00:06:27,450
and the staying now yeah Wow right in

132
00:06:32,719 --> 00:06:31,020
front of us numbers and those

133
00:06:34,880 --> 00:06:32,729
disturbances you can see in the water I

134
00:06:36,440 --> 00:06:34,890
think their heels that are popping

135
00:06:38,719 --> 00:06:36,450
around there it goes there guys look

136
00:06:40,430 --> 00:06:38,729
look through the water isn't that creepy

137
00:06:45,650 --> 00:06:40,440
you wouldn't want to go for a paddle no

138
00:06:47,950 --> 00:06:45,660

no thank you Wow now we had the pleasure

139
00:06:50,300 --> 00:06:47,960
of your company last night Pamela at a

140
00:06:53,450 --> 00:06:50,310
special dinner down at darling harbour

141
00:06:55,310 --> 00:06:53,460
very select group who came along to have

142
00:06:57,469 --> 00:06:55,320
a private dinner with you and I must say

143
00:06:59,000 --> 00:06:57,479
you were wonderful you spoke for a long

144
00:07:01,490 --> 00:06:59,010
time and you answered questions for

145
00:07:05,150 --> 00:07:01,500
hours it was so good of you it was

146
00:07:07,879 --> 00:07:05,160
really an amazing evening to get to

147
00:07:10,040 --> 00:07:07,889
share dinner with i think it was around

148
00:07:12,580 --> 00:07:10,050
20 different people that are all

149
00:07:16,990 --> 00:07:12,590
enthusiastic about science and

150
00:07:19,640 --> 00:07:17,000
scientific skepticism and we got to have

151
00:07:20,239 --> 00:07:19,650
honest discussions about the things that

152
00:07:22,669 --> 00:07:20,249
are

153
00:07:25,339 --> 00:07:22,679
right at the border of understanding the

154
00:07:27,019 --> 00:07:25,349
the how do we seek if there is life on

155
00:07:30,999 --> 00:07:27,029
other worlds and understand that

156
00:07:34,789 --> 00:07:31,009
question scientifically how how do do we

157
00:07:37,759 --> 00:07:34,799
identify it why haven't we identified it

158
00:07:39,829 --> 00:07:37,769
and it was just neat to get to wrap our

159
00:07:41,629 --> 00:07:39,839
heads around so many different ideas and

160
00:07:43,789 --> 00:07:41,639
then it all ended with fireworks quite

161
00:07:45,109 --> 00:07:43,799
literally it did it was that was

162
00:07:46,969 --> 00:07:45,119
exciting wasn't it they put in those

163
00:07:50,539 --> 00:07:46,979

wonderful fireworks just for us just for

164
00:07:52,279 --> 00:07:50,549
you just fear not that now the the crowd

165
00:07:54,409 --> 00:07:52,289
last night that the small crowd i must

166
00:07:57,469 --> 00:07:54,419
say had very interesting questions a lot

167
00:07:59,329 --> 00:07:57,479
of move quite quite interested to know

168
00:08:01,219 --> 00:07:59,339
your thoughts about the size and scale

169
00:08:03,889 --> 00:08:01,229
and scope of the universe which was

170
00:08:07,759 --> 00:08:03,899
endlessly fascinating but you also were

171
00:08:10,969 --> 00:08:07,769
there too of course oh hello stopping to

172
00:08:14,289 --> 00:08:10,979
take another I'm she's a tourist after

173
00:08:16,850 --> 00:08:14,299
all oh yeah and I'm also a photo geek

174
00:08:18,859 --> 00:08:16,860
just passing some wow what beautiful

175
00:08:22,039 --> 00:08:18,869
flowers were passing here on out right

176
00:08:24,350 --> 00:08:22,049
oh no left yeah they look like crabapple

177
00:08:27,519 --> 00:08:24,360
flowers but they're not the bees are

178
00:08:30,229 --> 00:08:27,529
buzzing huh you were here of course to

179
00:08:32,149 --> 00:08:30,239
promote the wonderful cosmic quest what

180
00:08:35,089 --> 00:08:32,159
what can you tell us about that well

181
00:08:37,540 --> 00:08:35,099
well cosmic quest dot 0 0 RG is a

182
00:08:40,069 --> 00:08:37,550
virtual research facility that's

183
00:08:42,949 --> 00:08:40,079
designed to allow professional

184
00:08:45,139 --> 00:08:42,959
scientists and everyday people to work

185
00:08:48,949 --> 00:08:45,149
together on trying to better understand

186
00:08:52,970 --> 00:08:48,959
our universe to explore images of the

187
00:08:55,960 --> 00:08:52,980
moon mercury Vesta and work to map out

188
00:08:59,530 --> 00:08:55,970

these planets and moons and asteroid

189
00:09:01,910 --> 00:08:59,540
while at the same time providing

190
00:09:03,889 --> 00:09:01,920
experiences for the public that normally

191
00:09:06,860 --> 00:09:03,899
are reserved for people working at

192
00:09:09,920 --> 00:09:06,870
research facilities we have seminars we

193
00:09:13,429 --> 00:09:09,930
have star parties we offer classes for

194
00:09:15,439 --> 00:09:13,439
the public and we're trying to build a

195
00:09:19,340 --> 00:09:15,449
community of people that are learning

196
00:09:21,889 --> 00:09:19,350
and doing science together Wow well I've

197
00:09:24,559 --> 00:09:21,899
been to a stop party of course at

198
00:09:28,419 --> 00:09:24,569
dragoncon yes they're they're really

199
00:09:31,009 --> 00:09:28,429
amazing we we have this great group of

200
00:09:33,420 --> 00:09:31,019
amateur astronomers that have set up all

201
00:09:36,990 --> 00:09:33,430
manner of different types of cameras

202
00:09:39,990 --> 00:09:37,000
different types of telescopes and every

203
00:09:44,490 --> 00:09:40,000
Sunday night us monday morning for the

204
00:09:47,400 --> 00:09:44,500
western Pacific wit rim we get together

205
00:09:49,980 --> 00:09:47,410
and we look at whatever planets are up

206
00:09:53,880 --> 00:09:49,990
we look at whatever nebulae are clear

207
00:09:58,440 --> 00:09:53,890
and just basically Google the sky ruled

208
00:10:00,650 --> 00:09:58,450
Scott in Google this guy's guy who could

209
00:10:03,510 --> 00:10:00,660
blame you another cause for a photograph

210
00:10:06,120 --> 00:10:03,520
we've come to a part of the the the park

211
00:10:07,889 --> 00:10:06,130
here still by the fountain that the pond

212
00:10:10,470 --> 00:10:07,899
and look at that it's another one it's

213
00:10:14,810 --> 00:10:10,480

another giant eel swimming bias let's

214
00:10:17,550 --> 00:10:14,820
have a look see if it comes up over here

215
00:10:22,199 --> 00:10:17,560
disappearing into the murky water it'll

216
00:10:24,329 --> 00:10:22,209
probably come up soon is and everybody

217
00:10:26,760 --> 00:10:24,339
of course last night was very interested

218
00:10:30,900 --> 00:10:26,770
to hear about your work and Cosmo quest

219
00:10:34,199 --> 00:10:30,910
and you were giving people very good ear

220
00:10:38,010 --> 00:10:34,209
oh he's one look he's one like this dang

221
00:10:43,949 --> 00:10:38,020
no I beggar that's even bigger than the

222
00:10:48,030 --> 00:10:43,959
last one slowly moving eel creepy ill

223
00:10:50,790 --> 00:10:48,040
Wow Oh disappearing big long flat and

224
00:10:54,210 --> 00:10:50,800
another following it getting chased this

225
00:11:00,480 --> 00:10:54,220
is ile de this is really ill they these

226
00:11:04,050 --> 00:11:00,490
remind me of like Chinese myths I look

227
00:11:07,530 --> 00:11:04,060
like something from the m from the

228
00:11:09,800 --> 00:11:07,540
Jurassic or something yeah they're

229
00:11:12,740 --> 00:11:09,810
literally about half a meter long

230
00:11:17,490 --> 00:11:12,750
probably not London centimeters high

231
00:11:22,290 --> 00:11:17,500
know if they go yeah things you see in

232
00:11:24,960 --> 00:11:22,300
Sydney and yes so the thing is Pamela

233
00:11:27,300 --> 00:11:24,970
this is such a worthwhile endeavor you

234
00:11:29,850 --> 00:11:27,310
do and it brings such joy and interest

235
00:11:32,460 --> 00:11:29,860
to so many people how can the skeptics

236
00:11:35,790 --> 00:11:32,470
on listeners be of benefit to you well

237
00:11:38,460 --> 00:11:35,800
two different ways we ask people to come

238
00:11:42,360 --> 00:11:38,470

to our site and spend time doing science

239
00:11:44,579 --> 00:11:42,370
help us map out other worlds and find

240
00:11:45,430 --> 00:11:44,589
the scientifically interesting places to

241
00:11:48,340 --> 00:11:45,440
land few

242
00:11:50,290 --> 00:11:48,350
spacecraft into focus high-resolution

243
00:11:54,070 --> 00:11:50,300
images using the spacecraft we have

244
00:11:55,990 --> 00:11:54,080
today beyond that get the word out

245
00:11:59,230 --> 00:11:56,000
there's so many people out there

246
00:12:01,540 --> 00:11:59,240
interested in science that don't know

247
00:12:04,360 --> 00:12:01,550
what opportunities exist for them to

248
00:12:06,580 --> 00:12:04,370
participate in science and and

249
00:12:08,320 --> 00:12:06,590
unfortunately I have to say with the

250
00:12:12,520 --> 00:12:08,330
government being chased by it remote

251
00:12:14,140 --> 00:12:12,530
control car yes i'm adding merriment for

252
00:12:16,870 --> 00:12:14,150
what was about to be a depressing phrase

253
00:12:19,480 --> 00:12:16,880
there we go um so one of the things that

254
00:12:22,510 --> 00:12:19,490
we're currently facing is budgetary

255
00:12:25,930 --> 00:12:22,520
shortfalls as so many governments around

256
00:12:27,820 --> 00:12:25,940
the world have to cut back the funding

257
00:12:31,630 --> 00:12:27,830
they have for science as they focus on

258
00:12:35,860 --> 00:12:31,640
social issues and well on warfare and

259
00:12:38,380 --> 00:12:35,870
yes yes so we are always looking for

260
00:12:41,260 --> 00:12:38,390
