

1  
00:00:06,000 --> 00:00:13,699  
welcome to the skeptic zone the podcast

2  
00:00:09,089 --> 00:00:13,699  
from Australia for science and reason

3  
00:00:22,719 --> 00:00:30,469  
hello and welcome to the skeptic zone

4  
00:00:25,940 --> 00:00:32,419  
for Sunday the third of November 2013

5  
00:00:30,469 --> 00:00:34,579  
Richardson is here with you they're

6  
00:00:32,418 --> 00:00:37,000  
coming live from the festival of mind

7  
00:00:34,579 --> 00:00:42,349  
body spirit or of course as we call it

8  
00:00:37,000 --> 00:00:43,909  
mind body wallet very crowded here today

9  
00:00:42,350 --> 00:00:47,629  
down in darling harbour in Sydney in the

10  
00:00:43,909 --> 00:00:51,378  
huge exhibition center many many stores

11  
00:00:47,628 --> 00:00:54,409  
and stands lots of people are about

12  
00:00:51,378 --> 00:00:57,170  
hello the science of spirituality who

13  
00:00:54,409 --> 00:00:58,968  
knew it was a science spiritual healing

14  
00:00:57,170 --> 00:01:01,700  
which means just holding your hand above

15  
00:00:58,969 --> 00:01:04,368  
somebody for no apparent reason all

16  
00:01:01,700 --> 00:01:07,189  
going effects Australia selling devices

17  
00:01:04,368 --> 00:01:10,060  
to save you from naughty energy which I

18  
00:01:07,189 --> 00:01:13,569  
might check back later on

19  
00:01:10,060 --> 00:01:14,710  
hmm and all sorts of other things I'm

20  
00:01:13,569 --> 00:01:17,258  
going to wander around here and i'll

21  
00:01:14,709 --> 00:01:19,688  
report back a little bit later in the

22  
00:01:17,259 --> 00:01:23,349  
show but coming up coming up on this

23  
00:01:19,688 --> 00:01:26,678  
week's episode of the skeptic zone or if

24  
00:01:23,349 --> 00:01:29,228  
Maynard Maynard at the recent Skippy

25  
00:01:26,679 --> 00:01:31,539  
camp talking to some people Kate always

26  
00:01:29,228 --> 00:01:34,420  
and Robin Hilliard about various

27  
00:01:31,539 --> 00:01:38,200  
interesting skeptical matters including

28  
00:01:34,420 --> 00:01:40,450  
aviation are also my report about the

29

00:01:38,200 --> 00:01:43,030  
recent young scientist of the Year

30  
00:01:40,450 --> 00:01:46,390  
awards I was very honored to go down and

31  
00:01:43,030 --> 00:01:47,709  
present some awards down there and yes I

32  
00:01:46,390 --> 00:01:50,618  
couldn't help but I couldn't help it in

33  
00:01:47,709 --> 00:01:52,810  
fact I was requested to but I had to do

34  
00:01:50,618 --> 00:01:55,450  
it I had to bend a spoon that's a tough

35  
00:01:52,810 --> 00:01:56,978  
life anyway that report coming back on

36  
00:01:55,450 --> 00:01:58,569  
and more information about the wonderful

37  
00:01:56,978 --> 00:02:03,759  
program that is the young scientists of

38  
00:01:58,569 --> 00:02:05,740  
the year of course we have weakened

39  
00:02:03,759 --> 00:02:08,560  
signs with dr. Paul woods from the Royal

40  
00:02:05,739 --> 00:02:11,519  
Institution of Australia which is of

41  
00:02:08,560 --> 00:02:13,199  
course very popular

42  
00:02:11,520 --> 00:02:14,040  
a bit later on in the show more

43  
00:02:13,199 --> 00:02:15,959

information about the upcoming

44

00:02:14,039 --> 00:02:17,370

Australian skeptics convention some more

45

00:02:15,960 --> 00:02:20,340

information about the wonderful fringe

46

00:02:17,370 --> 00:02:22,950

events we have going on down there and

47

00:02:20,340 --> 00:02:25,259

I've been told there are less than 20

48

00:02:22,949 --> 00:02:28,819

tickets now less than 20 tickets for the

49

00:02:25,259 --> 00:02:32,069

