THE SKEPTIC ZONE PODCAST

www.skepticzone.tv

Show 468

8 October 2017

Dr Pamela Gay

Dr Pamela Gay needs your help!

Eran Segev chats to
Massimo Polidoro and James Randi

Maynard finds musical dinosaurs in Sydney
with Tim Ferguson and friends

Choice Magazine SHONKY Awards

Susan Gerbic in Germany
with Holm Gero Hümmler

David & Geoff Willis with Tim Ferguson

1
00:00:09,110 --> 00:00:05,920
[Music]

2
00:00:11,830 --> 00:00:09,120
welcome to the skeptic zone the podcast

3
00:00:13,910 --> 00:00:11,840
from Australia for science and reason

4
00:00:16,880 --> 00:00:13,920
[Music]

5
00:00:22,830 --> 00:00:16,890
[Applause]

6
00:00:25,330 --> 00:00:22,840
[Music]

7
00:00:28,749 --> 00:00:25,340
yes it's the skeptic zone podcast

8
00:00:32,439 --> 00:00:28,759
episode number 468 for the 8th of

9
00:00:34,810 --> 00:00:32,449
October 2017 richardsaunders here with

10
00:00:36,869 --> 00:00:34,820
you from Sydney Australia I'd better

11
00:00:39,490 --> 00:00:36,879
make this quick the show is a pretty

12
00:00:42,040 --> 00:00:39,500
jammed packed full to the brim full to

13
00:00:44,829 --> 00:00:42,050

the boot overflowing where's my

14
00:00:46,509 --> 00:00:44,839
thesaurus it's a big show starting the

15
00:00:49,359 --> 00:00:46,519
show is an interview with a very dear

16
00:00:51,430 --> 00:00:49,369
old friend of mine not to say that she's

17
00:00:53,289 --> 00:00:51,440
old that we've known each other for 10

18
00:00:56,170 --> 00:00:53,299
years so she's an old friend if you

19
00:00:59,170 --> 00:00:56,180
understand my meaning dr. pamela game

20
00:01:03,729 --> 00:00:59,180
dr. pamela gaye the astronomer whose

21
00:01:06,039 --> 00:01:03,739
speciality is variable stars variable

22
00:01:09,550 --> 00:01:06,049
stars today Pamela's going to tell us

23
00:01:13,390 --> 00:01:09,560
about a way you yes you you can help

24
00:01:16,570 --> 00:01:13,400
science by identifying pictures taken

25
00:01:18,789 --> 00:01:16,580
from space of Earth always a pleasure to

26
00:01:20,739 --> 00:01:18,799
chat to dr. Pamela Gaye and I'm sure

27
00:01:23,020 --> 00:01:20,749
you'll find this interesting and a way

28
00:01:27,039 --> 00:01:23,030
for you to help science then it's a

29
00:01:28,779 --> 00:01:27,049
report of the recent shonky Awards in

30
00:01:31,480 --> 00:01:28,789
the woods from choice magazine the

31
00:01:33,459 --> 00:01:31,490
consumer magazine here in Australia and

32
00:01:36,849 --> 00:01:33,469
a few days ago I attended their annual

33
00:01:39,010 --> 00:01:36,859
shonky Awards a chunk is something that

34
00:01:41,399 --> 00:01:39,020
doesn't really work as it's claimed to

35
00:01:43,660 --> 00:01:41,409
do or it's a bit dodgy or doesn't

36
00:01:45,700 --> 00:01:43,670
function or you get the idea

37
00:01:47,319 --> 00:01:45,710
the shonky awards my report and some

38
00:01:50,940 --> 00:01:47,329

interviews coming up a little bit later

39
00:01:54,059 --> 00:01:50,950
then a special Maynard spooky action

40
00:01:57,160 --> 00:01:54,069
Maynard and I attended a performance of

41
00:01:59,260 --> 00:01:57,170
Billy in the dinosaurs written by Tim

42
00:02:02,620 --> 00:01:59,270
Ferguson from the Doug Anthony all-stars

43
00:02:06,370 --> 00:02:02,630
and the bunga bunga podcast together

44
00:02:08,230 --> 00:02:06,380
with Jeff and David Willis now we went

45
00:02:10,150 --> 00:02:08,240
along to the Australian Museum where we

46
00:02:12,309 --> 00:02:10,160
perform the mystery investigators every

47
00:02:15,570 --> 00:02:12,319
year to see a performance of Billy in

48
00:02:18,760 --> 00:02:15,580
the dinosaurs which is really our very

49
00:02:20,770 --> 00:02:18,770
interactive show for little children and

50
00:02:22,660 --> 00:02:20,780
the reason we're bringing this to you

51
00:02:26,080 --> 00:02:22,670
today is part of the skeptic zones

52
00:02:29,320 --> 00:02:26,090
broader mandate of promoting good

53
00:02:29,890 --> 00:02:29,330
science and Tim Ferguson certainly made

54
00:02:32,890 --> 00:02:29,900
sure that

55
00:02:35,920 --> 00:02:32,900
the science in this wonderful kids story

56
00:02:38,380 --> 00:02:35,930
is as accurate as it can be when it

57
00:02:41,110 --> 00:02:38,390
involves Australian dinosaurs a bit of

58
00:02:43,569 --> 00:02:41,120
music a bit of fun coming up with Billy

59
00:02:46,270 --> 00:02:43,579
and the dinosaurs then another report

60
00:02:49,809 --> 00:02:46,280
from Iran sir give from the recent

61
00:02:52,630 --> 00:02:49,819
European skeptics Congress today a run

62
00:02:55,839 --> 00:02:52,640
talks to the Italian sceptic Massimo

63
00:02:59,440 --> 00:02:55,849

palador oh and with him James the

64
00:03:00,460 --> 00:02:59,450
amazing Randi amazing is right at 89 he

65
00:03:03,699 --> 00:03:00,470
still globe-trotting

66
00:03:05,619 --> 00:03:03,709
and speaking at various conventions in

67
00:03:08,289 --> 00:03:05,629
fact I look forward very much to seeing

68
00:03:10,390 --> 00:03:08,299
James Randi who only in a few weeks in

69
00:03:12,099 --> 00:03:10,400
Las Vegas then to round off the show

70
00:03:13,449 --> 00:03:12,109
another report from our dear friend

71
00:03:16,210 --> 00:03:13,459
susan gerbic from the guerrilla

72
00:03:18,520 --> 00:03:16,220
skepticism on wikipedia as she makes her

73
00:03:21,550 --> 00:03:18,530
way round Europe and feeling a bit left

74
00:03:24,610 --> 00:03:21,560
out here and today Susan talks to

75
00:03:27,879 --> 00:03:24,620
hum-hum 'la who is a nuclear physicist

76
00:03:29,530 --> 00:03:27,889
and a skeptic now just before we get

77
00:03:31,449 --> 00:03:29,540
stuck into this week's episode of the

78
00:03:33,789 --> 00:03:31,459
skeptic zone a couple of quick notes and

79
00:03:36,640 --> 00:03:33,799
there'll be some more messages at the

80
00:03:39,400 --> 00:03:36,650
end of the show that you already know

81
00:03:41,650 --> 00:03:39,410
the Australian skeptics Tim Mendham and

82
00:03:43,809 --> 00:03:41,660
myself we have a late-night radio

83
00:03:45,939 --> 00:03:43,819
segment here in Australia on radio 2g be

84
00:03:48,490 --> 00:03:45,949
networked through the Macquarie Network

85
00:03:49,839 --> 00:03:48,500
and that's with Mike Williams and that's

86
00:03:52,689 --> 00:03:49,849
a lot of fun we've been doing that since

87
00:03:54,610 --> 00:03:52,699
February and just in the last couple of

88
00:03:59,140 --> 00:03:54,620

weeks we've picked up another one

89
00:04:02,170 --> 00:03:59,150
another radio segment this one is on the

90
00:04:04,330 --> 00:04:02,180
talkin lifestyle Network and that used

91
00:04:06,610 --> 00:04:04,340
to be known as to UE for those Sydney

92
00:04:09,250 --> 00:04:06,620
listeners and I've already done a couple

93
00:04:12,099 --> 00:04:09,260
of those the first official one was

94
00:04:13,899 --> 00:04:12,109
broadcast last week I'll put a link in

95
00:04:16,899 --> 00:04:13,909
the show notes and the topic was

96
00:04:19,000 --> 00:04:16,909
astrology so more sceptics on the radio

97
00:04:20,620 --> 00:04:19,010
and I'm looking forward to seeing you

98
00:04:22,089 --> 00:04:20,630
all in late November the Australian

99
00:04:24,399 --> 00:04:22,099
skeptics National Convention in

100
00:04:26,100 --> 00:04:24,409
conjunction with think Inc the skeptic

101
00:04:28,510 --> 00:04:26,110
zone will be doing a live broadcast

102
00:04:31,360 --> 00:04:28,520
there or a live recording I should say

103
00:04:33,370 --> 00:04:31,370
and don't forget the the dinner the

104
00:04:35,950 --> 00:04:33,380
annual skeptics Australian skeptics

105
00:04:37,930 --> 00:04:35,960
dinner and you can find details about

106
00:04:40,060 --> 00:04:37,940
that dinner at skeptics dot-com dot a

107
00:04:41,950 --> 00:04:40,070
you tickets are filling up fast it's

108
00:04:43,580 --> 00:04:41,960
gonna be a fabulous night of magic and

109
00:04:45,560 --> 00:04:43,590
comedy and spoon

110
00:04:49,159 --> 00:04:45,570
and may not running around like a

111
00:04:52,070 --> 00:04:49,169
lunatic and the awarding of the skeptics

112
00:04:55,580 --> 00:04:52,080
awards including the annual bent spoon

113
00:04:59,240 --> 00:04:55,590

award I hope to see many skeptics own

114
00:05:00,920 --> 00:04:59,250
fans at our annual dinner when I say our

115
00:05:02,300 --> 00:05:00,930
annual denotes because I'm also a member

116
00:05:03,710 --> 00:05:02,310
of the Australian skeptics although the

117
00:05:07,430 --> 00:05:03,720
skeptic zone is an independent

118
00:05:10,340 --> 00:05:07,440
production as you probably know but now

119
00:05:15,379 --> 00:05:10,350
it's time for me to oh I almost forgot

120
00:05:18,500 --> 00:05:15,389
oh I can't believe very quickly a couple

121
00:05:21,050 --> 00:05:18,510
of days ago I lined up a little lunch

122
00:05:23,980 --> 00:05:21,060
date with Carl cruising whiskey so he

123
00:05:26,690 --> 00:05:23,990
and I can catch up and on the same day

124
00:05:28,550 --> 00:05:26,700
we organized for our dear friend Lera

125
00:05:30,650 --> 00:05:28,560
Benham who's on the Australian skeptics

126
00:05:32,600 --> 00:05:30,660
committee to spend the day with Carl

127
00:05:35,719 --> 00:05:32,610
Lara's a science teacher so I thought

128
00:05:38,600 --> 00:05:35,729
that was quite appropriate so when it

129
00:05:40,879 --> 00:05:38,610
came time for me to turn up for lunch to

130
00:05:45,550 --> 00:05:40,889
catch up with Carl and see Lara

131
00:05:48,080 --> 00:05:45,560
out of the elevator walked Bill Nye and

132
00:05:51,080 --> 00:05:48,090
after I picked myself off the floor we

133
00:05:52,880 --> 00:05:51,090
had a nice lunch all together Wow

134
00:05:54,860 --> 00:05:52,890
that was that was something very special

135
00:05:56,870 --> 00:05:54,870
I wasn't expecting that bill his here

136
00:05:59,600 --> 00:05:56,880
bill Nyes here to do some talks around

137
00:06:02,330 --> 00:05:59,610
Australia and of course of course he

138
00:06:04,969 --> 00:06:02,340

could catch up with dr. Carl Kaczynski

139
00:06:07,010 --> 00:06:04,979
who is the the Australian Bill Nye and

140
00:06:09,380 --> 00:06:07,020
Bill Nye is the American doctor Carl

141
00:06:13,610 --> 00:06:09,390
Curzon Hiskey what a day that was a very

142
00:06:16,400 --> 00:06:13,620
memorable lunch hmm so to honor that

143
00:06:17,900 --> 00:06:16,410
we're gonna run outside jump into my car

144
00:06:20,300 --> 00:06:17,910
or get onto the tram or something and

145
00:06:22,850 --> 00:06:20,310
head for a young char s taranta that's

146
00:06:24,409 --> 00:06:22,860
what we had in fact I might wait till

147
00:06:24,860 --> 00:06:24,419
after the show cuz that's a long way to

148
00:06:28,040 --> 00:06:24,870
go

149
00:06:29,920 --> 00:06:28,050
well I'm contemplating all that I hope

150
00:06:51,450 --> 00:06:29,930
you enjoy this sceptic zone

151
00:06:54,940 --> 00:06:51,460
[Music]