corporate sponsors to help help us

261
00:12:43,240 --> 00:12:41,270
spread science and raise up a more

262
00:12:45,160 --> 00:12:43,250
technologically literate future I

263
00:12:48,340 --> 00:12:45,170

couldn't think of a better way for a

264
00:12:50,110 --> 00:12:48,350
large corporation or an individual who's

265
00:12:53,800 --> 00:12:50,120
thinking that they'd love to support

266
00:12:55,540 --> 00:12:53,810
science and surely astronomy is one of

267
00:12:58,210 --> 00:12:55,550
the most elegant and beautiful sciences

268
00:13:00,010 --> 00:12:58,220
there is and it really is it's one of

269
00:13:01,690 --> 00:13:00,020
the most or inspiring and there are many

270
00:13:03,670 --> 00:13:01,700
sciences out there which you could say

271
00:13:05,440 --> 00:13:03,680
are inspiring but everybody can share in

272
00:13:09,100 --> 00:13:05,450
this wonderful one so I would encourage

273
00:13:13,810 --> 00:13:09,110
you to visit cosmic quest org yes cuz

274
00:13:15,970 --> 00:13:13,820
dad o RG OIG you won't regret it and you

275
00:13:18,280 --> 00:13:15,980
may even get to if you're very lucky

276
00:13:20,650 --> 00:13:18,290
stir all around the Botanic Gardens when

277
00:13:24,790 --> 00:13:20,660
they were family game and be chased by

278
00:13:27,310 --> 00:13:24,800
eels and remote control cars and power

279
00:13:29,110 --> 00:13:27,320
if we're very lucky and we go around if

280
00:13:30,940 --> 00:13:29,120
I'm getting my bearings right we can

281
00:13:33,040 --> 00:13:30,950
have a bit of a wonder we might even see

282
00:13:48,870 --> 00:13:33,050
some flying foxes that that would be

283
00:13:53,260 --> 00:13:51,190
astronomy cast it takes a fact space

284
00:13:55,000 --> 00:13:53,270
journey through the cosmos as it offers

285
00:13:57,670 --> 00:13:55,010
listeners weekly discussions on

286
00:14:00,580 --> 00:13:57,680
astronomical topics ranging from planets

287
00:14:02,890 --> 00:14:00,590
to cosmology hosted by Fraser Cain of

288
00:14:03,880 --> 00:14:02,900

Universe Today and myself dr. Pamela

289
00:14:06,550 --> 00:14:03,890
gave southern illinois university

290
00:14:08,440 --> 00:14:06,560
edwardsville this show brings the

291
00:14:10,870 --> 00:14:08,450
questions of an avid astronomy lover

292
00:14:12,970 --> 00:14:10,880
directly to an astronomer together

293
00:14:14,500 --> 00:14:12,980
Fraser and I explore what is known and

294
00:14:17,260 --> 00:14:14,510
being discovered about the universe

295
00:14:19,360 --> 00:14:17,270
around us join us each week as we take a

296
00:14:28,750 --> 00:14:19,370
fact space journey through the cosmos at

297
00:14:30,970 --> 00:14:28,760
astronomy cast calm this week in science

298
00:14:34,870 --> 00:14:30,980
we saw a new unmanned mission to the

299
00:14:44,950 --> 00:14:34,880
moon tarantula venom pesticide and what

300
00:14:49,130 --> 00:14:47,120
elephants can distinguish between the

301
00:14:50,720 --> 00:14:49,140
growls of predators and adapt their

302
00:14:53,600 --> 00:14:50,730
behavior depending on the level of

303
00:14:55,580 --> 00:14:53,610
danger wild Asian elephants were played

304
00:14:57,260 --> 00:14:55,590
the growls of tigers which are a

305
00:15:00,170 --> 00:14:57,270
significant threat to elephant calves

306
00:15:02,720 --> 00:15:00,180
and the growls of leopards which pose no

307
00:15:04,940 --> 00:15:02,730
real threat when Tiger growls were

308
00:15:07,760 --> 00:15:04,950
played researchers observed the elephant

309
00:15:09,800 --> 00:15:07,770
silently retreating to safety but when

310
00:15:12,230 --> 00:15:09,810
played leopard growls the elephant's

311
00:15:13,520 --> 00:15:12,240
made aggressive noises and investigated

312
00:15:16,100 --> 00:15:13,530
the threat rather than immediately

313
00:15:17,960 --> 00:15:16,110

retreating this shows that elephants

314
00:15:19,850 --> 00:15:17,970
make a judgment on how dangerous the

315
00:15:24,110 --> 00:15:19,860
threat is and adapt their behavior

316
00:15:26,900 --> 00:15:24,120
accordingly nASA has launched a new

317
00:15:31,190 --> 00:15:26,910
unmanned probe to the moon delightfully

318
00:15:33,680 --> 00:15:31,200
named laddie laddie that's la d double e

319
00:15:36,260 --> 00:15:33,690
stands for the lunar atmosphere and dust

320
00:15:38,120 --> 00:15:36,270
environment Explorer and will orbit the

321
00:15:40,390 --> 00:15:38,130
moon collecting information about its

322
00:15:42,890 --> 00:15:40,400
atmosphere during the Apollo missions

323
00:15:44,870 --> 00:15:42,900
astronauts reported a strange glow on

324
00:15:46,880 --> 00:15:44,880
the moon's horizon thought to be

325
00:15:49,490 --> 00:15:46,890
electrically charged dust rising from

326
00:15:51,530 --> 00:15:49,500
the surface laddie will investigate the

327
00:15:55,790 --> 00:15:51,540
glowing dust as well as gases in the

328
00:15:57,650 --> 00:15:55,800
moon's atmosphere electronic cigarettes

329
00:16:00,110 --> 00:15:57,660
are better at helping smokers cut back

330
00:16:01,850 --> 00:16:00,120
to the nicotine patches a study of 70

331
00:16:04,010 --> 00:16:01,860
fathers showed the larger the volume of

332
00:16:06,140 --> 00:16:04,020
their testes the less involved they were

333
00:16:08,120 --> 00:16:06,150
in parenting activities like changing

334
00:16:10,130 --> 00:16:08,130
nappies Australian researchers have

335
00:16:12,170 --> 00:16:10,140
found tarantula venom may be useful as

336
00:16:15,530 --> 00:16:12,180
an insecticide against bull worms a

337
00:16:18,050 --> 00:16:15,540
common crop pests and the fiery Szechuan

338
00:16:19,730 --> 00:16:18,060

pepper used in Asian food produces a

339
00:16:22,340 --> 00:16:19,740
brain signal equivalent to being

340
00:16:24,370 --> 00:16:22,350
physically tapped on the skin 50 times a

341
00:16:27,050 --> 00:16:24,380
second

342
00:16:30,260 --> 00:16:27,060
next week is one of our flagship events

343
00:16:33,080 --> 00:16:30,270
at our iOS the 2013 science inspiration

344
00:16:35,300 --> 00:16:33,090
on Wednesday September 18 we welcome

345
00:16:37,760 --> 00:16:35,310
international science legend professor

346
00:16:39,920 --> 00:16:37,770
ian fraser who invented the HPV vaccine

347
00:16:41,870 --> 00:16:39,930
for cervical cancer we'll get to know

348
00:16:43,490 --> 00:16:41,880
the man behind the name with a school

349
00:16:45,620 --> 00:16:43,500
session during the day an evening

350
00:16:47,900 --> 00:16:45,630
session for everyone both will be live

351
00:16:50,120 --> 00:16:47,910
streamed online visit the Arias website

352
00:16:51,650 --> 00:16:50,130
for details that's it for this week in

353
00:16:54,220 --> 00:16:51,660
science we'll see you right here next

354
00:16:54,230 --> 00:17:01,810
you

355
00:17:06,550 --> 00:17:04,540
hi I'm Finn and I'm Rebecca and where

356
00:17:08,410 --> 00:17:06,560
the skipper Collins skipper Collins is

357
00:17:10,090 --> 00:17:08,420
an Irish podcast by the Dublin skeptics

358
00:17:11,650 --> 00:17:10,100
society it takes a conversational

359
00:17:12,939 --> 00:17:11,660
Reverend look at science news and

360
00:17:16,420 --> 00:17:12,949
skeptical topics from an Irish

361
00:17:35,890 --> 00:17:16,430
perspective you can find us at WWDC

362
00:17:40,880 --> 00:17:38,060
joining me now all the way from

363
00:17:43,580 --> 00:17:40,890

beautiful Connecticut in the United

364
00:17:45,830 --> 00:17:43,590
States it's Evan Bernstein Richard

365
00:17:48,290 --> 00:17:45,840
Saunders how are you not doing too bad

366
00:17:50,210 --> 00:17:48,300
Evan touch a hay fever it's that time of

367
00:17:51,560 --> 00:17:50,220
the year here in Sydney the days are

368
00:17:54,620 --> 00:17:51,570
getting warmer in fact we've had some

369
00:17:57,920 --> 00:17:54,630
big bush fires lately and yeah I guess

370
00:17:59,600 --> 00:17:57,930
the pollen count is up and I can

371
00:18:01,340 --> 00:17:59,610
certainly feel it well when we have

372
00:18:02,990 --> 00:18:01,350
spring here in Connecticut the exact

373
00:18:05,240 --> 00:18:03,000
same conditions happen although not the

374
00:18:07,250 --> 00:18:05,250
wildfires where we don't get many of

375
00:18:10,600 --> 00:18:07,260
those it's certainly not that time of

376
00:18:13,280 --> 00:18:10,610
year but the pollen the hay fever the

377
00:18:15,800 --> 00:18:13,290
you know particles in the air it's just

378
00:18:17,390 --> 00:18:15,810
go makes your senses go crazy and I know

379
00:18:18,800 --> 00:18:17,400
what you're feeling right now but in

380
00:18:21,620 --> 00:18:18,810
your part of the world right now it's

381
00:18:24,740 --> 00:18:21,630
not certainly not going into spring it's

382
00:18:27,170 --> 00:18:24,750
going into autumn we are in fact and

383
00:18:30,680 --> 00:18:27,180
there's frankly fewer places on earth

384
00:18:32,330 --> 00:18:30,690
more wonderful to be than in New England

385
00:18:34,430 --> 00:18:32,340
during during the autumn because the

386
00:18:36,500 --> 00:18:34,440
foliage the turning of the color of the

387
00:18:38,660 --> 00:18:36,510
leaves on the trees is just spectacular

388
00:18:40,940 --> 00:18:38,670

it people do come from all over the

389
00:18:43,730 --> 00:18:40,950
world to see it so I'm very fortunate to

390