convention now is the time to book

50

00:02:28,819 --> 00:02:38,280

anyway well I wonder around this maze of

51

00:02:32,069 --> 00:02:41,219

people and it's just coffee oh my love

52

00:02:38,280 --> 00:02:44,669

can't be all bad and psychics oh well

53

00:02:41,219 --> 00:02:47,009

there you go I'll do that i'll report

54

00:02:44,669 --> 00:02:49,579

back later and i hope you enjoy the

55

00:02:47,009 --> 00:02:49,579

skeptics are

56

00:03:05,479 --> 00:03:09,959

during the week it was my pleasure to

57

00:03:07,740 --> 00:03:12,240

travel down to warn Gong which is south

58  
00:03:09,960 --> 00:03:14,400  
of Sydney to the University of

59  
00:03:12,240 --> 00:03:17,700  
Wollongong I was going down there to

60  
00:03:14,400 --> 00:03:21,090  
take part in the young scientist award

61  
00:03:17,699 --> 00:03:23,969  
now the young scientist award is from

62  
00:03:21,090 --> 00:03:26,039  
the Science Teachers Association of New

63  
00:03:23,969 --> 00:03:28,620  
South Wales a wonderful group of people

64  
00:03:26,039 --> 00:03:31,019  
and the Australian skeptics have been

65  
00:03:28,620 --> 00:03:33,509  
associated with these awards now for

66  
00:03:31,020 --> 00:03:35,790  
many years before the awards ceremony I

67  
00:03:33,509 --> 00:03:38,969  
spent some time in the wollongong

68  
00:03:35,789 --> 00:03:42,599  
Science Center and planetarium which was

69  
00:03:38,969 --> 00:03:45,060  
a lot of fun Here I am at the Science

70  
00:03:42,599 --> 00:03:48,049  
Center getting ready for the young

71  
00:03:45,060 --> 00:04:11,730  
scientist awards and I found here

72  
00:03:48,050 --> 00:04:15,000  
therapy there we go well not exactly the

73  
00:04:11,729 --> 00:04:17,189  
beach boys but there you go a theremin

74  
00:04:15,000 --> 00:04:18,689  
good heavens it's a nice little setup

75  
00:04:17,189 --> 00:04:21,209  
they've got here at the planetarium and

76  
00:04:18,689 --> 00:04:23,430  
science center at the university of

77  
00:04:21,209 --> 00:04:27,899  
wollongong there's a mechanical elephant

78  
00:04:23,430 --> 00:04:30,810  
or dinosaur have to check that out looks

79  
00:04:27,899 --> 00:04:34,079  
like a theropod

80  
00:04:30,810 --> 00:04:36,750  
the skeleton of the theropod anyway and

81  
00:04:34,079 --> 00:04:40,199  
very nicely displayed that is too with

82  
00:04:36,750 --> 00:04:43,009  
around the corner here your replica of

83  
00:04:40,199 --> 00:04:43,009  
Archaeopteryx

84  
00:04:43,839 --> 00:04:51,899  
and look above me and I see an early box

85  
00:04:49,139 --> 00:04:56,168  
kite which can be the prototype for the

86

00:04:51,899 --> 00:04:58,299  
fire they've got one of these

87  
00:04:56,168 --> 00:05:02,198  
interesting pendulums here which rocked

88  
00:04:58,300 --> 00:05:03,550  
back and forth and to show that the

89  
00:05:02,199 --> 00:05:07,150  
earth is spinning and knocks over

90  
00:05:03,550 --> 00:05:09,100  
various dumb dominoes as it goes an

91  
00:05:07,149 --> 00:05:13,299  
exercise bike the texts to your power

92  
00:05:09,100 --> 00:05:16,660  
output all sorts of waits until Roboto a

93  
00:05:13,300 --> 00:05:18,520  
little robot press it's a little robot

94  
00:05:16,660 --> 00:05:23,650  
inside a glass dome poor little thing

95  
00:05:18,519 --> 00:05:26,639  
it's got looks like eyes it's like a rat

96  
00:05:23,649 --> 00:05:30,189  
in a cage just pumping back and forth

97  
00:05:26,639 --> 00:05:32,759  
ugh brains it's called

98  
00:05:30,189 --> 00:05:37,750  
coming over here to the back of the room

99  