152
00:06:57,640 --> 00:06:54,950
and joining me now on the line all the

153
00:07:00,490 --> 00:06:57,650
way from Edwardsville in Illinois

154
00:07:02,710 --> 00:07:00,500
Illinois a state of yet to visit it's

155
00:07:04,720 --> 00:07:02,720
the one and only one of the brightest

156
00:07:08,860 --> 00:07:04,730
stars in the heavens surely dr. Pamela

157
00:07:11,320 --> 00:07:08,870
gay oh thank you for having me on such a

158
00:07:14,320 --> 00:07:11,330
warm introduction well I can't help

159
00:07:16,270 --> 00:07:14,330
think of stars when I think of you with

160
00:07:19,240 --> 00:07:16,280
your work in astronomy and variable

161
00:07:21,550 --> 00:07:19,250
stars just quickly Pamela and it's such

162
00:07:23,410 --> 00:07:21,560
a fascinating topic just for our people

163
00:07:26,730 --> 00:07:23,420

out there who are the audience who may

164
00:07:29,830 --> 00:07:26,740
not know what exactly is a variable star

165
00:07:32,350 --> 00:07:29,840
it's it's a star that changes in

166
00:07:34,710 --> 00:07:32,360
brightness for any one of myriad of

167
00:07:37,570 --> 00:07:34,720
different reasons for instance a

168
00:07:40,780 --> 00:07:37,580
supernova is a star that varies once

169
00:07:42,910 --> 00:07:40,790
very violently as it ends its life but

170
00:07:45,280 --> 00:07:42,920
the the ones I studied are called

171
00:07:49,360 --> 00:07:45,290
pulsating variable stars these are stars

172
00:07:54,400 --> 00:07:49,370
that over the course of anywhere from

173
00:07:56,530 --> 00:07:54,410
hours to two weeks gradually change in

174
00:07:58,510 --> 00:07:56,540
brightness and color somewhat beating

175
00:08:00,700 --> 00:07:58,520
like a heart it's it's one of these

176
00:08:03,960 --> 00:08:00,710
things that a lot of people don't

177
00:08:06,610 --> 00:08:03,970
realize is that stars do they change and

178
00:08:09,730 --> 00:08:06,620
anyone who says that they want to love

179
00:08:12,520 --> 00:08:09,740
well that as constant as the Stars which

180
00:08:14,080 --> 00:08:12,530
is a Keats quote they don't know what

181
00:08:17,280 --> 00:08:14,090
they're getting into because they're

182
00:08:20,170 --> 00:08:17,290
looking for a highly variable future oh

183
00:08:21,460 --> 00:08:20,180
I'm sure they are but it's interesting I

184
00:08:23,440 --> 00:08:21,470
guess it's something that we don't think

185
00:08:24,760 --> 00:08:23,450
about when we gaze up to the stars every

186
00:08:27,550 --> 00:08:24,770
now and then we just see these little

187
00:08:29,860 --> 00:08:27,560
points of light I mean they twinkle to

188
00:08:32,260 --> 00:08:29,870

our eye because of what astronomers call

189
00:08:34,630 --> 00:08:32,270
seeing which is the interference or the

190
00:08:36,640 --> 00:08:34,640
I wouldn't want to say pollution

191
00:08:37,909 --> 00:08:36,650
necessarily of our atmosphere playing

192
00:08:42,019 --> 00:08:37,919
tricks on our

193
00:08:44,599 --> 00:08:42,029
in our eyes it's true your your average

194
00:08:46,849 --> 00:08:44,609
star we see the moment-to-moment

195
00:08:49,189 --> 00:08:46,859
twinkling that's mostly caused by

196
00:08:52,090 --> 00:08:49,199
different temperature variations and

197
00:08:56,539 --> 00:08:52,100
humidity variations in the atmosphere

198
00:08:57,979 --> 00:08:56,549
but planets don't twinkle so when you

199
00:08:59,989 --> 00:08:57,989
say twinkle twinkle little star it

200
00:09:04,009 --> 00:08:59,999
probably actually is a star and not

201
00:09:05,359 --> 00:09:04,019
being this or Jupiter or Mars so but so

202
00:09:07,970 --> 00:09:05,369
just just to interrupt you that does

203
00:09:10,669 --> 00:09:07,980
that mean that when the astronauts are

204
00:09:14,419 --> 00:09:10,679
on the shuttle or out in space or the

205
00:09:16,129 --> 00:09:14,429
Hubble telescope it sees stars somewhat

206
00:09:19,369 --> 00:09:16,139
differently with it more of a constant

207
00:09:21,259 --> 00:09:19,379
light oh yeah they don't have twinkling

208
00:09:23,319 --> 00:09:21,269
this is why we put Hubble where we did

209
00:09:26,239 --> 00:09:23,329
was get rid of all of that annoying

210
00:09:28,009 --> 00:09:26,249
atmospheric interference that's

211
00:09:29,749 --> 00:09:28,019
interesting so you can't really sing

212
00:09:31,999 --> 00:09:29,759
twinkle twinkle little star on the Space

213
00:09:33,739 --> 00:09:32,009

Shuttle where you could I suppose well

214
00:09:37,340 --> 00:09:33,749
you you could you just would have

215
00:09:40,579 --> 00:09:37,350
nothing to wish upon something exploding

216
00:09:43,009 --> 00:09:40,589
which again problems problems probably

217
00:09:45,470 --> 00:09:43,019
Pamela if I was in the Space Shuttle or

218
00:09:47,539 --> 00:09:45,480
the next generation whatever that may be

219
00:09:51,739 --> 00:09:47,549
and I'm whizzing around and I saw a star

220
00:09:54,019 --> 00:09:51,749
explode I think I would be concerned I I

221
00:09:56,419 --> 00:09:54,029
think that would be a valid concern but

222
00:09:58,819 --> 00:09:56,429
for the most part there's nothing close

223
00:10:01,489 --> 00:09:58,829
enough in danger of exploding that we

224
00:10:03,049 --> 00:10:01,499
actually have to worry what's kind of

225
00:10:05,210 --> 00:10:03,059
cool to think about is there's a few

226
00:10:07,489 --> 00:10:05,220
stars up in the sky right now there's

227
00:10:09,769 --> 00:10:07,499
baitul juice which is just becoming

228
00:10:11,749 --> 00:10:09,779
visible this time of year to everyone in

229
00:10:14,539 --> 00:10:11,759
the globe you can see it I can see it in

230
00:10:17,689 --> 00:10:14,549
our two different hemispheres and and

231
00:10:20,359 --> 00:10:17,699
baled use that shoulder of Orion it

232
00:10:23,179 --> 00:10:20,369
could explode any moment there there's

233
00:10:25,100 --> 00:10:23,189
other style star Zeta Carina which only

234
00:10:27,619 --> 00:10:25,110
you can see down in your southern

235
00:10:29,989 --> 00:10:27,629
hemisphere and I can't it's a another

236
00:10:32,989 --> 00:10:29,999
one that's liable to explode at any

237
00:10:35,479 --> 00:10:32,999
moment but these stars are so far away

238
00:10:37,639 --> 00:10:35,489

that the only real problem we're gonna

239
00:10:41,389 --> 00:10:37,649
have is trying to get in the right place

240
00:10:43,249 --> 00:10:41,399
to take the best photo what's awesome is

241
00:10:44,689 --> 00:10:43,259
both will be visible during the day when

242
00:10:46,970 --> 00:10:44,699
they finally do this whether it be

243
00:10:49,340 --> 00:10:46,980
tomorrow or a million years from now

244
00:10:50,389 --> 00:10:49,350
that's interesting and when you say any

245
00:10:51,740 --> 00:10:50,399
moment now

246
00:10:54,020 --> 00:10:51,750
it's poss

247
00:10:57,710 --> 00:10:54,030
that is you and I are having this chat

248
00:10:59,570 --> 00:10:57,720
on what is what is it a Wednesday for me

249
00:11:01,820 --> 00:10:59,580
and I think it's the Tuesday for you

250
00:11:04,070 --> 00:11:01,830
that both these stars have indeed

251
00:11:07,040 --> 00:11:04,080
already exploded how long would it take

252
00:11:09,290 --> 00:11:07,050
for us to get that information oh I

253
00:11:11,270 --> 00:11:09,300
don't remember the exact distances of

254
00:11:14,270 --> 00:11:11,280
the two of them but I believe it's order

255
00:11:18,140 --> 00:11:14,280
of hundreds of light-years away which

256
00:11:21,050 --> 00:11:18,150
means we're looking across well how long

257
00:11:23,180 --> 00:11:21,060
both of our nation's have existed for

258
00:11:24,800 --> 00:11:23,190
the light to be able to travel to get to

259
00:11:27,770 --> 00:11:24,810
us if not longer

260
00:11:29,510 --> 00:11:27,780
so light takes time and we're always

261
00:11:31,670 --> 00:11:29,520
seeing things in the past and this is

262
00:11:34,490 --> 00:11:31,680
actually something you and I experiences

263
00:11:37,310 --> 00:11:34,500

we send our sound waves traveling at the

264
00:11:40,670 --> 00:11:37,320
speed of light as radio waves around the

265
00:11:42,620 --> 00:11:40,680
planet there's a delay from when I say

266
00:11:45,050 --> 00:11:42,630
something to when you hear it and from

267
00:11:48,680 --> 00:11:45,060
we speak and I'm able to hear your words

268
00:11:50,480 --> 00:11:48,690
and it's that constancy that well we can

269
00:11:52,310 --> 00:11:50,490
never see anything in the moment we're

270
00:11:54,860 --> 00:11:52,320
only ever seeing things in the past

271
00:11:57,290 --> 00:11:54,870
that's true I mean you're hearing me a

272
00:11:59,750 --> 00:11:57,300
fraction of a second after I speak and

273
00:12:02,120 --> 00:11:59,760
vice versa but when we say a fraction of

274
00:12:03,590 --> 00:12:02,130
a second it really is such a fraction of

275
00:12:06,470 --> 00:12:03,600
a second that it doesn't delay our

276
00:12:08,540 --> 00:12:06,480
conversation I seem to remember watching

277
00:12:10,070 --> 00:12:08,550
TV interviews when I was growing up and

278
00:12:11,510 --> 00:12:10,080
they say now we're hooking up on the

279
00:12:13,579 --> 00:12:11,520
satellite all the way to America and

280
00:12:15,440 --> 00:12:13,589
there was a noticeable delay it was

281
00:12:17,560 --> 00:12:15,450
interesting but it's getting shorter and

282
00:12:20,420 --> 00:12:17,570
shorter I guess that's just technology

283
00:12:22,910 --> 00:12:20,430
well it's not just technology it's also

284
00:12:25,730 --> 00:12:22,920
how we route things so it's it's where

285
00:12:28,820 --> 00:12:25,740
we put the technology as Eni speak we're

286
00:12:31,610 --> 00:12:28,830
actually using cables that go across the

287
00:12:33,530 --> 00:12:31,620
surface of the world once upon a time

288
00:12:35,660 --> 00:12:33,540

the the signals and this is what we

289
00:12:38,000 --> 00:12:35,670
still suffer with satellite trucks the

290
00:12:41,240 --> 00:12:38,010
the signals are going from the surface

291
00:12:44,900 --> 00:12:41,250
of the planet up to some communication

292
00:12:47,360 --> 00:12:44,910
satellite that is far far far away and

293
00:12:50,720 --> 00:12:47,370
we're getting half a second to a second

294
00:12:52,280 --> 00:12:50,730
of delay just in the travel time to get

295
00:12:55,070 --> 00:12:52,290
to these distant communication

296
00:12:58,030 --> 00:12:55,080
satellites it's really much faster to

297
00:13:00,350 --> 00:12:58,040
wrap a wire around the world

298
00:13:02,000 --> 00:13:00,360
it's a strange thought to think that

299
00:13:05,390 --> 00:13:02,010
what you're saying what I'm saying now

300
00:13:08,540 --> 00:13:05,400
crawling through cables physically

301
00:13:10,970 --> 00:13:08,550
through cables we're disturbing the fish

302
00:13:13,370 --> 00:13:10,980
we must be the sorry I'm sorry sorry to

303
00:13:16,250 --> 00:13:13,380
the fish but let's not talk about fish

304
00:13:18,920 --> 00:13:16,260
let's keep our eyes gazed up towards the

305
00:13:20,780 --> 00:13:18,930
heavens and I want to talk to you about

306
00:13:22,670 --> 00:13:20,790
a project I've just heard about which

307
00:13:26,060 --> 00:13:22,680
sounds very exciting and this is how

308
00:13:28,820 --> 00:13:26,070
every skeptic zone listener can come to

309
00:13:32,180 --> 00:13:28,830
your assistance here and this is to do

310
00:13:35,540 --> 00:13:32,190
with photographs taken by astronauts

311
00:13:41,000 --> 00:13:35,550
please tell us more it's true

312
00:13:44,120 --> 00:13:41,010
so at cosmic West org we have a variety

313
00:13:45,680 --> 00:13:44,130

of science projects that anyone out

314
00:13:48,980 --> 00:13:45,690
there with a computer and an internet

315
00:13:51,500 --> 00:13:48,990
connection can get involved in and and

316
00:13:53,960 --> 00:13:51,510
we do require you to use a computer so

317
00:13:56,269 --> 00:13:53,970
that you have big pixels in front of

318
00:13:59,240 --> 00:13:56,279
your eyeballs and can get highly

319
00:14:00,740 --> 00:13:59,250
accurate results and with some of our

320
00:14:03,769 --> 00:14:00,750
projects that I've talked about before

321
00:14:05,690 --> 00:14:03,779
we're mapping out other worlds well this

322
00:14:09,320 --> 00:14:05,700
time we're mapping out our own world our

323
00:14:13,400 --> 00:14:09,330
own planet Earth we've had astronauts

324
00:14:15,410 --> 00:14:13,410
from 18 different nations orbiting above

325
00:14:18,890 --> 00:14:15,420
us on the International Space Station

326
00:14:22,250 --> 00:14:18,900
and from their vantage point 250 miles

327
00:14:25,310 --> 00:14:22,260
up they have an amazing view of our

328
00:14:28,940 --> 00:14:25,320
planet they've been able to image

329
00:14:31,850 --> 00:14:28,950
everything from the wild flowers in the

330
00:14:34,430 --> 00:14:31,860
California desert finally blooming this

331
00:14:37,540 --> 00:14:34,440
year with all of the rainfall California