00:18:45,710 --> 00:18:43,740
live here and be able to enjoy that each

391
00:18:49,130 --> 00:18:45,720
year now Evan you've been involved in

392
00:18:51,590 --> 00:18:49,140
skepticism for quite a long time how

393
00:18:53,540 --> 00:18:51,600
long have you been doing that you were

394
00:18:56,240 --> 00:18:53,550
one of the people who founded the New

395
00:18:58,820 --> 00:18:56,250
England's skeptical society I think even

396
00:19:00,530 --> 00:18:58,830
from the days before it was known as the

397
00:19:02,810 --> 00:19:00,540
New England skeptics society we were

398
00:19:06,500 --> 00:19:02,820
simply the Connecticut skeptical society

399
00:19:08,330 --> 00:19:06,510
when we started out in 1996 so yeah it's

400
00:19:11,470 --> 00:19:08,340
been a very long journey and of course

401
00:19:15,950 --> 00:19:11,480
eventually that led to the formation of

402
00:19:17,750 --> 00:19:15,960
SGU the skeptics guide to the universe I

403
00:19:20,030 --> 00:19:17,760
was wondering and maybe some of our

404
00:19:22,610 --> 00:19:20,040
listeners are wondering too how did that

405
00:19:25,370 --> 00:19:22,620
how'd that all get started how did the

406
00:19:27,230 --> 00:19:25,380
skeptics guide to the universe come into

407
00:19:30,020 --> 00:19:27,240
existence the skeptics guide to the

408
00:19:32,000 --> 00:19:30,030
universe came about as a result of our

409
00:19:34,340 --> 00:19:32,010
efforts we had put in for the bed

410
00:19:37,610 --> 00:19:34,350
part of 10 years with the New England

411
00:19:41,540 --> 00:19:37,620
skeptical society in which it was myself

412
00:19:44,450 --> 00:19:41,550
and Steve and Perry and Bob at the time

413
00:19:48,530 --> 00:19:44,460

who we made up the Executive Council of

414
00:19:50,990 --> 00:19:48,540
the society and this is all in 2000 late

415
00:19:53,810 --> 00:19:51,000
2004 early two thousand five right when

416
00:19:57,260 --> 00:19:53,820
podcasting became came onto the scene

417
00:20:01,240 --> 00:19:57,270
and iTunes introduced their store and

418
00:20:03,980 --> 00:20:01,250
and basically invented podcasting for

419
00:20:06,620 --> 00:20:03,990
for lack of a better person or

420
00:20:09,670 --> 00:20:06,630
organization to credit for that we

421
00:20:14,270 --> 00:20:09,680
always give it to them so you know and

422
00:20:17,120 --> 00:20:14,280
we had decided to try to move our

423
00:20:18,530 --> 00:20:17,130
efforts which were offline based in

424
00:20:21,320 --> 00:20:18,540
which we would have you know just

425
00:20:23,120 --> 00:20:21,330
monthly meetings we'd have dinners and

426
00:20:24,680 --> 00:20:23,130
functions and have special speakers come

427
00:20:26,870 --> 00:20:24,690
in but we'd also publish a newsletter

428
00:20:29,360 --> 00:20:26,880
yes back in the days of you know

429
00:20:31,160 --> 00:20:29,370
printing actual paper and mailing

430
00:20:33,230 --> 00:20:31,170
newsletters out to people we did that

431
00:20:35,390 --> 00:20:33,240
for quite a long time but it was time

432
00:20:37,250 --> 00:20:35,400
you know the internet had matured by

433
00:20:39,140 --> 00:20:37,260
that time and it was really time to

434
00:20:42,650 --> 00:20:39,150
start developing an online presence and

435
00:20:44,600 --> 00:20:42,660
we got the idea for doing a show when we

436
00:20:48,730 --> 00:20:44,610
were talking with our one of our common

437
00:20:51,050 --> 00:20:48,740
friends around that time who felt

438
00:20:54,920 --> 00:20:51,060

putting something together in a podcast

439
00:20:58,040 --> 00:20:54,930
would be a more oh let's say or an

440
00:21:00,350 --> 00:20:58,050
easier way to go about our discussions

441
00:21:01,940 --> 00:21:00,360
on politics instead of emailing each

442
00:21:05,990 --> 00:21:01,950
other back and forth we were all very

443
00:21:07,820 --> 00:21:06,000
sort of actively politically charged at

444
00:21:09,830 --> 00:21:07,830
the time you know Iraq war was raging

445
00:21:11,270 --> 00:21:09,840
you know and a lot of things were

446
00:21:13,400 --> 00:21:11,280
happening in the George Bush

447
00:21:15,500 --> 00:21:13,410
administration and the conversations

448
00:21:18,080 --> 00:21:15,510
were hot and he did and heavy and they

449
00:21:20,120 --> 00:21:18,090
were 50 e-mails back and forth each day

450
00:21:22,550 --> 00:21:20,130
so this is going on for several months

451
00:21:24,470 --> 00:21:22,560
and we're so friend suggested well you

452
00:21:25,670 --> 00:21:24,480
know this is taking up a lot of time why

453
00:21:26,840 --> 00:21:25,680
don't we just get together and record

454
00:21:29,240 --> 00:21:26,850
our thoughts and have like a dinner

455
00:21:31,280 --> 00:21:29,250
table discussion and turn it into a show

456
00:21:33,380 --> 00:21:31,290
and Steve thought that was a brilliant

457
00:21:34,490 --> 00:21:33,390
idea but he said instead of politics

458
00:21:37,180 --> 00:21:34,500
what we're going to do is we're going to

459
00:21:40,280 --> 00:21:37,190
use that idea and put our skeptical

460
00:21:42,500 --> 00:21:40,290
efforts and thoughts into a show and

461
00:21:44,210 --> 00:21:42,510
that was the seed that was the actual

462
00:21:45,190 --> 00:21:44,220
genesis of the skeptics guide to the

463
00:21:47,230 --> 00:21:45,200

universe back in

464
00:21:49,690 --> 00:21:47,240
and our first show launched in May of

465
00:21:52,240 --> 00:21:49,700
2005 and how does the show work I mean I

466
00:21:53,799 --> 00:21:52,250
imagine you can get together when you

467
00:21:57,340 --> 00:21:53,809
can get together all in the same room

468
00:22:00,370 --> 00:21:57,350
but that it's not often how do you all

469
00:22:02,830 --> 00:22:00,380
get the show sounding so good how do you

470
00:22:04,539 --> 00:22:02,840
record it it works not dissimilar to the

471
00:22:06,580 --> 00:22:04,549
way we actually are doing it now yes we

472
00:22:08,409 --> 00:22:06,590
use skype as a conference tool so we can

473
00:22:13,029 --> 00:22:08,419
all hear each other but we each recorded

474
00:22:15,340 --> 00:22:13,039
ourselves locally using audacity and we

475
00:22:16,870 --> 00:22:15,350
would send our files to Steve at the end

476
00:22:19,180 --> 00:22:16,880
of it all so he could edit us all

477
00:22:21,190 --> 00:22:19,190
together and turn it into one single

478
00:22:23,500 --> 00:22:21,200
track and it's really not that different

479
00:22:25,210 --> 00:22:23,510
from the way we make the show now we

480
00:22:27,879 --> 00:22:25,220
sort of stumbled upon it ourselves

481
00:22:29,289 --> 00:22:27,889
figured it out ourselves and it was

482
00:22:31,990 --> 00:22:29,299
nothing special to it a lot of other

483
00:22:34,000 --> 00:22:32,000
people had were able to sort of do the

484
00:22:37,149 --> 00:22:34,010
same thing or stumble upon this sort of

485
00:22:39,810 --> 00:22:37,159
solution to podcasting as a group from

486
00:22:43,779 --> 00:22:39,820
various places all over the planet and

487
00:22:45,159 --> 00:22:43,789
that was it it kind of it was easy

488
00:22:47,259 --> 00:22:45,169

enough for us and we had had a lot of

489
00:22:50,110 --> 00:22:47,269
experience using and sampling some

490
00:22:52,000 --> 00:22:50,120
different conferencing programs because

491
00:22:53,110 --> 00:22:52,010
we would also play a lot of online games

492
00:22:55,149 --> 00:22:53,120
together and when you're playing

493
00:22:57,340 --> 00:22:55,159
multiplayer online games together it was

494
00:22:58,930 --> 00:22:57,350
it would be convenient to be able to

495
00:23:00,129 --> 00:22:58,940
hear each other and talk and say okay

496
00:23:02,259 --> 00:23:00,139
our group is going to now head towards

497
00:23:04,629 --> 00:23:02,269
this part of the city or you know that

498
00:23:06,549 --> 00:23:04,639
sort of chatter going on and at the time

499
00:23:10,600 --> 00:23:06,559
the games themselves didn't have very

500
00:23:12,039 --> 00:23:10,610
good or at all voice programs built into

501
00:23:13,840 --> 00:23:12,049
the game system so we had to search

502
00:23:16,000 --> 00:23:13,850
around and try a couple of different

503
00:23:17,889 --> 00:23:16,010
ones that worked and we found out that

504
00:23:22,870 --> 00:23:17,899
Skype had not only the best quality but

505
00:23:25,060 --> 00:23:22,880
also the best bandwidth or it didn't

506
00:23:27,090 --> 00:23:25,070
crash as much as the other ones so we

507
00:23:29,769 --> 00:23:27,100
had already kind of flesh that out and

508
00:23:30,940 --> 00:23:29,779
the recording part was easy enough so we

509
00:23:32,590 --> 00:23:30,950
were pretty much there from the get-go

510
00:23:34,720 --> 00:23:32,600
and we understood what exactly what we

511
00:23:37,029 --> 00:23:34,730
needed to do yes well that's more or

512
00:23:39,970 --> 00:23:37,039
less what's happening at the moment in

513
00:23:42,039 --> 00:23:39,980

fact you're recording your bid at your

514
00:23:44,230 --> 00:23:42,049
end in Connecticut I'm recording my bit

515
00:23:45,370 --> 00:23:44,240
here in Sydney Australia and when we're

516
00:23:47,230 --> 00:23:45,380
finished you're going to send me your

517
00:23:49,899 --> 00:23:47,240
file and I'm going to edit it all

518
00:23:51,820 --> 00:23:49,909
together and I'll sound so so seamless