332
00:14:41,900 --> 00:14:37,550
gotten in the spring to seeing the

333
00:14:45,140 --> 00:14:41,910
varying AB and flow of material flying

334
00:14:48,680 --> 00:14:45,150
out of the Mississippi River when we get

335
00:14:51,160 --> 00:14:48,690
our springtime floods and seeing the

336
00:14:54,260 --> 00:14:51,170
changing desert in Saudi Arabia that

337
00:14:56,480 --> 00:14:54,270
sometimes the high desert will get snow

338
00:14:59,150 --> 00:14:56,490

and we have all these amazing things

339
00:15:02,090 --> 00:14:59,160
captured in photos and the astronauts

340
00:15:06,019 --> 00:15:02,100
who are amazing brilliant awesome human

341
00:15:07,850 --> 00:15:06,029
beings do not label their photos because

342
00:15:13,220 --> 00:15:07,860
I guess they've got other things on

343
00:15:17,510 --> 00:15:13,230
their mind it's true so we have 1.5

344
00:15:19,010 --> 00:15:17,520
million photos oh boy oh boy we we know

345
00:15:20,420 --> 00:15:19,020
where the space station was

346
00:15:22,550 --> 00:15:20,430
when the photos were taken so we know

347
00:15:23,210 --> 00:15:22,560
what is straight down from the camera

348
00:15:25,490 --> 00:15:23,220
yeah

349
00:15:28,340 --> 00:15:25,500
but the view is good from up there

350
00:15:31,190 --> 00:15:28,350
there's a whole lot planet they can see

351
00:15:33,830 --> 00:15:31,200
from up there so this is where we need

352
00:15:35,510 --> 00:15:33,840
everyone out there helping us label

353
00:15:38,230 --> 00:15:35,520
these photos so that they can be used

354
00:15:40,520 --> 00:15:38,240
for science so that they can be used for

355
00:15:43,520 --> 00:15:40,530
photojournalism and investigative

356
00:15:47,150 --> 00:15:43,530
reporting and school projects looking at

357
00:15:50,300 --> 00:15:47,160
city sprawl and lights at night and so

358
00:15:53,720 --> 00:15:50,310
many different things are possible with

359
00:15:56,930 --> 00:15:53,730
these photos if we can just get all of

360
00:16:00,050 --> 00:15:56,940
them labeled and and what's cool is I

361
00:16:04,340 --> 00:16:00,060
have learned that people who fly

362
00:16:07,130 --> 00:16:04,350
airplanes and do map things as a hobby

363
00:16:10,940 --> 00:16:07,140

are way better at this than I an

364
00:16:13,280 --> 00:16:10,950
astrophysicist will ever be well that

365
00:16:15,440 --> 00:16:13,290
doesn't surprise me necessarily I guess

366
00:16:17,240 --> 00:16:15,450
they're sort of used to it in a way but

367
00:16:21,590 --> 00:16:17,250
it sounds like something that everybody

368
00:16:24,020 --> 00:16:21,600
could get used to it's true and I didn't

369
00:16:27,230 --> 00:16:24,030
think it would would happen but the more

370
00:16:30,490 --> 00:16:27,240
I do this the better I get at it and

371
00:16:32,930 --> 00:16:30,500
people who start out from that

372
00:16:35,990 --> 00:16:32,940
familiarity of flying planes they'll get

373
00:16:39,230 --> 00:16:36,000
it much much faster but anyone out there

374
00:16:40,730 --> 00:16:39,240
no matter what they do as long as

375
00:16:43,940 --> 00:16:40,740
they're careful it's just this crazy

376
00:16:46,010 --> 00:16:43,950
game of Where's Waldo except well what I

377
00:16:50,540 --> 00:16:46,020
was playing earlier today was where is

378
00:16:54,800 --> 00:16:50,550
this lake in Chile and so far we've

379
00:16:59,450 --> 00:16:54,810
stumbled across images ranging from the

380
00:17:04,090 --> 00:16:59,460
the Straits of Gibraltar to Argentinian

381
00:17:08,930 --> 00:17:04,100
glaciers to Nantes France at night to

382
00:17:12,170 --> 00:17:08,940
farm fields in Virginia the whole world

383
00:17:15,860 --> 00:17:12,180
is captured in these photos and we just

384
00:17:18,590 --> 00:17:15,870
need everyone out there to help us find

385
00:17:20,570 --> 00:17:18,600
the place in the world these photos are

386
00:17:22,880 --> 00:17:20,580
depicting this sounds absolutely

387
00:17:24,500 --> 00:17:22,890
fascinating and I promise you as soon as

388
00:17:28,010 --> 00:17:24,510

we wrap this up I'm going to go straight

389
00:17:30,220 --> 00:17:28,020
on to Cosmo quest org and I will of

390
00:17:32,140 --> 00:17:30,230
course pay the

391
00:17:33,940 --> 00:17:32,150
killer interest and attention to the

392
00:17:37,180 --> 00:17:33,950
photographs from Australia which must be

393
00:17:38,740 --> 00:17:37,190
stunning they are but we don't know

394
00:17:40,810 --> 00:17:38,750
which ones are Australia until you

395
00:17:44,200 --> 00:17:40,820
identify them for us ah there's the

396
00:17:46,690 --> 00:17:44,210
trick now I truly understand that's

397
00:17:54,360 --> 00:17:46,700
fascinating it's almost like a cosmic

398
00:17:58,930 --> 00:17:54,370
jigsaw puzzle isn't it is so big and

399
00:18:01,659 --> 00:17:58,940
it's it really is like playing Where's

400
00:18:03,940 --> 00:18:01,669
Waldo except you're not always looking

401
00:18:08,730 --> 00:18:03,950
for the red and white striped hat in

402
00:18:11,590 --> 00:18:08,740
this dizzy field sometimes yeah it's

403
00:18:14,640 --> 00:18:11,600
it's hard but these images are so

404
00:18:17,289 --> 00:18:14,650
beautiful our planet is so beautiful and

405
00:18:19,299 --> 00:18:17,299
some of these images are actually the

406
00:18:22,419 --> 00:18:19,309
astronauts not looking down but looking

407
00:18:24,669 --> 00:18:22,429
out and so we found photos of comets

408
00:18:27,700 --> 00:18:24,679
photos of the large and small Magellanic

409
00:18:29,470 --> 00:18:27,710
Clouds there's so many different things

410
00:18:32,950 --> 00:18:29,480
that they've been able to see over the

411
00:18:34,780 --> 00:18:32,960
years and now we can see - that sounds

412
00:18:36,520 --> 00:18:34,790
absolutely beautiful again I will look

413
00:18:38,830 --> 00:18:36,530

as soon as we wrap this up it sounds

414
00:18:41,590 --> 00:18:38,840
fascinating so all the skeptics our

415
00:18:44,169 --> 00:18:41,600
listeners can pitch in and in and if

416
00:18:46,049 --> 00:18:44,179
people would only spend you know some

417
00:18:48,250 --> 00:18:46,059
little amount of time every week

418
00:18:50,080 --> 00:18:48,260
perusing these beautiful photographs

419
00:18:53,409 --> 00:18:50,090
they can all add to our scientific

420
00:18:56,980 --> 00:18:53,419
understanding that that is entirely true

421
00:18:58,990 --> 00:18:56,990
and our own planet in a lot of ways is

422
00:19:01,780 --> 00:18:59,000
the most important world we can try and

423
00:19:05,230 --> 00:19:01,790
understand and these photos get it

424
00:19:09,010 --> 00:19:05,240
everything from when - the flowers bloom

425
00:19:12,760 --> 00:19:09,020
- how do the tides affect where the

426
00:19:14,850 --> 00:19:12,770
reefs appear close to the surface Wow

427
00:19:16,930 --> 00:19:14,860
this is this is absolutely fascinating

428
00:19:19,840 --> 00:19:16,940
Pamela - you're wetting my appetite

429
00:19:22,630 --> 00:19:19,850
folks this is the the clue for you head

430
00:19:25,180 --> 00:19:22,640
for Cosmo quest org I shall link to that

431
00:19:27,400 --> 00:19:25,190
in the show notes now Pamela of course

432
00:19:29,740 --> 00:19:27,410
people will know you very well from

433
00:19:31,960 --> 00:19:29,750
astronomy cast the long-running the

434
00:19:35,200 --> 00:19:31,970
long-running podcast and I have been

435
00:19:38,169 --> 00:19:35,210
very proudly advertising astronomy cast

436
00:19:40,810 --> 00:19:38,179
from I think the first week or two of

437
00:19:44,350 --> 00:19:40,820
the skeptic zone podcast so or coming up

438
00:19:46,240 --> 00:19:44,360

for 10 years but sad oh it's very sad

439
00:19:48,549 --> 00:19:46,250
can't run the promo anymore because

440
00:19:51,940 --> 00:19:48,559
you've sort of changed your your job

441
00:19:54,340 --> 00:19:51,950
title I think I have and I'm going to

442
00:20:01,210 --> 00:19:54,350
record you a new promo tomorrow I

443
00:20:04,480 --> 00:20:01,220
promise in in January I switch jobs I am

444
00:20:06,640 --> 00:20:04,490
now the director of technology and

445
00:20:09,039 --> 00:20:06,650
citizen science for the Astronomical

446
00:20:11,169 --> 00:20:09,049
Society of the Pacific and it's

447
00:20:13,600 --> 00:20:11,179
important to remember here that this is

448
00:20:16,360 --> 00:20:13,610
an international organization so even

449
00:20:18,610 --> 00:20:16,370
though I live in the middle of the

450
00:20:20,260 --> 00:20:18,620
United States we're still a Pacific

451
00:20:22,659 --> 00:20:20,270
nation here in the United States just

452
00:20:26,310 --> 00:20:22,669
like you there in Australia are Pacific

453
00:20:29,169 --> 00:20:26,320
salutely yeah so we are here

454
00:20:32,799 --> 00:20:29,179
internationally working to engage people

455
00:20:35,110 --> 00:20:32,809
in learning and doing science and and

456
00:20:37,480 --> 00:20:35,120
this is a society that's been around for

457
00:20:40,020 --> 00:20:37,490
over a hundred years and found its

458
00:20:43,330 --> 00:20:40,030
origins in the solar eclipse where

459
00:20:45,940 --> 00:20:43,340
because it was the amateur astronomers

460
00:20:48,400 --> 00:20:45,950
who were first learning how to use

461
00:20:51,370 --> 00:20:48,410
photographic equipment and take Astro

462
00:20:54,909 --> 00:20:51,380
photographs of the eclipsing Sun they

463
00:20:58,180 --> 00:20:54,919

were the ones that captured those photos

464
00:21:01,510 --> 00:20:58,190
that were needed to understand a solar

465
00:21:04,570 --> 00:21:01,520
eclipse shortly after the technology

466
00:21:07,299 --> 00:21:04,580
came into existence so the entire

467
00:21:10,090 --> 00:21:07,309
organization started out of pro-am

468
00:21:11,620 --> 00:21:10,100
collaboration which fits for me because

469
00:21:14,620 --> 00:21:11,630
it's kind of what I do for a living

470
00:21:16,659 --> 00:21:14,630
that's again absolutely you do such

471
00:21:20,380 --> 00:21:16,669
interesting stuff and and quickly what's

472
00:21:24,909 --> 00:21:20,390
the the website it's it's Astro society

473
00:21:27,430 --> 00:21:24,919
dot o-r-g and and it's a society which

474
00:21:30,549 --> 00:21:27,440
means that anyone out there can join and

475
00:21:33,310 --> 00:21:30,559
be part of our educational mission and

476
00:21:35,500 --> 00:21:33,320
our scientific mission to advance our

477
00:21:37,330 --> 00:21:35,510
understanding of the universe that's

478
00:21:39,070 --> 00:21:37,340
what I like to hear I like to advance

479
00:21:41,440 --> 00:21:39,080
our understanding of the universe in any

480
00:21:44,740 --> 00:21:41,450
way we can and folks are linked to all

481
00:21:48,340 --> 00:21:44,750
those fascinating websites in this

482
00:21:49,720 --> 00:21:48,350
week's show notes and undoubtedly Pamela

483
00:21:51,520 --> 00:21:49,730
all our listeners won't be able to hear

484
00:21:54,120 --> 00:21:51,530
next week's show course I'll be so busy

485
00:21:57,180 --> 00:21:54,130
cataloging photographs

486
00:21:59,520 --> 00:21:57,190
you can listen to this show

487
00:22:02,850 --> 00:21:59,530
Wow you can log photographs this is the

488
00:22:05,880 --> 00:22:02,860

awesome use your use your brain to

489
00:22:08,280 --> 00:22:05,890
listen use your brain to find things but

490
00:22:10,620 --> 00:22:08,290
that acade eyes and ears separately

491
00:22:13,590 --> 00:22:10,630
Pamela gay dr. Pamela gay such a

492
00:22:15,180 --> 00:22:13,600
pleasure to talk with you again we must

493
00:22:17,070 --> 00:22:15,190
do this more regularly you're such a

494
00:22:19,380 --> 00:22:17,080
fascinating person to talk to I am

495
00:22:22,440 --> 00:22:19,390
envious about the wonderful things you

496
00:22:24,330 --> 00:22:22,450
get to see and you get to explore well

497
00:22:26,400 --> 00:22:24,340
thank you it's it's always a pleasure

498
00:22:28,260 --> 00:22:26,410
and we do need to do this more often

499
00:22:44,370 --> 00:22:28,270
thank you so much as always for having

500
00:22:47,400 --> 00:22:44,380
me on it's really a pleasure hi this is

501
00:22:49,290 --> 00:22:47,410
dr. Pamela Gay from astronomy cast each

502
00:22:51,030 --> 00:22:49,300
week Fraser Cain and I take our

503
00:22:53,220 --> 00:22:51,040
listeners on a fact-based journey

504
00:22:55,980 --> 00:22:53,230
through the cosmos with our weekly

505
00:22:58,740 --> 00:22:55,990
podcast we explain not just what we know

506
00:23:01,620 --> 00:22:58,750
but how we know what we know about this

507
00:23:04,080 --> 00:23:01,630
universe that we share check us out at

508
00:23:06,480 --> 00:23:04,090
astronomy cast calm and look for us in

509
00:23:09,190 --> 00:23:06,490
itunes google play and where ever you

510
00:23:12,740 --> 00:23:09,200
download podcasts see online

511
00:23:13,100 --> 00:23:12,750
[Music]

512
00:23:23,759 --> 00:23:13,110
[Applause]

513
00:23:26,440 --> 00:23:23,769

[Music]