519
00:23:55,149 --> 00:23:51,830
but don't tell anybody that's a

520
00:23:56,419 --> 00:23:55,159
production secret well except make sure

521
00:24:00,169 --> 00:23:56,429
you edit that part out rich

522
00:24:01,430 --> 00:24:00,179
don't forget now we all enjoy listening

523
00:24:04,759 --> 00:24:01,440
to skeptics guide to the universe

524
00:24:06,980 --> 00:24:04,769
yourself Steve novella Jane novella Bob

525
00:24:08,450 --> 00:24:06,990
novella and rebecca watson but of course

526
00:24:09,889 --> 00:24:08,460
there's one person who was there right

527
00:24:13,039 --> 00:24:09,899
from the beginning who is missing these

528
00:24:15,710 --> 00:24:13,049
days sadly perry DeAngelis who I never

529
00:24:18,440 --> 00:24:15,720
got to meet what sort of character was

530
00:24:20,899 --> 00:24:18,450
Perry he was my best friend certainly I

531
00:24:24,049 --> 00:24:20,909
mean you know I consider steve j and bob

532
00:24:26,119 --> 00:24:24,059
also to be my best friends and I would

533
00:24:28,609 --> 00:24:26,129
consider them the same as Perry you know

534
00:24:32,810 --> 00:24:28,619
in so much that I actually knew Perry

535
00:24:35,629 --> 00:24:32,820
longer than I knew the novellas so he

536
00:24:40,220 --> 00:24:35,639
was a really tremendous friend to grow

537
00:24:41,659 --> 00:24:40,230
up with you would walk into a room meet

538
00:24:44,299 --> 00:24:41,669

him for the first time and within about

539
00:24:46,299 --> 00:24:44,309
60 seconds it would take and you'd fall

540
00:24:50,749 --> 00:24:46,309
in love with the guy he was had such a

541
00:24:53,090 --> 00:24:50,759
charming inviting personality and this

542
00:24:54,619 --> 00:24:53,100
is also a person who was at times rough

543
00:24:57,440 --> 00:24:54,629
around the edges and pretty opinionated

544
00:24:59,450 --> 00:24:57,450
on many matters skepticism you know

545
00:25:01,549 --> 00:24:59,460
politics and sports and a lot you know

546
00:25:04,100 --> 00:25:01,559
and lots of different things he was also

547
00:25:05,869 --> 00:25:04,110
a news junkie so he kind of kept up to

548
00:25:08,899 --> 00:25:05,879
date with a lot of current events in

549
00:25:10,669 --> 00:25:08,909
these sorts of things and but regardless

550
00:25:13,460 --> 00:25:10,679
of whether you agreed with Perry or

551
00:25:15,230 --> 00:25:13,470
didn't or had somewhere in the middle

552
00:25:17,359 --> 00:25:15,240
opinions about some of the things he's

553
00:25:19,220 --> 00:25:17,369
either said on the show or what you knew

554
00:25:22,119 --> 00:25:19,230
about him as a person outside the show I

555
00:25:25,669 --> 00:25:22,129
mean you couldn't help but absolutely

556
00:25:27,560 --> 00:25:25,679
want to have more time with him he's the

557
00:25:29,450 --> 00:25:27,570
kind of person you just never wanted the

558
00:25:33,710 --> 00:25:29,460
time to end he oh he's a very fun-loving

559
00:25:36,139 --> 00:25:33,720
person an avid gamer as we all were but

560
00:25:39,259 --> 00:25:36,149
Perry I think was the king of gamers of

561
00:25:41,799 --> 00:25:39,269
all of us and that's effectively how we

562
00:25:43,430 --> 00:25:41,809
all met as friends was through a

563
00:25:45,680 --> 00:25:43,440

role-playing game a live-action

564
00:25:47,779 --> 00:25:45,690
role-playing game and that's when Perry

565
00:25:49,999 --> 00:25:47,789
and I essentially met the novellas back

566
00:25:51,980 --> 00:25:50,009
in 1992 and that's when our group

567
00:25:53,930 --> 00:25:51,990
friendship started and you know just

568
00:25:57,019 --> 00:25:53,940
can't say enough about Perry oh and one

569
00:26:00,320 --> 00:25:57,029
more thing he what you heard of him on

570
00:26:03,470 --> 00:26:00,330
the show brief as it was it was exactly

571
00:26:05,029 --> 00:26:03,480
how he is he didn't put on any airs he

572
00:26:07,879 --> 00:26:05,039
didn't pretend to be somebody else he

573
00:26:09,680 --> 00:26:07,889
didn't have a personality that to put on

574
00:26:10,340 --> 00:26:09,690
to the show you you you pretty much got

575
00:26:16,370 --> 00:26:10,350
exactly

576
00:26:18,529 --> 00:26:16,380
raw thought thoughts were so and I think

577
00:26:20,570 --> 00:26:18,539
a lot of people understand that and have

578
00:26:23,090 --> 00:26:20,580
expressed so much to us and we're very

579
00:26:25,909 --> 00:26:23,100
happy that you know we had a hundred and

580
00:26:28,669 --> 00:26:25,919
better part of 110 episodes in which we

581
00:26:30,529 --> 00:26:28,679
were able to capture him and you know

582
00:26:32,450 --> 00:26:30,539
let him live in eternity in the world of

583
00:26:36,440 --> 00:26:32,460
podcasting in fact the first time I met

584
00:26:41,960 --> 00:26:36,450
Rebecca Watson was only weeks or a month

585
00:26:44,029 --> 00:26:41,970
or so after Perry died and that can only

586
00:26:47,450 --> 00:26:44,039
be six years ago it's amazing to think

587
00:26:49,990 --> 00:26:47,460
that Perry's been gone for six years it

588
00:26:52,820 --> 00:26:50,000

is it's a sobering it's a reminder of

589
00:26:57,140 --> 00:26:52,830
well as Carl Sagan used to say just

590
00:26:59,390 --> 00:26:57,150
really how precious life is and how you

591
00:27:02,060 --> 00:26:59,400
know what there's such a thin difference

592
00:27:06,320 --> 00:27:02,070
between existence and non-existence and

593
00:27:07,669 --> 00:27:06,330
when you have a friend and a person that

594
00:27:09,620 --> 00:27:07,679
you've done so many activities with

595
00:27:11,120 --> 00:27:09,630
throughout your life like Perry you know

596
00:27:12,890 --> 00:27:11,130
I mean we've you have a best friend

597
00:27:14,630 --> 00:27:12,900
Richard somewhere and a lot of people in

598
00:27:16,909 --> 00:27:14,640
this audience they all have best friends

599
00:27:18,500 --> 00:27:16,919
you know and just people you just want

600
00:27:20,240 --> 00:27:18,510
to spend more and more time with and you

601
00:27:23,560 --> 00:27:20,250
have to realize that that time is very

602
00:27:25,789 --> 00:27:23,570
precious and yes six years have gone by

603
00:27:27,890 --> 00:27:25,799
we still miss him and we still get

604
00:27:29,149 --> 00:27:27,900
emails lots of emails to this day for

605
00:27:31,430 --> 00:27:29,159
people who are just discovering the

606
00:27:33,710 --> 00:27:31,440
skeptics guide recently new listeners

607
00:27:37,580 --> 00:27:33,720
and they you know have to let us know

608
00:27:40,640 --> 00:27:37,590
about how much they enjoyed Perry wally

609
00:27:42,620 --> 00:27:40,650
was around so it's very very nice to

610
00:27:44,480 --> 00:27:42,630
hear those comments I remember sending

611
00:27:45,980 --> 00:27:44,490
an audio message to the skeptics guide

612
00:27:49,760 --> 00:27:45,990
to the universe when Perry was still on

613
00:27:51,710 --> 00:27:49,770

the show saying i hope the whole crew

614
00:27:53,330 --> 00:27:51,720
can come to australia so i'm sad perry

615
00:27:54,770 --> 00:27:53,340
didn't make it in the end but you did

616
00:27:58,909 --> 00:27:54,780
and the others did of course in the year

617
00:28:02,020 --> 00:27:58,919
2010 for tam australia and you guys i

618
00:28:04,250 --> 00:28:02,030
guess you guys are sort of treated like

619
00:28:09,260 --> 00:28:04,260
skeptical rock stars when you were here

620
00:28:12,680 --> 00:28:09,270
haha is there such a thing oh yeah okay

621
00:28:15,049 --> 00:28:12,690
so um I'll accept that you know for what

622
00:28:18,760 --> 00:28:15,059
it is you know we try to take we try to

623
00:28:20,930 --> 00:28:18,770
take those things in stride and the

624
00:28:23,880 --> 00:28:20,940
adventure I like to call it an adventure

625
00:28:25,110 --> 00:28:23,890
we had both going to and coming back

626
00:28:27,510 --> 00:28:25,120
from australia and of course the two

627
00:28:29,760 --> 00:28:27,520
weeks we spent in australia we're just a

628
00:28:32,430 --> 00:28:29,770
tremendous tremendous time for us not

629
00:28:34,470 --> 00:28:32,440
just professionally as in our skeptic

630
00:28:37,410 --> 00:28:34,480
careers but also personally we had our

631
00:28:39,780 --> 00:28:37,420
families with us just top to bottom and

632
00:28:42,260 --> 00:28:39,790
outstanding outstanding and wonderful

633
00:28:44,700 --> 00:28:42,270
experience one that we do want to repeat

634
00:28:46,830 --> 00:28:44,710
at some point I would say it's not a

635
00:28:48,900 --> 00:28:46,840
matter of if we ever return to Australia

636
00:28:51,440 --> 00:28:48,910
it's simply a matter of when we return

637
00:28:54,870 --> 00:28:51,450
to Australia now rebecca has been back

638
00:28:57,060 --> 00:28:54,880

and you know we're happy that you know

639
00:28:59,460 --> 00:28:57,070
she's able to be able to go to various

640
00:29:01,440 --> 00:28:59,470
places around the around the planet that

641
00:29:03,150 --> 00:29:01,450
sometimes the rest of us guys can't but

642
00:29:05,040 --> 00:29:03,160
Australia we will most certainly be

643
00:29:07,620 --> 00:29:05,050
coming back at some point apart from the

644
00:29:11,220 --> 00:29:07,630
wildlife at the conventions did you see

645
00:29:13,470 --> 00:29:11,230
any real Australian wildlife besides our

646
00:29:17,640 --> 00:29:13,480