514
00:23:28,960 --> 00:23:26,450
on Thursday the 5th of October I

515
00:23:31,839 --> 00:23:28,970
attended the annual choice magazines

516
00:23:34,419 --> 00:23:31,849
xiangqi Awards choice magazine is

517
00:23:36,700 --> 00:23:34,429
Australia's consumer magazine giving

518
00:23:38,830 --> 00:23:36,710
product reviews a good thing about

519
00:23:41,469 --> 00:23:38,840
choice magazine is that they are fully

520
00:23:43,810 --> 00:23:41,479
independent and from time to time I've

521
00:23:46,330 --> 00:23:43,820
been along to their offices of choice

522
00:23:48,960 --> 00:23:46,340
magazine - where I'll give them some

523
00:23:52,499 --> 00:23:48,970
tips on products that we consider to be

524
00:23:56,200 --> 00:23:52,509
shonky chunky is a great word it means

525
00:23:58,570 --> 00:23:56,210
dodgy unreliable not trustworthy doesn't

526
00:24:00,430 --> 00:23:58,580
work that sort of thing this year the

527
00:24:04,450 --> 00:24:00,440
choice magazine gave a shonky to an

528
00:24:08,379 --> 00:24:04,460
online booking system via gogo Westpac

529
00:24:10,539 --> 00:24:08,389
Bank for offering a savings programmed

530
00:24:15,339 --> 00:24:10,549
aimed at children who haven't even been

531
00:24:18,339 --> 00:24:15,349
born yet Samsung for their washer/dryer

532
00:24:21,279 --> 00:24:18,349
which uses an excessive amount of water

533
00:24:25,479 --> 00:24:21,289
and takes up to 6 hours to dry your

534
00:24:28,389 --> 00:24:25,489
clothes a vitamin chewable gummy for

535
00:24:31,060 --> 00:24:28,399
children which was full of sugar cat

536
00:24:33,219 --> 00:24:31,070
food Coles complete cuisine for cats

537
00:24:35,919 --> 00:24:33,229
which was shown to be poorly labeled and

538
00:24:38,349 --> 00:24:35,929

could actually harm your cat cuddly

539
00:24:40,769 --> 00:24:38,359
sensitive fabric softener which

540
00:24:44,379 --> 00:24:40,779
performed no better than water

541
00:24:47,440 --> 00:24:44,389
chunky air bags from Holden Toyota Lexus

542
00:24:50,830 --> 00:24:47,450
BMW and Mazda and that story is a

543
00:24:54,070 --> 00:24:50,840
scandal in itself but my favorite was

544
00:24:56,229 --> 00:24:54,080
the pain eraser and this was awarded a

545
00:24:59,529 --> 00:24:56,239
shonky for dubious pain relief claims

546
00:25:01,719 --> 00:24:59,539
ads for the pain eraser pen claimed it

547
00:25:04,719 --> 00:25:01,729
offers drug free pain relief through

548
00:25:08,369 --> 00:25:04,729
quote these signs of electro analgesia

549
00:25:11,139 --> 00:25:08,379
unquote if you call the 1-800 number

550
00:25:13,749 --> 00:25:11,149
advertise a quote trained consultant

551
00:25:15,580 --> 00:25:13,759
unquote we'll call you back to discuss

552
00:25:17,349 --> 00:25:15,590
the details of the product but not

553
00:25:19,419 --> 00:25:17,359
before they check to see if you'll be

554
00:25:22,149 --> 00:25:19,429
paying with Visa or MasterCard

555
00:25:24,310 --> 00:25:22,159
they promise that the pain eraser works

556
00:25:27,190 --> 00:25:24,320
on everyone except for those with

557
00:25:29,529 --> 00:25:27,200
pacemakers or who are pregnant for

558
00:25:31,779 --> 00:25:29,539
anything from two hours to two days

559
00:25:34,180 --> 00:25:31,789
after you discharge an electrical

560
00:25:34,990 --> 00:25:34,190
current into your skin up to 40 times

561
00:25:37,270 --> 00:25:35,000
now

562
00:25:39,760 --> 00:25:37,280
device is sort of like an overgrown pen

563
00:25:42,460 --> 00:25:39,770

big fat light think of the doctor who's

564
00:25:43,690 --> 00:25:42,470
a sonic screwdriver you put it on your

565
00:25:46,930 --> 00:25:43,700
skin and it gives you a short little

566
00:25:49,690 --> 00:25:46,940
zaps of tiny amounts of electricity I

567
00:25:51,520 --> 00:25:49,700
suppose the pain eraser website claims

568
00:25:55,240 --> 00:25:51,530
the pen works by exerting pressure on

569
00:25:56,410 --> 00:25:55,250
the quartz crystal which produces a tiny

570
00:25:58,390 --> 00:25:56,420
electric charge

571
00:26:00,330 --> 00:25:58,400
apparently this stimulates the body's

572
00:26:03,670 --> 00:26:00,340
and dolphins to act as a natural

573
00:26:05,980 --> 00:26:03,680
painkiller the item goes on our partners

574
00:26:07,990 --> 00:26:05,990
at consumer NZD consumer New Zealand

575
00:26:10,380 --> 00:26:08,000
tested the pain eraser and found it

576
00:26:13,540 --> 00:26:10,390
delivers less energy than a TENS

577
00:26:15,340 --> 00:26:13,550
treatment session dr. Brad McCoy and

578
00:26:18,610 --> 00:26:15,350
he's with the Australian skeptics a

579
00:26:21,040 --> 00:26:18,620
Sydney based GP says the pain eraser is

580
00:26:23,470 --> 00:26:21,050
probably good for lighting your stovetop

581
00:26:26,800 --> 00:26:23,480
but unlikely to be beneficial for paint

582
00:26:28,570 --> 00:26:26,810
coat any subjective decrease in pain is

583
00:26:31,330 --> 00:26:28,580
more likely to occur from sheer boredom

584
00:26:33,850 --> 00:26:31,340
after clicking the device 30 to 40 times

585
00:26:39,700 --> 00:26:33,860
rather than the device itself end quote

586
00:26:41,860 --> 00:26:39,710
he says I caught up with Kate Brown from

587
00:26:44,350 --> 00:26:41,870
choice magazine just after the awards

588
00:26:45,910 --> 00:26:44,360

and also to some other staff from choice

589
00:26:49,300 --> 00:26:45,920
who were on hand to dress up in all

590
00:26:50,800 --> 00:26:49,310
sorts of weird costumes I'm with Kate

591
00:26:53,530 --> 00:26:50,810
brown Kate

592
00:26:56,470 --> 00:26:53,540
great job hosting partly hosting the

593
00:26:58,830 --> 00:26:56,480
sake serve today a quick word for the

594
00:27:00,700 --> 00:26:58,840
skipping zone podcast listeners the

595
00:27:03,310 --> 00:27:00,710
interesting one from my point of view

596
00:27:06,640 --> 00:27:03,320
they're all great being a sceptical

597
00:27:13,630 --> 00:27:06,650
point of view the pain eraser that's my

598
00:27:15,820 --> 00:27:13,640
favorite to be honest I've found friends

599
00:27:18,220 --> 00:27:15,830
in New Zealand because I watch a lot

600
00:27:20,020 --> 00:27:18,230
more JSON TV than we do because it's

601
00:27:22,630 --> 00:27:20,030
heavily advertising the day funnily

602
00:27:25,150 --> 00:27:22,640
enough when old people are at home ooh

603
00:27:27,100 --> 00:27:25,160
suffer from chronic pain when we looked

604
00:27:30,280 --> 00:27:27,110
at it and did some testing it really is

605
00:27:31,990 --> 00:27:30,290
nothing more than a peas are lighter

606
00:27:34,240 --> 00:27:32,000
which you might be familiar with if

607
00:27:36,850 --> 00:27:34,250
you've ever let your stovetop or your

608
00:27:38,980 --> 00:27:36,860
barbecue it just creates a little spark

609
00:27:42,130 --> 00:27:38,990
and you can buy them about eight bucks

610
00:27:45,040 --> 00:27:42,140
but the painter is the painter is is one

611
00:27:47,320 --> 00:27:45,050
hundred and sixty dollars no proof that

612
00:27:50,290 --> 00:27:47,330
it works when I spoke to them on the

613
00:27:53,680 --> 00:27:50,300

phone when we purchase one they told me

614
00:27:56,890 --> 00:27:53,690
it releases endorphins I can't say it

615
00:28:00,400 --> 00:27:56,900
did that for me it was a bit like being

616
00:28:02,650 --> 00:28:00,410
stabbed with a pen possibly you could

617
00:28:03,880 --> 00:28:02,660
bang your head on the wall to you know

618
00:28:06,730 --> 00:28:03,890
take your mind if your chronic knee pain

619
00:28:08,710 --> 00:28:06,740
or your back pain but for me was just a

620
00:28:10,510 --> 00:28:08,720
blatant ripoff it's a piece of plastic

621
00:28:11,950 --> 00:28:10,520
that you know you could use to light

622
00:28:14,110 --> 00:28:11,960
your barbecue probably and that's about

623
00:28:15,850 --> 00:28:14,120
it I think you could almost start to put

624
00:28:18,520 --> 00:28:15,860
together a book one day of all the songs

625
00:28:20,590 --> 00:28:18,530
given to medical devices yeah look you

626
00:28:22,750 --> 00:28:20,600
know there's so many it almost felt

627
00:28:24,970 --> 00:28:22,760
unfair to give it to the pain arrays

628
00:28:26,800 --> 00:28:24,980
because we do see so many you know

629
00:28:28,510 --> 00:28:26,810
really is very predatory you know like

630
00:28:30,550 --> 00:28:28,520
chronic pain isn't a laughing matter

631
00:28:32,560 --> 00:28:30,560
people are desperate they're gonna try

632
00:28:35,650 --> 00:28:32,570
anything and it's just really really

633
00:28:37,600 --> 00:28:35,660
unfair Thank You Kate thank you thank

634
00:28:39,310 --> 00:28:37,610
you a couple of people here with chunky

635
00:28:41,170 --> 00:28:39,320
t-shirts on but they look very hard this

636
00:28:44,500 --> 00:28:41,180
is for the podcast audience we have a

637
00:28:46,690 --> 00:28:44,510
giant strawberry hello hello and heavily

638
00:28:49,690 --> 00:28:46,700

heavily pregnant woman I think it might

639
00:28:50,980 --> 00:28:49,700
be eight children but oddly enough on

640
00:28:52,720 --> 00:28:50,990
stage a few minutes ago you weren't

641
00:28:55,630 --> 00:28:52,730
pregnant well I know it's one of life's

642
00:28:57,370 --> 00:28:55,640
miracles now you were here to help

643
00:29:00,040 --> 00:28:57,380
demonstrate the shonky Bank product

644
00:29:02,740 --> 00:29:00,050
aimed at expected parents that's right

645
00:29:04,720 --> 00:29:02,750
so you wanted to get $200 if you keep

646
00:29:07,300 --> 00:29:04,730
the account for 16 years it's pretty

647
00:29:09,400 --> 00:29:07,310
dodgy it's pretty junkeum and your dress

648
00:29:11,200 --> 00:29:09,410
is a strawberry for vitamins I think

649
00:29:12,940 --> 00:29:11,210
yeah that's right vitae gummies are

650
00:29:14,710 --> 00:29:12,950
essentially lollies in a packed with

651
00:29:17,710 --> 00:29:14,720
sugar and claimed to be good for teeth

652
00:29:18,570 --> 00:29:17,720
so a pretty dodgy product especially for

653
00:29:20,670 --> 00:29:18,580
kids

654
00:29:24,500 --> 00:29:20,680
well congratulations on another fine

655
00:29:31,230 --> 00:29:24,510
chunky warden you're both look yes

656
00:29:32,940 --> 00:29:31,240
interesting thank you to choice magazine

657
00:29:35,340 --> 00:29:32,950
for inviting me along to cover the Xiang

658
00:29:39,270 --> 00:29:35,350
Keys this year I wonder who will win

659
00:29:43,380 --> 00:29:39,280
next year for more information visit

660
00:29:43,390 --> 00:29:59,670
[Music]

661
00:30:03,870 --> 00:30:02,910
and intelligent decisions operated by

662
00:30:06,480 --> 00:30:03,880
Stephan Barratt

663
00:30:08,820 --> 00:30:06,490

MD quack watch is now an international

664
00:30:11,070 --> 00:30:08,830
network of people who concerned about

665
00:30:12,720 --> 00:30:11,080
health-related frauds myths fads

666
00:30:16,020 --> 00:30:12,730
fallacies and misconduct

667
00:30:18,000 --> 00:30:16,030
its primary focus is on Wacker e related

668
00:30:20,310 --> 00:30:18,010
information that is difficult or

669
00:30:23,700 --> 00:30:20,320
impossible to get elsewhere articles on

670
00:30:27,360 --> 00:30:23,710
quackery include quackery how should it

671
00:30:30,900 --> 00:30:27,370
be defined how it sells 26 ways to spot

672
00:30:33,420 --> 00:30:30,910
it how it comes cancer patients 7

673
00:30:35,910 --> 00:30:33,430
warning signs for bogus science why

674
00:30:38,880 --> 00:30:35,920
health professionals become quacks and

675
00:30:41,510 --> 00:30:38,890
many more including in-depth looks at

676
00:30:42,870 --> 00:30:41,520
the acupuncture chiropractic homeopathy

677
00:30:45,650 --> 00:30:42,880
naturopathy

678
00:30:48,440 --> 00:30:45,660
and much more visit

679
00:30:59,040 --> 00:30:48,450
www.gfi.com/webmonitor

680
00:31:07,650 --> 00:31:03,910
here's Maynard spooky action at a

681
00:31:20,169 --> 00:31:17,560
[Music]