trip to the Australia Zoo to the Sydney

647
00:29:21,000 --> 00:29:17,650
zoo oh we did yeah we made sure that we

648
00:29:24,030 --> 00:29:21,010
had plenty of time built in to head out

649
00:29:25,890 --> 00:29:24,040
to various parts of the country and see

650
00:29:27,750 --> 00:29:25,900
a couple different things we spent a

651
00:29:32,670 --> 00:29:27,760
whole day out at the Blue Mountains

652
00:29:35,430 --> 00:29:32,680
which was tremendous Steve who is an

653
00:29:38,640 --> 00:29:35,440
avid birder along with his oldest

654
00:29:41,400 --> 00:29:38,650
daughter you know couldn't snap enough

655
00:29:43,710 --> 00:29:41,410
pictures of all the birds and other

656
00:29:46,260 --> 00:29:43,720
creatures that that we were exposed to

657
00:29:48,780 --> 00:29:46,270
their out in the mountains and we also

658
00:29:51,720 --> 00:29:48,790
after our time in Sydney was up we

659
00:29:53,310 --> 00:29:51,730
headed up to Cannes and spent some time

660
00:29:56,910 --> 00:29:53,320
up there and we went into the rainforest

661
00:29:58,740 --> 00:29:56,920
and I was a whole nother experience of

662
00:30:00,810 --> 00:29:58,750
all different things that we saw there

663
00:30:02,670 --> 00:30:00,820

and like I'd mentioned the Sydney zoo of

664
00:30:04,950 --> 00:30:02,680
course with tremendous great great great

665
00:30:08,250 --> 00:30:04,960
day we spent out there as well so there

666
00:30:09,570 --> 00:30:08,260
was plenty of time to see a lot of the a

667
00:30:12,240 --> 00:30:09,580
lot of the creatures all around

668
00:30:13,640 --> 00:30:12,250
Australia do you personally get much fan

669
00:30:17,520 --> 00:30:13,650
mail from around the world and

670
00:30:20,850 --> 00:30:17,530
particularly from Australia yeah well we

671
00:30:22,560 --> 00:30:20,860
are an english-based podcast so

672
00:30:25,020 --> 00:30:22,570
obviously the english-speaking countries

673
00:30:26,570 --> 00:30:25,030
of the world are the ones where we are

674
00:30:30,480 --> 00:30:26,580
listen to the most but not exclusively

675
00:30:34,080 --> 00:30:30,490
not exclusively and Australia we do seem

676
00:30:35,910 --> 00:30:34,090
to have quite a bit of listeners from

677
00:30:37,710 --> 00:30:35,920
Australian we're very very happy about

678
00:30:40,700 --> 00:30:37,720
that we seem to

679
00:30:45,750 --> 00:30:40,710
strike a tone with them I think we are

680
00:30:47,190 --> 00:30:45,760
share a lot of things in common even

681
00:30:50,580 --> 00:30:47,200
though we kind of each of our countries

682
00:30:53,550 --> 00:30:50,590
kind of developed on their own we sort

683
00:30:57,960 --> 00:30:53,560
of share similar traits and have similar

684
00:31:00,240 --> 00:30:57,970
customs and you know culturally and we

685
00:31:03,390 --> 00:31:00,250
have similarities as well so there's a

686
00:31:07,380 --> 00:31:03,400
natural sort of connection that I think

687
00:31:09,810 --> 00:31:07,390
we make with Australians because of

688
00:31:11,550 --> 00:31:09,820

those other common factors between our

689
00:31:13,740 --> 00:31:11,560
two countries and our culture's

690
00:31:16,680 --> 00:31:13,750
absolutely right and I feel the same way

691
00:31:19,530 --> 00:31:16,690
I get many many listeners to this show

692
00:31:22,860 --> 00:31:19,540
from the United States and it's nice to

693
00:31:25,020 --> 00:31:22,870
know that both our podcasts go around

694
00:31:28,470 --> 00:31:25,030
the world mm-hmm well I'm going to be

695
00:31:31,470 --> 00:31:28,480
pulling out all stops to join you I hope

696
00:31:34,740 --> 00:31:31,480
at the skeptics convention you have in

697
00:31:37,920 --> 00:31:34,750
new york in april what can you tell me

698
00:31:39,660 --> 00:31:37,930
about that our next convention our

699
00:31:42,390 --> 00:31:39,670
annual convention it's turned into

700
00:31:46,230 --> 00:31:42,400
called nexus the new england conference

701
00:31:48,300 --> 00:31:46,240
for science and skepticism and we are

702
00:31:50,820 --> 00:31:48,310
the co-hosts of it along with our

703
00:31:53,190 --> 00:31:50,830
friends over at the new york skeptics

704
00:31:54,660 --> 00:31:53,200
society so together we make the north

705
00:31:58,320 --> 00:31:54,670
eastern conference on science and

706
00:32:00,570 --> 00:31:58,330
skepticism each year in April we have

707
00:32:02,400 --> 00:32:00,580
well what could I guess be considered

708
00:32:04,200 --> 00:32:02,410
sort of a mini tam for lack of a better

709
00:32:07,110 --> 00:32:04,210
description if anyone has ever been to

710
00:32:13,920 --> 00:32:07,120
Tam then this conference is very similar

711
00:32:17,220 --> 00:32:13,930
in peep in style and substance and guest

712
00:32:19,050 --> 00:32:17,230
speakers and some other things that we

713
00:32:22,430 --> 00:32:19,060

do we have lots of artists performing

714
00:32:25,560 --> 00:32:22,440
you know musicians I'll come in and

715
00:32:27,510 --> 00:32:25,570
people also come they do they come in

716
00:32:31,500 --> 00:32:27,520
from around the world to to attend this

717
00:32:33,900 --> 00:32:31,510
conference in New York City which next

718
00:32:35,790 --> 00:32:33,910
one is coming up in 2014 in April and

719
00:32:38,340 --> 00:32:35,800
Richard you know we were talking at the

720
00:32:40,170 --> 00:32:38,350
last time about that sort of putting

721
00:32:42,210 --> 00:32:40,180
together a little plan for you to make

722
00:32:43,650 --> 00:32:42,220
sure that you time your trip back to the

723
00:32:45,990 --> 00:32:43,660
United States or the east coast of the

724
00:32:47,970 --> 00:32:46,000
united states that you'll be here right

725
00:32:50,680 --> 00:32:47,980
about the time that Tam is going on and

726
00:32:52,750 --> 00:32:50,690
you know that you will be a very very

727
00:32:54,640 --> 00:32:52,760
special and featured guest of ours when

728
00:32:57,280 --> 00:32:54,650
you are here no it's very kind of you i

729
00:33:00,400 --> 00:32:57,290
hope i can make it i hope so and I've

730
00:33:02,440 --> 00:33:00,410
never been to New York before I would be

731
00:33:04,390 --> 00:33:02,450
looking forward to that it's a

732
00:33:06,700 --> 00:33:04,400
one-of-a-kind city I mean I imagine you

733
00:33:07,990 --> 00:33:06,710
can say that just about of any city but

734
00:33:12,460 --> 00:33:08,000
you know everything you've heard about

735
00:33:15,370 --> 00:33:12,470
New York especially the good stuff is is

736
00:33:17,290 --> 00:33:15,380
all true and you know don't worry so

737
00:33:19,090 --> 00:33:17,300
much about the bad stuff that's you know

738
00:33:20,320 --> 00:33:19,100

few and far between well we'll make sure

739
00:33:21,850 --> 00:33:20,330
we keep you out of trouble when you're

740
00:33:23,890 --> 00:33:21,860
here so yeah I do hope that we can

741
00:33:25,600 --> 00:33:23,900
really make that a reality oh I wouldn't

742
00:33:28,420 --> 00:33:25,610
worry Evan I wouldn't worry walking

743
00:33:31,840 --> 00:33:28,430
around New York I just grabbed George

744
00:33:33,310 --> 00:33:31,850
shrub and he'd look at me yeah of course

745
00:33:35,620 --> 00:33:33,320
he will yes he's got eyes in the back of

746
00:33:37,690 --> 00:33:35,630
his head it's not like he has hair there

747
00:33:39,670 --> 00:33:37,700
to get in the way or anything well Evan

748
00:33:41,500 --> 00:33:39,680
Bernstein thanks very much for chatting

749
00:33:43,060 --> 00:33:41,510
to the skeptic zone I know a lot of

750
00:33:46,720 --> 00:33:43,070
people who listen to the skeptic zone

751
00:33:49,390 --> 00:33:46,730
listen to SGU and vice versa I'm pleased

752
00:33:52,120 --> 00:33:49,400
to say and you're always welcome to come

753
00:33:55,000 --> 00:33:52,130
back to Australia and who knows you

754
00:33:57,790 --> 00:33:55,010
might be back here sooner rather than

755
00:33:59,620 --> 00:33:57,800
later but for now Evan Bernstein thank

756
00:34:01,750 --> 00:33:59,630
you for being on the skeptic zone

757
00:34:15,240 --> 00:34:01,760
Richard thank you very much i hope to

758
00:34:19,589 --> 00:34:18,099
you've argued against the same woo so

759
00:34:22,089 --> 00:34:19,599
many times you can do it in your sleep

760
00:34:24,250 --> 00:34:22,099
with trying to stop the nonsense one

761
00:34:27,010 --> 00:34:24,260
person at a time join guerrilla

762
00:34:28,809 --> 00:34:27,020
skepticism on Wikipedia help us make

763
00:34:31,180 --> 00:34:28,819

sure the best skeptical information is

764
00:34:34,419 --> 00:34:31,190
always at everyone's fingertips we need

765
00:34:36,790 --> 00:34:34,429
writers editors translators we need you

766
00:34:39,879 --> 00:34:36,800
and take as much or as little time as

767
00:34:42,040 --> 00:34:39,889
you can give us help us make Wikipedia

768
00:34:43,450 --> 00:34:42,050
as accurate as it can be and you'll

769
00:34:46,899 --> 00:34:43,460
literally be helping people while you

770
00:34:49,059 --> 00:34:46,909
sleep to join us or find out more send a

771
00:34:52,740 --> 00:34:49,069
facebook friend request to susan Berbick

772
00:35:06,660 --> 00:34:52,750
that's ger be IC guerrilla skepticism

773
00:35:08,829 --> 00:35:06,670
the time is now well I'm here the

774
00:35:11,319 --> 00:35:08,839