682
00:31:22,450 --> 00:31:20,179
welcome to astray Museum in the theater

683
00:31:23,919 --> 00:31:22,460
we're only shortly a few months ago or a

684
00:31:26,289 --> 00:31:23,929
month or two ago we were doing The

685
00:31:28,840 --> 00:31:26,299
Skeptical investigators but right now we

686
00:31:31,479 --> 00:31:28,850
here without in Ferguson and friends Tim

687
00:31:33,580 --> 00:31:31,489
Ferguson how are you in this now empty

688
00:31:36,369 --> 00:31:33,590

theater dinosaurs dinosaurs dinosaurs

689
00:31:38,879 --> 00:31:36,379
may not we've got dinosaurs rights

690
00:31:41,289 --> 00:31:38,889
paleontology or get out of the house

691
00:31:44,279 --> 00:31:41,299
absolutely and everybody likes dinosaurs

692
00:31:47,769 --> 00:31:44,289
including our target audience which is

693
00:31:50,099 --> 00:31:47,779
everybody with Billy and the dinosaurs

694
00:31:53,139 --> 00:31:50,109
which is like it's an orchestral

695
00:31:55,690 --> 00:31:53,149
storytelling piece a lot like Peter and

696
00:31:58,599 --> 00:31:55,700
the wolf except with the female

697
00:32:00,669 --> 00:31:58,609
protagonist of young Billy little

698
00:32:03,519 --> 00:32:00,679
troublemaking Billy who finds a whole

699
00:32:05,409 --> 00:32:03,529
bunch of dinosaurs Australian dinosaurs

700
00:32:07,210 --> 00:32:05,419
that's right now my favorite version of

701
00:32:09,399 --> 00:32:07,220
Peter and the wolf is the one with Wendy

702
00:32:11,409 --> 00:32:09,409
Carlos and Weird Al Yankovic which is

703
00:32:12,789 --> 00:32:11,419
great do you actually do any playing

704
00:32:15,669 --> 00:32:12,799
yourself and this to actually get out

705
00:32:18,789 --> 00:32:15,679
any instrumentals spectacular yourself

706
00:32:21,820 --> 00:32:18,799
I play the spoons oh good and I look

707
00:32:23,560 --> 00:32:21,830
charming and now you've written this and

708
00:32:25,869 --> 00:32:23,570
you've originally designed it for a full

709
00:32:28,180 --> 00:32:25,879
orchestra what are you doing with

710
00:32:30,729 --> 00:32:28,190
instrumentation today well we just have

711
00:32:32,499 --> 00:32:30,739
the electronic recording so all the

712
00:32:34,499 --> 00:32:32,509
instruments sound like the instruments

713
00:32:38,409 --> 00:32:34,509

because they're taken from instruments

714
00:32:40,749 --> 00:32:38,419
so we can have the story being told by

715
00:32:42,759 --> 00:32:40,759
me and every once in a while we stop

716
00:32:45,129 --> 00:32:42,769
when we listen to whatever motif

717
00:32:47,289 --> 00:32:45,139
whatever piece of music is appropriate

718
00:32:49,539 --> 00:32:47,299
to whichever dinosaur we've just

719
00:32:51,940 --> 00:32:49,549
introduced now how scientifically

720
00:32:53,940 --> 00:32:51,950
accurate is what you're about to narrate

721
00:32:56,560 --> 00:32:53,950
or is it just like the movie Inception

722
00:32:58,599 --> 00:32:56,570
it's totally scientifically accurate

723
00:33:01,289 --> 00:32:58,609
we've had it checked and then

724
00:33:04,419 --> 00:33:01,299
double-checked by the Australian Museum

725
00:33:07,810 --> 00:33:04,429
paleontologists they've gone through it

726
00:33:09,460 --> 00:33:07,820
with a fine toothed dinosaur and so well

727
00:33:11,680 --> 00:33:09,470
the minimal how wrong were you

728
00:33:14,529 --> 00:33:11,690
originally I mean like the one you had a

729
00:33:17,859 --> 00:33:14,539
- hand in it they went no no no no yeah

730
00:33:20,499 --> 00:33:17,869
we had but it's a bald - down it's got

731
00:33:23,609 --> 00:33:20,509
like it lizard skin but they said nope

732
00:33:26,470 --> 00:33:23,619
technically they said that wasn't around

733
00:33:28,659 --> 00:33:26,480
so yeah we made a few errors just in

734
00:33:30,200 --> 00:33:28,669
terms of timelines but you know there

735
00:33:32,630 --> 00:33:30,210
are so many millions of years

736
00:33:33,980 --> 00:33:32,640
who's counting and how the kids reacted

737
00:33:35,780 --> 00:33:33,990
to it because you've run it as a test

738
00:33:38,090 --> 00:33:35,790

audience a few times you've done one or

739
00:33:40,820 --> 00:33:38,100
two shows here has it interacting to it

740
00:33:44,180 --> 00:33:40,830
well you'll hear today that they do

741
00:33:45,770 --> 00:33:44,190
everything from laughing - screaming you

742
00:33:48,410 --> 00:33:45,780
know when they're asked to scream like

743
00:33:50,020 --> 00:33:48,420
Billy does when she meets the Austral

744
00:33:54,140 --> 00:33:50,030
over Natal which was basically

745
00:33:56,030 --> 00:33:54,150
Australia's equivalent of a t-rex and so

746
00:33:58,670 --> 00:33:56,040
I say you know everybody scream and it's

747
00:34:01,100 --> 00:33:58,680
one thing kids are happy to do at the

748
00:34:03,830 --> 00:34:01,110
drop of a hat is you stop them screaming

749
00:34:07,160 --> 00:34:03,840
well that takes a little bit of

750
00:34:11,780 --> 00:34:07,170
convincing shushing and we do turn on

751
00:34:13,400 --> 00:34:11,790
the fire hoses from above can you see

752
00:34:15,170 --> 00:34:13,410
this app being performed on a big stage

753
00:34:17,360 --> 00:34:15,180
with a full orchestra at some stage oh

754
00:34:19,670 --> 00:34:17,370
it's going to happen in Canberra we've

755
00:34:23,300 --> 00:34:19,680
got the Canberra Youth Orchestra and

756
00:34:25,490 --> 00:34:23,310
France who'll be performing yeah with

757
00:34:27,770 --> 00:34:25,500
the whole full orchestra also with an

758
00:34:30,140 --> 00:34:27,780
all abilities orchestra playing along

759
00:34:34,130 --> 00:34:30,150
with them so people with all sorts of

760
00:34:36,800 --> 00:34:34,140
physical or intellectual disabilities

761
00:34:41,860 --> 00:34:36,810
jumping on stage playing all all the

762
00:34:46,880 --> 00:34:41,870
instruments it's very important to the

763
00:34:50,270 --> 00:34:46,890

the other creators and myself that we

764
00:34:52,670 --> 00:34:50,280
get people with disabilities involved in

765
00:34:55,370 --> 00:34:52,680
this whole thing mainly because you know

766
00:34:57,440 --> 00:34:55,380
it's a giant market of people with

767
00:34:59,960 --> 00:34:57,450
disabilities who pay to come and see

768
00:35:02,510 --> 00:34:59,970
this thing I do not understand why

769
00:35:04,280 --> 00:35:02,520
producers haven't worked this out yet

770
00:35:06,080 --> 00:35:04,290
yeah of course with the Doug Anthony

771
00:35:08,030 --> 00:35:06,090
all-stars that's one set of skills

772
00:35:10,040 --> 00:35:08,040
you've written books you do comedy

773
00:35:12,410 --> 00:35:10,050
workshops what do you have to bring to

774
00:35:14,120 --> 00:35:12,420
writing for a group of children in a

775
00:35:16,730 --> 00:35:14,130
live environment that you haven't had to

776
00:35:19,820 --> 00:35:16,740
do before well it's much the same in

777
00:35:21,020 --> 00:35:19,830
fact it's all the same kind of tricks

778
00:35:24,710 --> 00:35:21,030
you know you've got to keep people's

779
00:35:27,710 --> 00:35:24,720
attention in a comedy show you can't say

780
00:35:29,030 --> 00:35:27,720
okay here's 90 seconds where there's not

781
00:35:32,150 --> 00:35:29,040
going to be anything funny but some

782
00:35:35,480 --> 00:35:32,160
really good messages a live comedy

783
00:35:37,820 --> 00:35:35,490
audiences attention span in fact is even

784
00:35:40,780 --> 00:35:37,830
shorter than that of children because a

785
00:35:43,730 --> 00:35:40,790
live comedy audience is probably drunk

786
00:35:44,089 --> 00:35:43,740
and and what feedback have you got from

787
00:35:45,620 --> 00:35:44,099
the

788
00:35:48,589 --> 00:35:45,630

that you've been able to use when oh

789
00:35:50,329 --> 00:35:48,599
yeah I should do that one kid said more

790
00:35:52,880 --> 00:35:50,339
dinosaurs it's like where you go get

791
00:35:55,549 --> 00:35:52,890
more dinosaurs that's what I said you

792
00:35:58,819 --> 00:35:55,559
got create more Australian dinosaurs

793
00:36:00,650 --> 00:35:58,829
there's a limited number it became quite

794
00:36:02,239 --> 00:36:00,660
a heated argument okay

795
00:36:04,009 --> 00:36:02,249
well we'll just sit back and we'll see

796
00:36:06,620 --> 00:36:04,019
how the kids enjoy it do you fear the

797
00:36:09,499 --> 00:36:06,630
children or fear their parents more no

798
00:36:11,779 --> 00:36:09,509
we don't fear anybody today I'll by the

799
00:36:14,930 --> 00:36:11,789
way I should say in the show today we

800
00:36:16,999 --> 00:36:14,940
have Jeff Willis who is the composer of

801
00:36:19,400 --> 00:36:17,009
the music for billion the dinosaurs and

802
00:36:22,789 --> 00:36:19,410
his brother David Willis who is the

803
00:36:25,160 --> 00:36:22,799
creator of our education package for

804
00:36:28,130 --> 00:36:25,170
schools or you know any group that wants

805
00:36:30,289 --> 00:36:28,140
to put the piece on there are identical

806
00:36:31,519 --> 00:36:30,299
twins so I'm never quite sure which one

807
00:36:33,890 --> 00:36:31,529
I'm talking to but it doesn't matter

808
00:36:37,009 --> 00:36:33,900
because they think with the same hive

809
00:36:39,079 --> 00:36:37,019
brain it's like being in Star Trek yeah

810
00:36:42,200 --> 00:36:39,089
I just think of them as those guys from

811
00:36:44,299 --> 00:36:42,210
Terminator yeah yeah yeah what was those

812
00:36:46,910 --> 00:36:44,309
people called the blerg you know they

813
00:36:49,099 --> 00:36:46,920

were they were unstoppable who were they

814
00:36:52,729 --> 00:36:49,109
there were arrabal yeah yeah the Borg

815
00:36:55,789 --> 00:36:52,739
I'll prefer the bloke I think the big

816
00:36:58,130 --> 00:36:55,799
sort of describes their fashion choices

817
00:37:01,999 --> 00:36:58,140
better but yeah it's like hanging around

818
00:37:03,739 --> 00:37:02,009
the bog and of course Tim's just the

819
00:37:05,239 --> 00:37:03,749
attractive pretty face of the whole

820
00:37:06,769 --> 00:37:05,249
Billy and the dinosaurs thing we have

821
00:37:09,289 --> 00:37:06,779
the two guys that make the whole thing

822
00:37:12,319 --> 00:37:09,299
go who've we got here I'm David Willis

823
00:37:14,120 --> 00:37:12,329
and I'm Jeff Willis and Jeff you're the

824
00:37:16,039 --> 00:37:14,130
musical Lily audiovisuals which me too

825
00:37:18,079 --> 00:37:16,049
you know I'm the composer of building

826
00:37:20,809 --> 00:37:18,089
the dinosaurs yeah we got together with

827
00:37:23,690 --> 00:37:20,819
Tim Ferguson five and a half years ago

828
00:37:26,239 --> 00:37:23,700
and we decided to write about something

829
00:37:28,339 --> 00:37:26,249
that's exciting for kids and we thought

830
00:37:30,499 --> 00:37:28,349
of a number of different topics but

831
00:37:32,029 --> 00:37:30,509
eventually came up with Dinosaurs

832
00:37:33,709 --> 00:37:32,039
yeah and now have you felt about how

833
00:37:34,609 --> 00:37:33,719
it's gone so far this has been an

834
00:37:36,709 --> 00:37:34,619
amazing week

835
00:37:39,200 --> 00:37:36,719
everybody's reacted well we've got kids

836
00:37:42,109 --> 00:37:39,210
who were two years old right up to a 12

837
00:37:44,450 --> 00:37:42,119
or 13 and of course the adults right up

838
00:37:47,390 --> 00:37:44,460

to whatever age they've absolutely

839
00:37:48,709 --> 00:37:47,400
enjoyed it they've loved it and have you

840
00:37:51,170 --> 00:37:48,719
found what have you needed ear plugs for

841
00:37:51,709 --> 00:37:51,180
the kids screaming it now with where I'm

842
00:37:53,479 --> 00:37:51,719
a teacher

843
00:37:54,019 --> 00:37:53,489
we're both we're both teachers when used

844
00:37:56,569 --> 00:37:54,029
to us

845
00:37:58,819 --> 00:37:56,579
okay absolutely and I'll tell you what

846
00:37:59,749 --> 00:37:58,829
though we the first show we did this

847
00:38:01,699 --> 00:37:59,759
week

848
00:38:03,019 --> 00:38:01,709
it wasn't the kids that were worried

849
00:38:06,229 --> 00:38:03,029
about there was one parent in the front

850
00:38:09,319 --> 00:38:06,239
row if there's a lovely happy ending and

851
00:38:11,599 --> 00:38:09,329
one of the parents had went back and she

852
00:38:13,159 --> 00:38:11,609
started bawling her eyes out Wow

853
00:38:16,249 --> 00:38:13,169
so there's something about that end

854
00:38:24,949 --> 00:38:16,259
that's wonderful the moral of the story

855
00:38:26,299 --> 00:38:24,959
I think all the show was terrible have a

856
00:38:27,439 --> 00:38:26,309
good show today now how many people were

857
00:38:29,749 --> 00:38:27,449
going to have any how many kids in

858
00:38:32,569 --> 00:38:29,759
parents it's about 120 I think I think

859
00:38:35,059 --> 00:38:32,579
it'sit's about 120 and that will mean if

860
00:38:37,939 --> 00:38:35,069
we'll have a sellout show today in the

861
00:38:39,229 --> 00:38:37,949
last two days total sellout cool okay

862
00:38:41,250 --> 00:38:39,239
well I look forward to hearing what's

863
00:38:51,520 --> 00:38:41,260

like thanks man out thanks man

864
00:38:57,559 --> 00:38:55,549
Parvati great to see you yes to value

865
00:39:03,940 --> 00:38:57,569
about dinosaurs they want to hear about

866
00:39:06,670 --> 00:39:03,950
the dog saw Billy bass the dinosaurs yes

867
00:39:08,569 --> 00:39:06,680
okay well we're going to tell the story

868
00:39:11,180 --> 00:39:08,579
which is called

869
00:39:13,400 --> 00:39:11,190
building at the dinosaurs and I'll tell

870
00:39:17,180 --> 00:39:13,410
the story and if you can hear the music

871
00:39:19,880 --> 00:39:17,190
and you'll see pictures and the risk is

872
00:39:28,300 --> 00:39:19,890
in your imagination all the lies the

873
00:39:28,310 --> 00:39:40,610
[Applause]

874
00:39:50,950 --> 00:39:47,210
[Music]

875
00:39:54,260 --> 00:39:51,030
[Applause]

876
00:39:58,550 --> 00:39:54,270
[Music]

877
00:40:02,070 --> 00:39:58,560
[Applause]

878
00:40:08,970 --> 00:40:02,080
[Music]

879
00:40:12,260 --> 00:40:08,980
[Applause]

880
00:40:16,920 --> 00:40:14,640
tarah who'd you bring along to the show

881
00:40:19,230 --> 00:40:16,930
my daughter Amelia Amelia how are ya

882
00:40:22,440 --> 00:40:19,240
good did you have a favourite bit of the

883
00:40:29,280 --> 00:40:22,450
show what bit was that did you enjoy

884
00:40:30,420 --> 00:40:29,290
screaming okay yeah well did you think

885
00:40:32,070 --> 00:40:30,430
she enjoyed the show she absolutely

886
00:40:34,890 --> 00:40:32,080
loved it was great very interactive

887
00:40:36,300 --> 00:40:34,900
which is good for that age did you do a

888
00:40:38,430 --> 00:40:36,310

bit of screaming and running as well for

889
00:40:40,260 --> 00:40:38,440
screaming and running yeah okay this

890
00:40:42,300 --> 00:40:40,270
gives parents an excuse to act up -

891
00:40:43,740 --> 00:40:42,310
exactly yeah there's lots of fun really

892
00:40:49,740 --> 00:40:43,750
going there beautiful we love dinosaurs

893
00:40:51,690 --> 00:40:49,750
in our house who doesn't exactly and a

894
00:40:53,310 --> 00:40:51,700
quick wrap-up there Tim so how was this

895
00:40:54,990 --> 00:40:53,320
show you've done four in a row here at

896
00:40:56,339 --> 00:40:55,000
the Australian Museum you've given them

897
00:40:57,510 --> 00:40:56,349
science you've given them screaming

898
00:40:59,820 --> 00:40:57,520
you'll be giving them running you've

899
00:41:02,910 --> 00:40:59,830
given them nightmares oh it's been great

900
00:41:05,280 --> 00:41:02,920
fun I think the kids all had a good time

901
00:41:07,890 --> 00:41:05,290
we had a dinosaur turned up and that was

902
00:41:09,810 --> 00:41:07,900
very exciting and it's great to get some

903
00:41:11,490 --> 00:41:09,820
music out there for the young audience

904
00:41:13,530 --> 00:41:11,500
so you must be looking forward to doing

905
00:41:15,270 --> 00:41:13,540
the full show in Canberra them oh yeah

906
00:41:17,370 --> 00:41:15,280
camera is gonna be huge will have a full

907
00:41:21,420 --> 00:41:17,380
symphony orchestra and all abilities

908
00:41:24,200 --> 00:41:21,430
orchestra and we'll have bits of

909
00:41:26,190 --> 00:41:24,210
dinosaurs and hopefully you know real

910
00:41:28,650 --> 00:41:26,200
dinosaurs will actually you know

911
00:41:30,390 --> 00:41:28,660
unemployed NIDA graduates dressed as

912
00:41:41,690 --> 00:41:30,400
dinosaurs

913
00:41:41,700 --> 00:41:53,050

[Music]