Darling Harbour we've enjoying a great

775
00:35:13,210 --> 00:35:11,329
dinner with Pamela gay but well it's

776
00:35:14,650 --> 00:35:13,220
kevin davies president of the canberra

777
00:35:16,390 --> 00:35:14,660
skeptics Kevin you've traveled all the

778
00:35:18,430 --> 00:35:16,400
way to Sydney just to hear Pamela's she

779
00:35:21,309 --> 00:35:18,440
is truly amazing research and she's been

780
00:35:24,670 --> 00:35:21,319
talking for over an hour now now and a

781
00:35:27,130 --> 00:35:24,680
half just answering questions and I'm so

782
00:35:30,190 --> 00:35:27,140
grateful I got to come up here and

783
00:35:34,180 --> 00:35:30,200
listen to her and talk to her I've heard

784
00:35:36,579 --> 00:35:34,190
her a couple of times at Tamar's and TAM

785
00:35:39,160 --> 00:35:36,589
2011 but this is going to be hard to

786
00:35:40,569 --> 00:35:39,170
talk yeah it's and we've just snuck away

787
00:35:42,670 --> 00:35:40,579
so I gave him a quick chat with you

788
00:35:44,170 --> 00:35:42,680

she's still there she's got a room full

789
00:35:46,270 --> 00:35:44,180
of people listening to what she has to

790
00:35:48,460 --> 00:35:46,280
say they're firing questions about the

791
00:35:51,339 --> 00:35:48,470
universe about the expansion of space

792
00:35:53,829 --> 00:35:51,349
she's answering them all it's it's just

793
00:35:57,250 --> 00:35:53,839
staggering she truly is a spellbinding

794
00:35:58,839 --> 00:35:57,260
person she is now of course the exciting

795
00:36:00,579 --> 00:35:58,849
news is our listeners know is there's

796
00:36:02,470 --> 00:36:00,589
the big Australian skeptics national

797
00:36:05,559 --> 00:36:02,480
convention coming up and it's coming up

798
00:36:07,990 --> 00:36:05,569
soon can we are very soon 22nd to 24th

799
00:36:10,450 --> 00:36:08,000
of November come along it's going to be

800
00:36:12,339 --> 00:36:10,460
a fantastic time we have a number of

801
00:36:15,819 --> 00:36:12,349
great speakers including the one the

802
00:36:17,599 --> 00:36:15,829
only the incomparable riches Saunders we

803
00:36:19,279 --> 00:36:17,609
have Chris French coming along we

804
00:36:21,289 --> 00:36:19,289
so have a number of speakers from

805
00:36:22,460 --> 00:36:21,299
Canberra and I always enjoy the

806
00:36:24,229 --> 00:36:22,470
Australian skeptics National Convention

807
00:36:25,640 --> 00:36:24,239
and every time I've gone along it's been

808
00:36:27,559 --> 00:36:25,650
a lot of fun it's been interesting talks

809
00:36:29,239 --> 00:36:27,569
and the dinner of course it's always a

810
00:36:31,400 --> 00:36:29,249
highlight we have the bent spoon but

811
00:36:33,700 --> 00:36:31,410
also this dinner is going to be a lot of

812
00:36:36,739 --> 00:36:33,710
fun because it's a doctor who theme yes

813
00:36:41,599 --> 00:36:36,749

through a strange quirk of history or

814
00:36:43,099 --> 00:36:41,609
maybe even a conspiracy yes the 50th

815
00:36:45,589 --> 00:36:43,109
anniversary of the first screening of

816
00:36:48,410 --> 00:36:45,599
Doctor Who happened the day after the

817
00:36:51,289 --> 00:36:48,420
50th anniversary of the assassination of

818
00:36:54,380 --> 00:36:51,299
JFK coincidence i think not i'm going to

819
00:36:56,720 --> 00:36:54,390
conspiracy resilient so it's going to be

820
00:36:57,890 --> 00:36:56,730
a great dinner the dinners always a lot

821
00:36:59,900 --> 00:36:57,900
of fun of the signs give access to

822
00:37:00,979 --> 00:36:59,910
conventions there the presentation is

823
00:37:02,660 --> 00:37:00,989
the best booth award I don't know who's

824
00:37:04,009 --> 00:37:02,670
going to win it this year he knows who

825
00:37:07,099 --> 00:37:04,019
knows there's always a lot of good

826
00:37:10,700 --> 00:37:07,109
candidate and my minder you can see if i

827
00:37:13,729 --> 00:37:10,710
can get my old Long Tom Baker scarf out

828
00:37:15,259 --> 00:37:13,739
of the cupboard no they may be look

829
00:37:17,450 --> 00:37:15,269
forward to saying I had one once almost

830
00:37:19,220 --> 00:37:17,460
I still got it I don't know anyway the

831
00:37:20,599 --> 00:37:19,230
website people need to visit to buy

832
00:37:24,769 --> 00:37:20,609
their tickets because time is running

833
00:37:28,009 --> 00:37:24,779
out is www national skeptics convention

834
00:37:29,749 --> 00:37:28,019
dot org national skeptics convention dot

835
00:37:31,759 --> 00:37:29,759
org is the website you can buy your

836
00:37:33,559 --> 00:37:31,769
tickets there now is the time to get

837
00:37:35,450 --> 00:37:33,569
those tickets I know you have your

838
00:37:37,160 --> 00:37:35,460

selling the tickets fast it's like six

839
00:37:39,650 --> 00:37:37,170
weeks away something like that seven

840
00:37:41,029 --> 00:37:39,660
weeks not long not long it seems a lot

841
00:37:43,400 --> 00:37:41,039
longer when we first agreed to do it

842
00:37:45,200 --> 00:37:43,410
it's getting a lot closer now I know the

843
00:37:46,729 --> 00:37:45,210
feeling Kevin I can't wait for it and

844
00:37:55,370 --> 00:37:46,739
i'll see you in canberra thank you very

845
00:38:00,390 --> 00:37:58,380
hey fellow skeptics I'm trench the

846
00:38:02,700 --> 00:38:00,400
co-host of a podcast called seeds of

847
00:38:11,660 --> 00:38:02,710
doubt and creative a new project called

848
00:38:17,040 --> 00:38:14,339
Dropbox is dedicated to providing new

849
00:38:18,960 --> 00:38:17,050
music for your radio show or podcast and

850
00:38:21,390 --> 00:38:18,970
to help support your cause through the

851
00:38:23,790 --> 00:38:21,400
sound waves the song you're listening to

852
00:38:26,760 --> 00:38:23,800
is called keep looking up and can be

853
00:38:35,109 --> 00:38:26,770
heard on the podcast oddments by college

854
00:38:53,319 --> 00:38:37,900
you need some new music check me out

855
00:38:53,329 --> 00:39:01,770
is my not spooky action at the distance

856
00:39:06,340 --> 00:39:04,450
welcome skeptic zone listeners welcome

857
00:39:08,620 --> 00:39:06,350
skeptic zone listeners its cub reporter

858
00:39:10,420 --> 00:39:08,630
main out here and I'm ringside literally

859
00:39:11,470 --> 00:39:10,430
as the mystery investigators are about

860
00:39:13,270 --> 00:39:11,480
to do their thing at the powerhouse

861
00:39:14,620 --> 00:39:13,280
museum they've done it before and

862
00:39:16,480 --> 00:39:14,630
there's been action there's been

863
00:39:17,920 --> 00:39:16,490

excitement there's been tears three

864
00:39:19,450 --> 00:39:17,930
governments have fallen during one of

865
00:39:20,740 --> 00:39:19,460
their performances now performance only

866
00:39:22,690 --> 00:39:20,750
that stuff I know it's amazing how they

867
00:39:25,570 --> 00:39:22,700
do it but I can look around i seed ice

868
00:39:26,740 --> 00:39:25,580
water all sorts of things that would be

869
00:39:28,750 --> 00:39:26,750
at my place on a SAT there night about

870
00:39:30,280 --> 00:39:28,760
eleven o'clock but they they gotta learn

871
00:39:32,050 --> 00:39:30,290
about science and that's Richard

872
00:39:33,670 --> 00:39:32,060
Saunders as you say in the business

873
00:39:35,020 --> 00:39:33,680
stroking the balloon Richard how's it

874
00:39:36,190 --> 00:39:35,030
going I thought this is one of the

875
00:39:38,800 --> 00:39:36,200
things that would be at your place on a

876
00:39:42,280 --> 00:39:38,810
late on the night and over there I see

877
00:39:45,460 --> 00:39:42,290
dr. H is using clinique cosmetics hi hi

878
00:39:47,860 --> 00:39:45,470
dr. Maynard aren't you aren't you amazed

879
00:39:49,600 --> 00:39:47,870
that I with that I recognize the brand

880
00:39:52,270 --> 00:39:49,610
of your cosmetics from 20 feet away

881
00:39:54,790 --> 00:39:52,280
because you use the same one I give it

882
00:39:56,350 --> 00:39:54,800
all away okay now you're actually

883
00:39:57,940 --> 00:39:56,360
putting on a bit of makeup right now

884
00:40:00,550 --> 00:39:57,950
Richard you working sans makeup tonight

885
00:40:02,170 --> 00:40:00,560
sans makeup just for tonight now you

886
00:40:04,450 --> 00:40:02,180
just outside the coals theatre here now

887
00:40:06,400 --> 00:40:04,460
inside there there's some science going

888
00:40:07,810 --> 00:40:06,410

on but you're going to be pre sciencing

889
00:40:09,430 --> 00:40:07,820
them as the people come out outside

890
00:40:12,070 --> 00:40:09,440
there will be some signs going on as

891
00:40:13,240 --> 00:40:12,080
well rach and i had to perform some of

892
00:40:14,740 --> 00:40:13,250
the mystery investigators we got the

893
00:40:16,030 --> 00:40:14,750
water divining set up we've got the bed

894
00:40:18,010 --> 00:40:16,040
of nails over there we're going to be

895
00:40:19,810 --> 00:40:18,020
doing our power balance and spoon

896
00:40:22,090 --> 00:40:19,820
bending right now what sort of audience

897
00:40:24,040 --> 00:40:22,100
it usually you work to the school kids

898
00:40:25,570 --> 00:40:24,050
who's expected tonight a huge

899
00:40:27,700 --> 00:40:25,580
cross-section of society will be coming

900
00:40:30,250 --> 00:40:27,710
tonight for the powerhouse night of

901
00:40:32,680 --> 00:40:30,260
science very exciting from nine to

902
00:40:34,300 --> 00:40:32,690
ninety i guess i'd say and what dr.