914
00:41:57,230 --> 00:41:55,640
today this is dr. Karl Karl Chris was he

915
00:41:59,510 --> 00:41:57,240
proud to be skeptic and you can find out

916
00:42:15,020 --> 00:41:59,520
more about me at dr. Karl calm and get

917
00:42:17,810 --> 00:42:15,030
lots of free stuff there as well let's

918
00:42:25,640 --> 00:42:17,820
all take this with a grain of salt is

919
00:42:29,210 --> 00:42:25,650
around second massing a Polydor oh very

920
00:42:30,859 --> 00:42:29,220
nice to meet you in in Breslau the

921
00:42:33,200 --> 00:42:30,869
conference has just ended what's your

922
00:42:35,450 --> 00:42:33,210
impression so what's very interesting

923
00:42:37,480 --> 00:42:35,460
and there were many interesting speakers

924
00:42:41,300 --> 00:42:37,490
and as well as always it's always a

925
00:42:44,710 --> 00:42:41,310
pleasure to be around people that have

926
00:42:48,890 --> 00:42:44,720
the same interests and same passions and

927
00:42:53,349 --> 00:42:48,900
and can share ideas and strategies on

928
00:42:55,340 --> 00:42:53,359
how to address the irrational and

929
00:42:59,270 --> 00:42:55,350
superstitions to the science so it's

930
00:43:02,599 --> 00:42:59,280
always a pleasure you are the president

931
00:43:04,940 --> 00:43:02,609
of the hexagon yeah the executive

932
00:43:07,400 --> 00:43:04,950
director executive director chica and

933
00:43:09,320 --> 00:43:07,410
chica has been so it's always Italian

934
00:43:10,880 --> 00:43:09,330
schedules and you've been around for

935
00:43:13,010 --> 00:43:10,890
quite a while quite a while

936
00:43:16,250 --> 00:43:13,020
it's almost 30 years in a couple of

937
00:43:20,090 --> 00:43:16,260
years it's our 30th anniversary and can

938
00:43:24,710 --> 00:43:20,100

you tell us a bit about me I was born in

939
00:43:27,710 --> 00:43:24,720
1989 from an idea by an Italian science

940
00:43:29,359 --> 00:43:27,720
journal is peer Angela he's very famous

941
00:43:32,240 --> 00:43:29,369
in Italy cannot walk in the street

942
00:43:37,490 --> 00:43:32,250
without people stopping him and really

943
00:43:41,599 --> 00:43:37,500
forming a crowd so he since he is so

944
00:43:43,849 --> 00:43:41,609
popular he was able to gather all big

945
00:43:46,280 --> 00:43:43,859
names in science in Italy and culture

946
00:43:48,800 --> 00:43:46,290
including Umberto Eco and Nobel Prize

947
00:43:51,740 --> 00:43:48,810
winners who were supporters of this idea

948
00:43:53,120 --> 00:43:51,750
of forming a committee to investigate at

949
00:43:56,790 --> 00:43:53,130
the time

950
00:44:00,240 --> 00:43:56,800
paranormal claims of course during these

951
00:44:03,390 --> 00:44:00,250
30 years the name has changed the last P

952
00:44:05,370 --> 00:44:03,400
of Chicopee is not longer paranormal but

953
00:44:07,730 --> 00:44:05,380
it's super science because the

954
00:44:09,990 --> 00:44:07,740
paranormal even though it's still around

955
00:44:15,300 --> 00:44:10,000
it's always less of an interest

956
00:44:18,780 --> 00:44:15,310
absolutely this this group of people has

957
00:44:22,950 --> 00:44:18,790
grown and above all what has grown is

958
00:44:26,250 --> 00:44:22,960
the interest in in our work from the

959
00:44:30,360 --> 00:44:26,260
media and from the public who've always

960
00:44:33,780 --> 00:44:30,370
been able in a way or another to be in

961
00:44:37,920 --> 00:44:33,790
the news so to keep the interest and so

962
00:44:39,450 --> 00:44:37,930
we have many activities going on almost

963
00:44:43,080 --> 00:44:39,460

every moment because we have local

964
00:44:46,230 --> 00:44:43,090
groups all over Italy that are lectures

965
00:44:50,100 --> 00:44:46,240
and meetings and we always have some

966
00:44:53,580 --> 00:44:50,110
activities going we test claims in in

967
00:44:57,630 --> 00:44:53,590
laboratory or whatever it is needed so

968
00:44:59,670 --> 00:44:57,640
we try to be as diverse as possible with

969
00:45:02,520 --> 00:44:59,680
the experts in many fields and can be

970
00:45:05,400 --> 00:45:02,530
contacted and and involved in an

971
00:45:07,230 --> 00:45:05,410
investigation or whatever but our main

972
00:45:09,180 --> 00:45:07,240
goal and now we have started a

973
00:45:11,520 --> 00:45:09,190
collaboration with Ministry of Culture

974
00:45:14,910 --> 00:45:11,530
and education in Italy where we are

975
00:45:20,280 --> 00:45:14,920
going to be able to help teachers and

976
00:45:25,680 --> 00:45:20,290
school have a set of instruments in

977
00:45:28,680 --> 00:45:25,690
order to teach kids how to approach to

978
00:45:31,680 --> 00:45:28,690
the news for example and how to have a

979
00:45:34,230 --> 00:45:31,690
few elementary information on how to

980
00:45:37,470 --> 00:45:34,240
distinguish between what could be faking

981
00:45:41,490 --> 00:45:37,480
what to be real so how to address the

982
00:45:44,940 --> 00:45:41,500
sources and so on so that we're working

983
00:45:46,490 --> 00:45:44,950
so the names like what how did you how

984
00:45:50,070 --> 00:45:46,500
did you become involved with chicken

985
00:45:53,310 --> 00:45:50,080
because in the beginning

986
00:45:55,560 --> 00:45:53,320
because when I was a very young guy read

987
00:45:57,540 --> 00:45:55,570
the book by Pierre Angela it was about

988
00:46:02,190 --> 00:45:57,550

an inverse a critical investigation on

989
00:46:05,340 --> 00:46:02,200
parapsychology and the main figure from

990
00:46:08,940 --> 00:46:05,350
that book was James Randi so I was

991
00:46:11,580 --> 00:46:08,950
fascinated by this whole personality and

992
00:46:14,280 --> 00:46:11,590
the soul approach the scientific method

993
00:46:18,000 --> 00:46:14,290
look to me something so fascinating and

994
00:46:22,590 --> 00:46:18,010
in a way of approaching life so clear

995
00:46:23,850 --> 00:46:22,600
and reasonable that I was some as I said

996
00:46:25,440 --> 00:46:23,860
so passionate about the thing that I

997
00:46:27,330 --> 00:46:25,450
wrote a letter at the time there was no

998
00:46:29,910 --> 00:46:27,340
internet I wrote a letter to both of

999
00:46:31,500 --> 00:46:29,920
them - dear Angela and James Randi just

1000
00:46:33,150 --> 00:46:31,510
thanking them and hoping that someday I

1001
00:46:35,790 --> 00:46:33,160
could meet them and thank them in person

1002
00:46:38,640 --> 00:46:35,800
and hoping maybe that a committee like

1003
00:46:41,340 --> 00:46:38,650
that was in America's psychopath attack

1004
00:46:44,310 --> 00:46:41,350
could be formed in Italy as well and to

1005
00:46:46,650 --> 00:46:44,320
my surprise they both reply Carranza

1006
00:46:49,320 --> 00:46:46,660
wanted to meet me because he was

1007
00:46:51,330 --> 00:46:49,330
interested in a young person so

1008
00:46:52,920 --> 00:46:51,340
fascinated by the subject and he also

1009
00:46:54,470 --> 00:46:52,930
had this idea of forming a committee

1010
00:46:56,720 --> 00:46:54,480
like psycho

1011
00:46:59,380 --> 00:46:56,730
and eventually Randy came to Italy

1012
00:47:03,500 --> 00:46:59,390
because it was friend with Piero and

1013
00:47:06,079 --> 00:47:03,510

they invited me and so they after

1014
00:47:08,780 --> 00:47:06,089
spending a few days together they asked

1015
00:47:11,299 --> 00:47:08,790
me if I was interested in going in the

1016
00:47:15,170 --> 00:47:11,309
US and study with Randy and be his

1017
00:47:16,849 --> 00:47:15,180
apprentice in order to learn Christ and

1018
00:47:21,349 --> 00:47:16,859
then bring back the experience in order

1019
00:47:23,809 --> 00:47:21,359
to start she cut and swore in it so

1020
00:47:26,780 --> 00:47:23,819
that's a long time ago yeah so you've

1021
00:47:29,539 --> 00:47:26,790
been the director of all that time no no

1022
00:47:32,299 --> 00:47:29,549
there was another director I was exempt

1023
00:47:33,890 --> 00:47:32,309
I was following investigations for one

1024
00:47:37,789 --> 00:47:33,900
time then I was the director of the

1025
00:47:42,260 --> 00:47:37,799
magazine and now I'm the director of the

1026
00:47:44,000 --> 00:47:42,270
committee okay what are the main current

1027
00:47:50,960 --> 00:47:44,010
activities that you're involved in or

1028
00:47:53,960 --> 00:47:50,970
maybe a few well in chica as I said one

1029
00:47:56,089 --> 00:47:53,970
of the main thing is this collaboration

1030
00:47:58,230 --> 00:47:56,099
we have the middle Ministry of Education

1031
00:48:02,100 --> 00:47:58,240
and yeah

1032
00:48:03,510 --> 00:48:02,110
and university and I just want to

1033
00:48:04,440 --> 00:48:03,520
actually focus on that come on because

1034
00:48:06,990 --> 00:48:04,450
this is something that we've been

1035
00:48:08,160 --> 00:48:07,000
thinking about for a while critical

1036
00:48:11,190 --> 00:48:08,170
thinking is obviously something that's

1037
00:48:14,660 --> 00:48:11,200
told indirectly incidentally in history

1038
00:48:17,250 --> 00:48:14,670

and geography and as as in English so

1039
00:48:18,870 --> 00:48:17,260
but we've been thinking about how we

1040
00:48:20,280 --> 00:48:18,880
could not critical thinking in schools

1041
00:48:22,260 --> 00:48:20,290
in a way that is more direct where

1042
00:48:24,240 --> 00:48:22,270
people actually their children actually

1043
00:48:26,640 --> 00:48:24,250
aware that what they're doing is

1044
00:48:29,580 --> 00:48:26,650
critical thinking not just indirectly

1045
00:48:31,770 --> 00:48:29,590
but directly taught the terms taught

1046
00:48:35,609 --> 00:48:31,780
about logical fallacies that have just

1047
00:48:37,280 --> 00:48:35,619
taught to assess things when while

1048
00:48:40,470 --> 00:48:37,290
knowing that that's what they do

1049
00:48:42,690 --> 00:48:40,480
so I'm really interested in in maybe

1050
00:48:45,240 --> 00:48:42,700
getting a more detailed perspective well

1051
00:48:46,370 --> 00:48:45,250
you know we have tried for a long time

1052
00:48:49,880 --> 00:48:46,380
to do this

1053
00:48:54,570 --> 00:48:49,890
we've always been lecturing in schools

1054
00:48:56,340 --> 00:48:54,580
occasionally with with no plan for the

1055
00:48:58,040 --> 00:48:56,350
whole country and just whatever they

1056
00:49:00,960 --> 00:48:58,050
call this with why I'm somebody that

1057
00:49:03,570 --> 00:49:00,970
doesn't make a real change on Facebook

1058
00:49:07,020 --> 00:49:03,580
or some single people maybe some single

1059
00:49:10,440 --> 00:49:07,030
kids but the idea of having the program

1060
00:49:13,530 --> 00:49:10,450
that the school have to follow every

1061
00:49:15,990 --> 00:49:13,540
year include this subject was something

1062
00:49:17,970 --> 00:49:16,000
that was very important to us because we

1063
00:49:20,849 --> 00:49:17,980

think it is important to investigate the

1064
00:49:23,520 --> 00:49:20,859
claims to be behind kind of frauds and

1065
00:49:27,300 --> 00:49:23,530
whatever it may be but you know that you

1066
00:49:29,430 --> 00:49:27,310
know that change because - they want to

1067
00:49:32,220 --> 00:49:29,440
believe but what is very useful is to

1068
00:49:35,760 --> 00:49:32,230
give young people the instruments to

1069
00:49:38,340 --> 00:49:35,770
find out by themselves they can trust

1070
00:49:40,710 --> 00:49:38,350
something or not so we've always worked

1071
00:49:43,920 --> 00:49:40,720
toward this goal and finally we've been

1072
00:49:47,580 --> 00:49:43,930
able to define it people interested in

1073
00:49:51,210 --> 00:49:47,590
the ministry in our approach and so it's

1074
00:49:52,710 --> 00:49:51,220
going to be starting next year so we are

1075
00:49:55,260 --> 00:49:52,720
just working out the details

1076
00:49:57,930 --> 00:49:55,270
how do you I mean in in some sense

1077
00:49:58,650 --> 00:49:57,940
something like this the curriculum is

1078
00:50:01,320 --> 00:49:58,660
the easy part

1079
00:50:04,109 --> 00:50:01,330
sometimes inner with a lot of topics the

1080
00:50:06,060 --> 00:50:04,119
curriculum is that that's the goal or

1081
00:50:07,560 --> 00:50:06,070
the content is the difficult part here

1082
00:50:11,040 --> 00:50:07,570
the content is not the issue it's

1083
00:50:14,060 --> 00:50:11,050
convincing schools politicians whoever

1084
00:50:17,010 --> 00:50:14,070
you know administrators bureaucrats that

1085
00:50:19,740 --> 00:50:17,020
what you are offering is something of

1086
00:50:23,289 --> 00:50:19,750
value is the main issue

1087
00:50:25,000 --> 00:50:23,299
how how did you go about doing that as I

1088
00:50:30,309 --> 00:50:25,010

said it was not easy because it was many

1089
00:50:32,740 --> 00:50:30,319
years so what was it I guess I don't

1090
00:50:37,120 --> 00:50:32,750
perhaps every little detail but I'm just

1091
00:50:39,430 --> 00:50:37,130
wondering whether the focus was probably

1092
00:50:41,109 --> 00:50:39,440
multi-pronged theory but you know

1093
00:50:43,510 --> 00:50:41,119
sometimes you go to you find a

1094
00:50:46,270 --> 00:50:43,520
sympathetic politician and that opens

1095
00:50:48,579 --> 00:50:46,280
the door for you or sometimes it's it

1096
00:50:51,599 --> 00:50:48,589
comes you know - yeah groundswell and is

1097
00:50:55,150 --> 00:50:51,609
that what changed is the perception that

1098
00:50:57,130 --> 00:50:55,160
politicians administrators have of the

1099
00:51:01,299 --> 00:50:57,140
work that we do for example because fake

1100
00:51:03,549 --> 00:51:01,309
news have become a huge problem in Italy

1101
00:51:07,530 --> 00:51:03,559
as well as all over the world yeah and

1102
00:51:10,660 --> 00:51:07,540
suddenly we find out that dealing with

1103
00:51:12,789 --> 00:51:10,670
people making false statements is a real

1104
00:51:15,400 --> 00:51:12,799
problem because it can damage the lives

1105
00:51:17,829 --> 00:51:15,410
of so many people's look at vaccines for

1106
00:51:22,599 --> 00:51:17,839
example and they had to promote a law

1107
00:51:26,000 --> 00:51:22,609
making it mandatory to have kids Baxter

1108
00:51:27,250 --> 00:51:26,010
is otherwise it was growing

1109
00:51:30,460 --> 00:51:27,260
[Music]

1110
00:51:34,180 --> 00:51:30,470
movement anti-vaccine so since this

1111
00:51:36,880 --> 00:51:34,190
became quite a big problem they probably

1112
00:51:39,700 --> 00:51:36,890
started to look around who was the

1113
00:51:41,950 --> 00:51:39,710

experts who were the experts in this

1114
00:51:43,660 --> 00:51:41,960
field and they found that networks back

1115
00:51:45,670 --> 00:51:43,670
wait for the world of this number

1116
00:51:48,280 --> 00:51:45,680
president what Kiera and there was a lot

1117
00:51:50,170 --> 00:51:48,290
of people concerned about this and has

1118
00:51:52,450 --> 00:51:50,180
been concerned for so many years and

1119
00:51:54,130 --> 00:51:52,460
they contacted us and we started working

1120
00:51:59,140 --> 00:51:54,140
together that is an amazing achievement

1121
00:52:00,400 --> 00:51:59,150
to have them come to you I think look

1122
00:52:02,740 --> 00:52:00,410
it's a it's the kind of thing that

1123
00:52:04,150 --> 00:52:02,750
happens for many many years as work on

1124
00:52:05,920 --> 00:52:04,160
making putting yourself in the right

1125
00:52:10,150 --> 00:52:05,930
position one final question because

1126
00:52:12,940 --> 00:52:10,160
Randy's is yeah what what is the next

1127
00:52:17,470 --> 00:52:12,950
step for you well this is going to be

1128
00:52:20,860 --> 00:52:17,480
very engaging for all of us but also we

1129
00:52:25,060 --> 00:52:20,870
are approaching our work in in a more

1130
00:52:27,070 --> 00:52:25,070
open way which is putting the action

1131
00:52:29,110 --> 00:52:27,080
more on the scientific method and our

1132
00:52:31,930 --> 00:52:29,120
science because we find that you can

1133
00:52:35,350 --> 00:52:31,940
reach more people like this way for

1134
00:52:37,030 --> 00:52:35,360
example this year next week from when we

1135
00:52:40,120 --> 00:52:37,040
are speaking that is going to be in

1136
00:52:43,150 --> 00:52:40,130
Italy our first checkup fest which is

1137
00:52:45,910 --> 00:52:43,160
open to the city what we are holding it

1138
00:52:47,590 --> 00:52:45,920

and so far it's the the largest

1139
00:52:50,800 --> 00:52:47,600
attendance that we have ever had which

1140
00:52:52,800 --> 00:52:50,810
is 800 people subscribing in order to

1141
00:52:56,710 --> 00:52:52,810
participate but we are also going to

1142
00:52:58,930 --> 00:52:56,720
involve many other person that are not

1143
00:53:01,780 --> 00:52:58,940
participating to the Congress that say

1144
00:53:04,600 --> 00:53:01,790
but making make may participate to a

1145
00:53:05,900 --> 00:53:04,610
open conference or we are going into the

1146
00:53:08,450 --> 00:53:05,910
schools

1147
00:53:11,300 --> 00:53:08,460
in workshops and laboratories with kids

1148
00:53:14,870 --> 00:53:11,310
and an exhibition on optical illusion

1149
00:53:16,850 --> 00:53:14,880
some many things in order to to have

1150
00:53:18,200 --> 00:53:16,860
people talk about this subject in many

1151
00:53:20,210 --> 00:53:18,210
different ways and I think that we're

1152
00:53:24,890 --> 00:53:20,220
going more and more the work that

1153
00:53:26,690 --> 00:53:24,900
direction very good in there while we

1154
00:53:29,390 --> 00:53:26,700
were sitting here talking James Randi

1155
00:53:31,700 --> 00:53:29,400
joined us hello Randy hello there

1156
00:53:33,800 --> 00:53:31,710
I've noticed that you've in the past

1157
00:53:36,580 --> 00:53:33,810
couple of months you've become active

1158
00:53:40,070 --> 00:53:36,590
within the skeptical movement

1159
00:53:44,660 --> 00:53:43,430
this is obviously your how many trips

1160
00:53:46,150 --> 00:53:44,670
that we had to Europe do you even know

1161
00:53:48,830 --> 00:53:46,160
do you even know the number

1162
00:53:50,600 --> 00:53:48,840
countless I'm harmless I'm going around

1163
00:53:52,160 --> 00:53:50,610

the world all the time I mean I know

1164
00:53:54,710 --> 00:53:52,170
you've been to Australia about five or

1165
00:53:59,240 --> 00:53:54,720
six times play at least oh yeah at least

1166
00:54:02,060 --> 00:53:59,250
so I mean you've been to 2/3 of our

1167
00:54:04,220 --> 00:54:02,070
conferences so that's just that's three

1168
00:54:06,320 --> 00:54:04,230
trips just just that a lot a close

1169
00:54:09,320 --> 00:54:06,330
friend invited Jake Smith of course and

1170
00:54:12,710 --> 00:54:09,330
Philip Adams of people I respect very

1171
00:54:15,380 --> 00:54:12,720
highly yeah and and of course these are

1172
00:54:16,760 --> 00:54:15,390
people who are still active with the not

1173
00:54:18,410 --> 00:54:16,770
necessarily directly with it with

1174
00:54:20,240 --> 00:54:18,420
Australian skeptics but the active with

1175
00:54:23,120 --> 00:54:20,250
the spreading spreading the message I

1176
00:54:25,220 --> 00:54:23,130
understand this this plan for this to be

1177
00:54:27,200 --> 00:54:25,230
your last trip to Europe is that that's

1178
00:54:30,590 --> 00:54:27,210
something somebody said it's the latest

1179
00:54:33,610 --> 00:54:30,600
trip it's always true isn't it that's

1180
00:54:37,660 --> 00:54:33,620
challenging and you know I might I

1181
00:54:40,330 --> 00:54:37,670
of 89 I think I have an expectation of a

1182
00:54:44,050 --> 00:54:40,340
few more years my family history showed

1183
00:54:48,070 --> 00:54:44,060
me that my grandparents live into their

1184
00:54:51,220 --> 00:54:48,080
very late 80s and into their nineties in

1185
00:54:54,340 --> 00:54:51,230
a couple of cases so I'm encouraged by

1186
00:54:56,970 --> 00:54:54,350
that I don't want to tend to die too

1187
00:55:00,850 --> 00:55:00,160
yeah well you're obviously working on on

1188
00:55:05,380 --> 00:55:00,860

a book right now

1189
00:55:06,820 --> 00:55:05,390
yes book yeah and I understand that at

1190
00:55:08,710 --> 00:55:06,830
the moment you're what you're doing is

1191
00:55:10,960 --> 00:55:08,720
you're whittling it down by dudes it's

1192
00:55:15,100 --> 00:55:10,970
too big and yes it's gotta be cut down

1193
00:55:16,630 --> 00:55:15,110
someone but I'll do it very gently yeah

1194
00:55:19,000 --> 00:55:16,640
we've already heard that you don't know

1195
00:55:20,770 --> 00:55:19,010
when he's coming out no but is there

1196
00:55:22,810 --> 00:55:20,780
like a time scale is it within the next

1197
00:55:25,780 --> 00:55:22,820
with the coming year yes I would say

1198
00:55:29,110 --> 00:55:25,790
within another year yeah okay you've

1199
00:55:33,670 --> 00:55:29,120
retired from the from active duty within

1200
00:55:36,610 --> 00:55:33,680
the jrf a few years ago almost nine I

1201
00:55:38,110 --> 00:55:36,620
can't really Merrill all together they

1202
00:55:40,570 --> 00:55:38,120
just sort of step to the side

1203
00:55:42,970 --> 00:55:40,580
momentarily to get some sleep over down

1204
00:55:45,490 --> 00:55:42,980
there and then I write back him again

1205
00:55:46,510 --> 00:55:45,500
so what are the plans apart from the

1206
00:55:48,580 --> 00:55:46,520
book what you're working on what are

1207
00:55:52,210 --> 00:55:48,590
your other plans for let's say for the

1208
00:55:54,430 --> 00:55:52,220
next 30 months well I have a lot of

1209
00:55:56,039 --> 00:55:54,440
obligations that I have personal

1210
00:55:58,109 --> 00:55:56,049
obligations that I have

1211
00:56:00,749 --> 00:55:58,119
friends some of whom were in the

1212
00:56:03,959 --> 00:56:00,759
skeptical movement and I've got to

1213
00:56:07,049 --> 00:56:03,969

fulfill those but it's far too

1214
00:56:09,749 --> 00:56:07,059
complicated a thing to cut down into a

1215
00:56:13,529 --> 00:56:09,759
short discussion I can assure you

1216
00:56:17,849 --> 00:56:13,539
we're going to be at Las Vegas or psycho

1217
00:56:20,699 --> 00:56:17,859
oh yes various from Saigon

1218
00:56:22,620 --> 00:56:20,709
about this it's coming up soon yeah I

1219
00:56:23,400 --> 00:56:22,630
guess I'd better get ready but I forgot

1220
00:56:26,370 --> 00:56:23,410
all about that

1221
00:56:28,349 --> 00:56:26,380
oh yeah sure no I can't forget about

1222
00:56:32,069 --> 00:56:28,359
these things I have them on my calendar

1223
00:56:33,930 --> 00:56:32,079
and that extra thread during the fact

1224
00:56:37,650 --> 00:56:33,940
that they're coming closer and closer

1225
00:56:39,660 --> 00:56:37,660
every day and I'm getting closer to the

1226
00:56:41,519 --> 00:56:39,670
end of my days as well

1227
00:56:44,579 --> 00:56:41,529
so I hope the two of them don't call it

1228
00:56:46,109 --> 00:56:44,589
tight so for that this conference you

1229
00:56:48,180 --> 00:56:46,119
mean I noticed the you've attended

1230
00:56:49,859 --> 00:56:48,190
almost the entire three days

1231
00:56:51,959 --> 00:56:49,869
and I was just wondering what's your

1232
00:56:54,959 --> 00:56:51,969
impression is of this European library

1233
00:56:58,890 --> 00:56:54,969
impressed and not having been to the

1234
00:57:02,670 --> 00:56:58,900
Poland before and in fact not very much

1235
00:57:04,529 --> 00:57:02,680
in this part of the world really I see

1236
00:57:06,900 --> 00:57:04,539
that I've missed a great deal because I

1237
00:57:09,479 --> 00:57:06,910
actually had very interesting contrast

1238
00:57:15,420 --> 00:57:09,489

in some of the buildings or buildings

1239
00:57:22,690 --> 00:57:19,740
attractive I would say political views

1240
00:57:25,720 --> 00:57:22,700
I'm pleased to see the wave woman who's

1241
00:57:29,080 --> 00:57:25,730
come along I'm very very pleased and

1242
00:57:31,330 --> 00:57:29,090
impressed there is one more thing I

1243
00:57:35,170 --> 00:57:31,340
would ask you to to do if you don't mind

1244
00:57:36,730 --> 00:57:35,180
before we finish that is say this is

1245
00:57:40,180 --> 00:57:36,740
James Randi and you're listening to the

1246
00:57:43,660 --> 00:57:40,190
skeptic sound hi this is James Randi and

1247
00:57:45,250 --> 00:57:43,670
you're listening at skeptic so and maybe

1248
00:57:46,960 --> 00:57:45,260
if you just want to give a personal

1249
00:57:48,550 --> 00:57:46,970
message to Richard because he will be

1250
00:57:50,320 --> 00:57:48,560
editing this so he will even if he

1251
00:57:52,180 --> 00:57:50,330
chooses to edit it out he will hear your

1252
00:57:57,730 --> 00:57:52,190
personal message well Richard try to

1253
00:57:59,400 --> 00:57:57,740
make my voice is Randy thank you very

1254
00:58:11,130 --> 00:57:59,410
much it's a pleasure

1255
00:58:17,350 --> 00:58:14,680
hi everyone this is Susan from the GSO W

1256
00:58:20,260 --> 00:58:17,360
project and I'm in Frankfurt Germany

1257
00:58:23,560 --> 00:58:20,270
right at the moment with the about time

1258
00:58:28,930 --> 00:58:23,570
tour and we've stopped in at a pub

1259
00:58:31,390 --> 00:58:28,940
called albatross and help address and I

1260
00:58:34,210 --> 00:58:31,400
have we've met up with one of the

1261
00:58:36,480 --> 00:58:34,220
speakers from the conference and I'll

1262
00:58:39,100 --> 00:58:36,490
let you talk to him right now and he is

1263
00:58:40,590 --> 00:58:39,110

his lecture was quite humorous I think

1264
00:58:44,620 --> 00:58:40,600
it was the last one at the conference

1265
00:58:46,270 --> 00:58:44,630
almost the last one at the conference oh

1266
00:58:50,170 --> 00:58:46,280
yeah that's right Randy was afterwards

1267
00:58:52,210 --> 00:58:50,180
and we talked to and home did a lecture

1268
00:58:53,650 --> 00:58:52,220
on quantum and it was quite funny and we

1269
00:58:56,290 --> 00:58:53,660
really kind of needed something funny

1270
00:58:58,090 --> 00:58:56,300
for for the end so it was terrific

1271
00:59:01,300 --> 00:58:58,100
I laughed quite a bit at some of the

1272
00:59:03,970 --> 00:59:01,310
examples he put up so all right well my

1273
00:59:06,190 --> 00:59:03,980
name is Hana I'm from the frankfurt area

1274
00:59:08,650 --> 00:59:06,200
in germany and I'm originally a

1275
00:59:10,450 --> 00:59:08,660
physicist and have been working as a

1276
00:59:12,530 --> 00:59:10,460
management consultant for a little over

1277
00:59:16,590 --> 00:59:12,540
15 years now and

1278
00:59:18,420 --> 00:59:16,600
basically came back to doing some

1279
00:59:21,270 --> 00:59:18,430
physics through the skeptical scene and

1280
00:59:23,580 --> 00:59:21,280
recently wrote a book called La Diva

1281
00:59:25,200 --> 00:59:23,590
Bunton Clarke relative quantum nonsense

1282
00:59:29,510 --> 00:59:25,210
and I have a blog about that too which

1283
00:59:32,310 --> 00:59:29,520
is all in German so unfortunately it's

1284
00:59:36,390 --> 00:59:32,320
there's not much there in English so far

1285
00:59:40,280 --> 00:59:36,400
but yeah that's what I basically did not

1286
00:59:43,440 --> 00:59:40,290
too recently and deal with all kinds of

1287
00:59:45,120 --> 00:59:43,450
nonsense that is justified with quantum

1288
00:59:50,120 --> 00:59:45,130

physics or with a theory of relativity

1289
00:59:55,320 --> 00:59:50,130
and of a pseudo physics concepts that

1290
00:59:57,480 --> 00:59:55,330
might link into that so this conference

1291
00:59:59,930 --> 00:59:57,490
is over we're all a little tired you've

1292
01:00:01,680 --> 00:59:59,940
had a day or two right to kind of relax

1293
01:00:05,220 --> 01:00:01,690
what were the highlights of the

1294
01:00:08,070 --> 01:00:05,230
conference for you the highlights of the

1295
01:00:13,410 --> 01:00:08,080
conference for me were well on the one

1296
01:00:20,750 --> 01:00:13,420
hand the The Exorcism documentary which

1297
01:00:24,780 --> 01:00:20,760
was really creepy really touching and

1298
01:00:30,050 --> 01:00:24,790
then everything that has to do with with

1299
01:00:32,580 --> 01:00:30,060
the the psychology of pseudoscience and

1300
01:00:38,250 --> 01:00:32,590
psychology and scepticism which i think

1301
01:00:41,310 --> 01:00:38,260
is always the most interesting topic to

1302
01:00:43,860 --> 01:00:41,320
me because it's just not just about

1303
01:00:46,890 --> 01:00:43,870
debunking things it's more about why

1304
01:00:48,330 --> 01:00:46,900
people believe things that's that's I

1305
01:00:52,560 --> 01:00:48,340
think that's much more interesting for

1306
01:00:56,010 --> 01:00:52,570
us skeptics too when we're getting away

1307
01:00:59,490 --> 01:00:56,020
from the purely consumer protection part

1308
01:01:01,590 --> 01:00:59,500
of what we're doing any takeaways did

1309
01:01:03,720 --> 01:01:01,600
you learn something new that you I mean

1310
01:01:04,500 --> 01:01:03,730
besides exorcism there something that

1311
01:01:06,690 --> 01:01:04,510
you

1312
01:01:08,550 --> 01:01:06,700
he came home and he said oh my gosh I

1313
01:01:11,360 --> 01:01:08,560

had no idea that was fascinating

1314
01:01:15,120 --> 01:01:11,370
I really didn't know about that before

1315
01:01:18,150 --> 01:01:15,130
well besides that exorcism I I would say

1316
01:01:21,940 --> 01:01:18,160
the fact that exorcisms are such a big

1317
01:01:26,589 --> 01:01:21,950
issue in Poland is really the

1318
01:01:28,569 --> 01:01:26,599
main surprise for me and that because

1319
01:01:31,480 --> 01:01:28,579
you don't really hear much of that in

1320
01:01:34,180 --> 01:01:31,490
Germany and so that was that was

1321
01:01:36,730 --> 01:01:34,190
shocking and that was surprising and

1322
01:01:40,030 --> 01:01:36,740
that was really the one that stands out

1323
01:01:42,670 --> 01:01:40,040
to me at the point at this point thank

1324
01:01:42,680 --> 01:02:01,710
[Music]

1325
01:02:06,820 --> 01:02:04,060
thank you for listening to the skeptic

1326
01:02:09,940 --> 01:02:06,830
zone now we've had another another

1327
01:02:13,540 --> 01:02:09,950
contribution via the voice bite app and

1328
01:02:15,610 --> 01:02:13,550
this one's from Canada hey Richard its

1329
01:02:17,650 --> 01:02:15,620
Tamara from Edmonton Alberta Canada

1330
01:02:19,740 --> 01:02:17,660
what sort of paranormal field were you

1331
01:02:22,210 --> 01:02:19,750
interested in when you were younger

1332
01:02:25,360 --> 01:02:22,220
thanks Tamara that's a really good

1333
01:02:28,270 --> 01:02:25,370
question I think in the very early days

1334
01:02:30,130 --> 01:02:28,280
it was Bigfoot when I was a little kid

1335
01:02:33,490 --> 01:02:30,140
that was all the rage that was

1336
01:02:35,500 --> 01:02:33,500
everywhere that was on TV and lots of

1337
01:02:38,230 --> 01:02:35,510
mystery and books and Bigfoot Bigfoot

1338
01:02:40,270 --> 01:02:38,240

Bigfoot yeah but then not long after it

1339
01:02:43,300 --> 01:02:40,280
really changed to UFOs partly I think

1340
01:02:45,730 --> 01:02:43,310
because of the movie Close Encounters of

1341
01:02:50,980 --> 01:02:45,740
the Third Kind which was a huge smash

1342
01:02:53,050 --> 01:02:50,990
and Star Wars and those listeners who

1343
01:02:57,580 --> 01:02:53,060
were around in the late 70s will

1344
01:02:59,020 --> 01:02:57,590
remember that Australia especially and I

1345
01:03:01,690 --> 01:02:59,030
guess the United States went bonkers

1346
01:03:03,880 --> 01:03:01,700
went crazy for UFOs they were just every

1347
01:03:06,250 --> 01:03:03,890
and we expected they would land any day

1348
01:03:08,710 --> 01:03:06,260
in fact I've got a video up in my

1349
01:03:11,410 --> 01:03:08,720
cupboard I'm looking at it now a DVD

1350
01:03:15,010 --> 01:03:11,420
which says something like if I can see

1351
01:03:17,220 --> 01:03:15,020
UFOs it's has begun or they're already

1352
01:03:22,590 --> 01:03:17,230
here or and that was the late seventies

1353
01:03:26,350 --> 01:03:22,600
so yeah Bigfoot to begin with and then

1354
01:03:28,390 --> 01:03:26,360
UFOs and then I think the rest you know

1355
01:03:30,790 --> 01:03:28,400
psychics and water divining and all that

1356
01:03:32,470 --> 01:03:30,800
sort of stuff thanks very much for your

1357
01:03:35,350 --> 01:03:32,480
contribution tamara and i look forward

1358
01:03:37,350 --> 01:03:35,360
to seeing you i hope in los face that

1359
01:03:39,790 --> 01:03:37,360
saikhan coming up in a couple of weeks

1360
01:03:41,650 --> 01:03:39,800
and if you want to send in a question or

1361
01:03:44,860 --> 01:03:41,660
a comment to the skeptic zone just

1362
01:03:47,500 --> 01:03:44,870
download the voice bite app and use the

1363
01:03:51,370 --> 01:03:47,510

hashtag skeptic zone you can find links

1364
01:03:52,780 --> 01:03:51,380
on skeptic zone TV coming up on next

1365
01:03:55,930 --> 01:03:52,790
week's show apart from anything else

1366
01:03:58,560 --> 01:03:55,940
around Segev chat - the african skeptic

1367
01:04:01,120 --> 01:03:58,570
or the skeptic from africa leo egg way

1368
01:04:07,400 --> 01:04:01,130
but until then this is Richard Saunders

1369
01:04:13,610 --> 01:04:09,930
you've been listening to the skeptic

1370
01:04:18,600 --> 01:04:13,620
zone podcast please visit our website at

1371
01:04:21,420 --> 01:04:18,610
WWDC because shownotes contacts and to

1372
01:04:25,050 --> 01:04:21,430
access the bat catalog of episodes going

1373
01:04:27,860 --> 01:04:25,060
back to 2008 you can follow the skeptic

1374
01:04:30,600 --> 01:04:27,870
zone podcast on twitter at skeptic zone

1375
01:04:33,870 --> 01:04:30,610
visit our facebook page or leave a

1376
01:04:36,990 --> 01:04:33,880
review on iTunes you can also support

1377
01:04:39,390 --> 01:04:37,000
the skeptic zone via patreon or PayPal

1378
01:04:42,840 --> 01:04:39,400
you can be part of the show by

1379
01:04:47,070 --> 01:04:42,850
downloading the voice byte app at Voice

1380
01:04:50,310 --> 01:04:47,080
bite comm and using the hashtag skeptic

1381
01:04:52,950 --> 01:04:50,320
zone the skeptic zone podcast is an

1382
01:04:54,780 --> 01:04:52,960
independent production reviews and

1383
01:04:57,030 --> 01:04:54,790
opinions expressed on the skeptic zone

1384
01:04:59,580 --> 01:04:57,040
and not necessarily those of Australian

1385
01:05:00,440 --> 01:04:59,590
skeptics or any other sceptical