903
00:40:35,620 --> 00:40:34,310
Rocha whatever name is um what what will

904
00:40:38,380 --> 00:40:35,630
you actually be doing in the show

905
00:40:41,490 --> 00:40:38,390
Richard got the white pawns Institute

906
00:40:44,980 --> 00:40:41,500
lab coat on you've got the black sort of

907
00:40:46,930 --> 00:40:44,990
Wacky Races evil black coat on what are

908
00:40:49,900 --> 00:40:46,940
you doing I guess I'm the emo scientist

909
00:40:52,030 --> 00:40:49,910
tonight maybe may not I don't know emo

910
00:40:53,620 --> 00:40:52,040
still exist we still have those so when

911
00:40:55,660 --> 00:40:53,630
Richard says stuff like and that's

912
00:40:58,420 --> 00:40:55,670
because of air pressure you go don't

913
00:41:00,010 --> 00:40:58,430

tell me I know that's other thing you

914
00:41:01,450 --> 00:41:00,020
know smiley know she's gonna be standing

915
00:41:03,220 --> 00:41:01,460
on my back while I'm on the bed of nails

916
00:41:05,650 --> 00:41:03,230
yeah it's true and jumping up and down

917
00:41:07,150 --> 00:41:05,660
as well so that ought to be fun just

918
00:41:08,620 --> 00:41:07,160
don't tell Richard that okay that's all

919
00:41:11,980 --> 00:41:08,630
going to happening very soon folks stay

920
00:41:14,460 --> 00:41:11,990
tuned I'm just watching from a distance

921
00:41:17,490 --> 00:41:14,470
as the mystery investigators have

922
00:41:22,430 --> 00:41:17,500
they're very scary very dangerous bed of

923
00:41:30,540 --> 00:41:28,349
34 is demonstrating it's a real bed of

924
00:41:34,040 --> 00:41:30,550
nails by popping a balloon on it he will

925
00:41:37,760 --> 00:41:34,050
now invite a member of the audience to

926
00:41:42,960 --> 00:41:40,890
he's inviting dr. hu to help him

927
00:41:45,660 --> 00:41:42,970
demonstrate it's a real bed of nails

928
00:41:54,240 --> 00:41:45,670
that you can lie on the real bed of

929
00:41:56,280 --> 00:41:54,250
nails without getting hurt usually at

930
00:41:58,890 --> 00:41:56,290
this stage a volunteer from the audience

931
00:42:02,340 --> 00:41:58,900
is going to now lie on the bed of nails

932
00:42:10,340 --> 00:42:02,350
that richard has just lay on and here

933
00:42:15,150 --> 00:42:10,350
she goes how's it feel down there

934
00:42:17,520 --> 00:42:15,160
fantastic it's quite comfortable with

935
00:42:27,180 --> 00:42:17,530
evil there all night all right up your

936
00:42:28,770 --> 00:42:27,190
training and now the mystery science

937
00:42:31,590 --> 00:42:28,780
investigators are going to be doing some

938
00:42:34,620 --> 00:42:31,600

water divining this is we're using a

939
00:42:37,860 --> 00:42:34,630
stick they can find some water dr. Rocha

940
00:42:39,600 --> 00:42:37,870
course is an expert at alcohol dividing

941
00:42:42,840 --> 00:42:39,610
and she's been known to be able to find

942
00:42:44,770 --> 00:42:42,850
a pub from 500 kilometers away using any

943
00:42:46,880 --> 00:42:44,780
pointed burn

944
00:42:49,970 --> 00:42:46,890
Wow

945
00:42:52,849 --> 00:42:49,980
she once found a five-star hotel on a

946
00:42:58,490 --> 00:42:52,859
continent using only a credit card she's

947
00:43:03,130 --> 00:42:58,500
amazing multiple people who would like

948
00:43:10,580 --> 00:43:09,080
hey look i'm here with isabel what's

949
00:43:12,200 --> 00:43:10,590
going on who are you and why are you

950
00:43:15,140 --> 00:43:12,210
mucking around my liquid nitrogen for

951
00:43:16,820 --> 00:43:15,150
that's dangerous yes well so I'm Islam

952
00:43:18,500 --> 00:43:16,830
the manager of the ultimate Science

953
00:43:21,560 --> 00:43:18,510
Festival I work here at the powerhouse

954
00:43:24,410 --> 00:43:21,570
and together with a bunch of awesome

955
00:43:26,090 --> 00:43:24,420
wonderful people we've put this festival

956
00:43:29,180 --> 00:43:26,100
together and tonight's the big night of

957
00:43:31,760 --> 00:43:29,190
science so we've had we've heard from

958
00:43:34,790 --> 00:43:31,770
Adam Spencer we've heard from Emma

959
00:43:37,790 --> 00:43:34,800
Johnson and Derek Muller has been doing

960
00:43:39,140 --> 00:43:37,800
a great job hosting the evening and soon

961
00:43:40,550 --> 00:43:39,150
we're going to be seeing Ruben Merriman

962
00:43:42,980 --> 00:43:40,560
to some really cool science

963
00:43:44,090 --> 00:43:42,990

demonstrations and talk about what I

964
00:43:45,410 --> 00:43:44,100
want to know what you're doing with the

965
00:43:49,070 --> 00:43:45,420
liquid nitrogen you're just running

966
00:43:52,070 --> 00:43:49,080
around with me yeah I'm not sure I think

967
00:43:54,050 --> 00:43:52,080
it's a secret with what Reubens going to

968
00:43:56,090 --> 00:43:54,060
do but I think he's going to talk about

969
00:43:59,150 --> 00:43:56,100
actually the dangers of liquid nitrogen

970
00:44:01,520 --> 00:43:59,160
in cocktails there's been some accidents

971
00:44:04,340 --> 00:44:01,530
around the world where people have

972
00:44:07,490 --> 00:44:04,350
damaged their stomachs or even you know

973
00:44:09,350 --> 00:44:07,500
worse so so yeah Reubens going to talk

974
00:44:12,620 --> 00:44:09,360
about cocktails and and the signs of

975
00:44:15,080 --> 00:44:12,630
crowds and all that fun stuff so that's

976
00:44:17,120 --> 00:44:15,090
why I'm off to get some liquid nitrogen

977
00:44:20,000 --> 00:44:17,130
but yeah it's been a really really great

978
00:44:23,090 --> 00:44:20,010
evening lots of people great vibe drinks

979
00:44:24,440 --> 00:44:23,100
food beautiful music what discipline of

980
00:44:26,030 --> 00:44:24,450
science seems to be the big one tonight

981
00:44:27,650 --> 00:44:26,040
is it sort of mathematics physics

982
00:44:29,930 --> 00:44:27,660
chemistry which one seems to be the

983
00:44:33,380 --> 00:44:29,940
bigger one tonight oh god well you can't

984
00:44:37,070 --> 00:44:33,390
mean Adam Spencer did his prime numbers

985
00:44:40,130 --> 00:44:37,080
talk so you know math has been the Queen

986
00:44:43,340 --> 00:44:40,140
here the quitte the science queen but

987
00:44:46,010 --> 00:44:43,350
you know what Emma did such a great talk

988
00:44:49,160 --> 00:44:46,020

on marine biology

989
00:44:50,630 --> 00:44:49,170
yeah I just couldn't pink really it's a

990
00:44:51,920 --> 00:44:50,640
place we could go online to see what

991
00:44:54,830 --> 00:44:51,930
happened tonight or find out more about

992
00:44:57,320 --> 00:44:54,840
what's going on yeah definitely there's

993
00:44:59,690 --> 00:44:57,330
I mean this is the second day of the

994
00:45:02,690 --> 00:44:59,700
festival so there's a heaps more to come

995
00:45:05,480 --> 00:45:02,700
you can go to Ultimo's science festival

996
00:45:08,120 --> 00:45:05,490
com and all the information is there and

997
00:45:09,290 --> 00:45:08,130
you can book from there yeah okay we

998
00:45:11,000 --> 00:45:09,300
have fun in there and be careful with

999
00:45:14,210 --> 00:45:11,010
that liquid nitrogen cocktail yes

1000
00:45:15,590 --> 00:45:14,220
definitely thank you there's a little

1001
00:45:17,960 --> 00:45:15,600
bit of information of any budget

1002
00:45:27,450 --> 00:45:17,970
interested about investigating strange

1003
00:45:32,470 --> 00:45:29,500
how does gold your water divining

1004
00:45:33,790 --> 00:45:32,480
tonight yeah it's very interesting did

1005
00:45:36,900 --> 00:45:33,800
you come close to finding the water in

1006
00:45:40,150 --> 00:45:36,910
the bottle no not in the blind test no

1007
00:45:41,650 --> 00:45:40,160
well I never sera yes this is something

1008
00:45:44,440 --> 00:45:41,660
might like to try at home for finding

1009
00:45:47,340 --> 00:45:44,450
things around the house yes yeah and

1010
00:45:51,630 --> 00:45:47,350
what I really want to know is how he

1011
00:45:53,950 --> 00:45:51,640
freaked up spawn been to school ah well

1012
00:45:57,880 --> 00:45:53,960
Richard doesn't even tell me that but

1013
00:45:58,960 --> 00:45:57,890

well that's Arthur well Richard another

1014
00:46:01,330 --> 00:45:58,970
mother another mystery investigators

1015
00:46:02,620 --> 00:46:01,340
here we've got a lady there who was

1016
00:46:04,750 --> 00:46:02,630
doing the water divining who's

1017
00:46:06,310 --> 00:46:04,760
fascinated by your spoon trick and dr.

1018
00:46:08,890 --> 00:46:06,320
Reggie's trying to explain the spoon

1019
00:46:10,390 --> 00:46:08,900
trick to it good old uri geller a after

1020
00:46:12,220 --> 00:46:10,400
all these years that the stick is still

1021
00:46:13,840 --> 00:46:12,230
working people love it was it also i

1022
00:46:15,460 --> 00:46:13,850
explain the spoon trick to it and was

1023
00:46:17,290 --> 00:46:15,470
completely wrong I thought I thought

1024
00:46:19,570 --> 00:46:17,300
there was a third spoon involved but

1025
00:46:22,480 --> 00:46:19,580
that's not true at all oh no theres well

1026
00:46:24,790 --> 00:46:22,490
i like to use to and i can use one but

1027
00:46:26,200 --> 00:46:24,800
yeah it's a good trick yeah it's not and

1028
00:46:27,910 --> 00:46:26,210
how did you go tonight i mean you worked

1029
00:46:30,160 --> 00:46:27,920
you booked in some great fires in your

1030
00:46:32,380 --> 00:46:30,170
time and this of course was one of those

1031
00:46:34,090 --> 00:46:32,390
great foyers i mean where the band of

1032
00:46:35,830 --> 00:46:34,100
nails went down well we did about four

1033
00:46:38,020 --> 00:46:35,840
water divining tests we broke many

1034
00:46:39,340 --> 00:46:38,030
spoons so yeah good night I believe

1035
00:46:42,400 --> 00:46:39,350
they're explaining in there the dangers

1036
00:46:43,750 --> 00:46:42,410
of liquid nitrogen in cocktails oh yes

1037
00:46:45,520 --> 00:46:43,760
because recently some people were

1038
00:46:47,410 --> 00:46:45,530

actually hospitalized for that in a

1039
00:46:50,170 --> 00:46:47,420
South American country this is the

1040
00:46:52,300 --> 00:46:50,180
Darwin Awards listen no no it was a big

1041
00:46:53,830 --> 00:46:52,310
party it was like sponsored by a big

1042
00:46:55,720 --> 00:46:53,840
alcohol manufacturer and they poured

1043
00:46:58,780 --> 00:46:55,730
liquid nitrogen into the pool so that

1044
00:47:01,200 --> 00:46:58,790
there was a whole lot of nice yeah those

1045
00:47:04,330 --> 00:47:01,210
people got asphyxiated but also they put

1046
00:47:06,220 --> 00:47:04,340
dry ice into cocktails in a few years

1047
00:47:08,050 --> 00:47:06,230
and then and it hadn't dissolved

1048
00:47:09,430 --> 00:47:08,060
actually I think was liquid nitrogen

1049
00:47:11,110 --> 00:47:09,440
when all you really got to do is put in

1050
00:47:13,270 --> 00:47:11,120
look dry ice in cocktails dangerous

1051
00:47:16,270 --> 00:47:13,280
enough yeah yeah that liquid nitrogen is

1052
00:47:18,280 --> 00:47:16,280
minus 193 degrees Celsius hmm we're as

1053
00:47:20,410 --> 00:47:18,290
dry ice is only minus 80 degrees in

1054
00:47:22,510 --> 00:47:20,420
either case it doesn't go with minors

1055
00:47:24,340 --> 00:47:22,520
with plus 37 degrees which is your core

1056
00:47:27,820 --> 00:47:24,350
temperature I'll be trying to get some

1057
00:47:30,460 --> 00:47:27,830
liquid boron in a cocktail for years now

1058
00:47:31,470 --> 00:47:30,470
unknown or sell it to me liquid boron

1059
00:47:33,240 --> 00:47:31,480
for me

1060
00:47:35,730 --> 00:47:33,250
fan tell you you haven't had a cocktail

1061
00:47:37,140 --> 00:47:35,740
she held it with liquid boron and anyone

1062
00:47:39,090 --> 00:47:37,150
out there listening knows what I'm

1063
00:47:42,300 --> 00:47:39,100

talking about liquid nitrogen is purely

1064
00:47:43,620 --> 00:47:42,310
for you said that no damages okay well

1065
00:47:46,800 --> 00:47:43,630
I'm a scientist we can talk about that

1066
00:47:50,609 --> 00:47:46,810
later now Rach you had two people come

1067
00:47:53,430 --> 00:47:50,619
up to jewelry show how water divining is

1068
00:47:55,140 --> 00:47:53,440
often the ideomotor effect who these

1069
00:47:57,599 --> 00:47:55,150
people claim that they could do water

1070
00:47:59,040 --> 00:47:57,609
divining yeah and it's the same story i

1071
00:48:00,840 --> 00:47:59,050
often get actually is that their father

1072
00:48:02,849 --> 00:48:00,850
did it on their property many years ago

1073
00:48:04,740 --> 00:48:02,859
and they've done it through their family

1074
00:48:07,650 --> 00:48:04,750
and that they looked for something and

1075
00:48:10,380 --> 00:48:07,660
they found it but it's commonly a story

1076
00:48:12,810 --> 00:48:10,390
of well i looked for some water by

1077
00:48:14,940 --> 00:48:12,820
dividing over some grass and I dug down

1078
00:48:17,849 --> 00:48:14,950
and found some water well I think in

1079
00:48:20,280 --> 00:48:17,859
most cases in Australia if you dig under

1080
00:48:22,530 --> 00:48:20,290
the ground you'll find water and then

1081
00:48:24,900 --> 00:48:22,540
saying that quite vague things like him

1082
00:48:26,820 --> 00:48:24,910
I was looking for a trench in the earth

1083
00:48:29,370 --> 00:48:26,830
which i think is a crack in the earth

1084
00:48:30,870 --> 00:48:29,380
and I found a crack what I dare say

1085
00:48:33,599 --> 00:48:30,880
there's probably a lot of cracks in the

1086
00:48:35,870 --> 00:48:33,609
earth as well yeah so did you have time

1087
00:48:39,120 --> 00:48:35,880
to give them a quick lesson in geology

1088
00:48:40,859 --> 00:48:39,130

no I didn't actually and sometimes with

1089
00:48:42,090 --> 00:48:40,869
with people that I can disk this guy was

1090
00:48:43,770 --> 00:48:42,100
absolutely convinced and there's really

1091
00:48:45,870 --> 00:48:43,780
not much point so I really just the

1092
00:48:47,609 --> 00:48:45,880
older gentleman or they're the two older

1093
00:48:49,170 --> 00:48:47,619
gentleman one was from k PPD and

1094
00:48:53,880 --> 00:48:49,180
wellness or somewhere else Beauty told

1095
00:48:57,000 --> 00:48:53,890
me he did find faults in the ground yes

1096
00:49:00,630 --> 00:48:57,010
the same guy yeah well I found three

1097
00:49:02,700 --> 00:49:00,640
forts in the 730 report last week with

1098
00:49:05,160 --> 00:49:02,710
the divining rod and I believe dr. hu

1099
00:49:06,660 --> 00:49:05,170
once found a five-star restaurant in a

1100
00:49:10,440 --> 00:49:06,670
continent with only using a credit card

1101
00:49:13,440 --> 00:49:10,450
in a Bic pen as is true without even a

1102
00:49:15,090 --> 00:49:13,450
phone or GPS I just found it in fact I

1103
00:49:27,290 --> 00:49:15,100
can find my way to a pub quite often too

1104
00:49:35,000 --> 00:49:31,260
hey Kenny oh hi Tom I save this part

1105
00:49:37,410 --> 00:49:35,010
yeah yes great weather oh look a unicorn

1106
00:49:40,590 --> 00:49:37,420
unicorn there are no such things as

1107
00:49:42,780 --> 00:49:40,600
unicorns silly yes there is no there

1108
00:49:45,020 --> 00:49:42,790
isn't hey guys what are you arguing

1109
00:49:48,060 --> 00:49:45,030
about tom thinks unicorns are real

1110
00:49:51,150 --> 00:49:48,070
thanks so are let's look us up in the

1111
00:49:52,890 --> 00:49:51,160
skeptics dictionary the what how can we

1112
00:49:54,600 --> 00:49:52,900
do this in this park there is the

1113
00:49:56,310 --> 00:49:54,610

computer here you guys probably don't

1114
00:49:59,370 --> 00:49:56,320
know about the skeptics dictionary app

1115
00:50:03,300 --> 00:49:59,380
available now for iPhone iPad and iPod

1116
00:50:04,860 --> 00:50:03,310
touch in the App Store Wow cool the app

1117
00:50:07,050 --> 00:50:04,870
lets you access all of the great

1118
00:50:09,660 --> 00:50:07,060
skeptics dictionary articles when you're

1119
00:50:12,360 --> 00:50:09,670
on the go here let me look up unicorns

1120
00:50:14,910 --> 00:50:12,370
now cool Kenny prepare to be proven

1121
00:50:19,050 --> 00:50:14,920
wrong it says here the unicorn is a

1122
00:50:20,310 --> 00:50:19,060
creature from fables aha actually I see

1123
00:50:22,890 --> 00:50:20,320
now that someone just dumped their ice

1124
00:50:35,490 --> 00:50:22,900
cream cone on that horse's head thanks

1125
00:50:40,570 --> 00:50:37,960
thank you for listening to the skeptic

1126
00:50:43,480 --> 00:50:40,580
zone and coming up next week another

1127
00:50:46,000 --> 00:50:43,490
interview with Pamela gade from Maynard

1128
00:50:48,340 --> 00:50:46,010
now why Pamela gay was doing a special

1129
00:50:50,890 --> 00:50:48,350
skeptics in the pub only a few hours ago

1130
00:50:52,780 --> 00:50:50,900
may not found some time to sit down with

1131
00:50:55,990 --> 00:50:52,790
her and have a chat so that's coming up

1132
00:50:58,540 --> 00:50:56,000
on next week's show also on next week's

1133
00:51:02,710 --> 00:50:58,550
show I hope to chat with a man who wants

1134
00:51:05,200 --> 00:51:02,720
to go to Mars and not come back hmm that

1135
00:51:07,060 --> 00:51:05,210
should be interesting and thank you to

1136
00:51:12,430 --> 00:51:07,070
those people who chip in to the skeptic

1137
00:51:14,890 --> 00:51:12,440
zone via paypal at ww skeptic zone TV

1138
00:51:17,349 --> 00:51:14,900

less than a dollar a week it all helps

1139
00:51:19,480 --> 00:51:17,359
and why you're at the website scroll

1140
00:51:21,580 --> 00:51:19,490
down a little bit past the show notes

1141
00:51:25,000 --> 00:51:21,590
for this episode and you'll see the link

1142
00:51:27,280 --> 00:51:25,010
to solar flare the space adventure we

1143
00:51:28,870 --> 00:51:27,290
did a couple of months ago what a lot of

1144
00:51:32,099 --> 00:51:28,880
fun that was if you haven't heard it

1145
00:51:34,750 --> 00:51:32,109
solar flare the audio space adventure

1146
00:51:37,359 --> 00:51:34,760
but for now until next time this is

1147
00:51:44,470 --> 00:51:37,369
Richard Saunders and Fred the cap

1148
00:51:47,830 --> 00:51:44,480
signing off from Sydney Australia you've

1149
00:51:52,450 --> 00:51:47,840
been listening to the skeptic zone visit

1150
00:51:54,940 --> 00:51:52,460
our website at www skeptics on TV for