00:05:32,759 --> 00:05:43,379  
what do we have oh it's one of these um

100  
00:05:37,750 --> 00:05:43,379

Jacob ladder electrical devices

101

00:05:44,709 --> 00:05:51,359  
and next to it is one of the one of

102

00:05:48,730 --> 00:05:55,900  
those things in seven of nine used to

103

00:05:51,360 --> 00:05:58,170  
sleep under to regenerate a plasma sort

104

00:05:55,899 --> 00:05:58,169  
of thing

105

00:05:58,680 --> 00:06:02,759  
what god this is a little hidden

106

00:06:00,360 --> 00:06:05,430  
treasure here for Wollongong people come

107

00:06:02,759 --> 00:06:07,080  
to your planetarium look at a vortex

108

00:06:05,430 --> 00:06:12,180  
here spinning away in water Oates you

109

00:06:07,079 --> 00:06:13,469  
stopped a giant clock here I better go

110

00:06:12,180 --> 00:06:17,250  
upstairs and check out the nano

111

00:06:13,470 --> 00:06:18,960  
technology exhibition oh my way up the

112

00:06:17,250 --> 00:06:21,689  
stairs there's a current population

113

00:06:18,959 --> 00:06:29,430  
clock of the world the Australian number

114

00:06:21,689 --> 00:06:37,259  
is only 21 nearly 22 million note

115  
00:06:29,430 --> 00:06:41,030  
strange sound you can hear hundreds of

116  
00:06:37,259 --> 00:06:44,150  
little beads falling down a pyramid of

117  
00:06:41,029 --> 00:06:46,918  
little stoppers to represent probability

118  
00:06:44,149 --> 00:06:49,409  
and the computer down below shows us

119  
00:06:46,918 --> 00:06:52,459  
that these little beads appalling more

120  
00:06:49,410 --> 00:06:58,189  
or less as you would expect with a bell

121  
00:06:52,459 --> 00:06:58,189  
curve from the hypnotic

122  
00:07:03,468 --> 00:07:09,209  
that's a little bit later on the whole

123  
00:07:06,509 --> 00:07:10,770  
place is alive with all the guests and

124  
00:07:09,209 --> 00:07:12,930  
students here for the young scientist

125  
00:07:10,769 --> 00:07:17,158  
award and back at the big pendulum now

126  
00:07:12,930 --> 00:07:19,129  
knocking over the Donald dominoes the

127  
00:07:17,158 --> 00:07:24,139  
graph over there looks like it's a

128  
00:07:19,129 --> 00:07:24,139  
seismic measuring device

129  
00:07:26,860 --> 00:07:30,669  
it's really nice to see this area for

130  
00:07:28,750 --> 00:07:32,918  
full of people them robots are out it

131  
00:07:30,668 --> 00:07:37,799  
again bouncing around their little

132  
00:07:32,918 --> 00:07:37,799  
enclosures like rats in a trap

133  
00:07:38,019 --> 00:07:44,439  
and I can play with the robot here and

134  
00:07:40,490 --> 00:07:44,439  
pick up um locks

135  
00:08:03,598 --> 00:08:07,779  
well after looking around the science

136  
00:08:06,038 --> 00:08:09,788  
center and planetarium bus getting a

137  
00:08:07,779 --> 00:08:12,339  
laser show in the planetary which was

138  
00:08:09,788 --> 00:08:16,079  
really spectacular it was time to go to

139  
00:08:12,339 --> 00:08:18,908  
the young scientists Awards I was very

140  
00:08:16,079 --> 00:08:27,008  
privileged to be able to present one of

141  
00:08:18,908 --> 00:08:28,810  
the wards myself I like mike says days

142  
00:08:27,009 --> 00:08:30,939  
Richard Saunders of these strange

143

00:08:28,810 --> 00:08:33,190  
skeptics to come to the front and say a

144  
00:08:30,939 --> 00:08:35,079  
few words with a Foreman's will also

145  
00:08:33,190 --> 00:08:42,669  
present a special recognition awards in

146  
00:08:35,078 --> 00:08:43,989  
a scientific investigation section thank

147  
00:08:42,668 --> 00:08:48,610  
you very much what a pleasure it is to

148  
00:08:43,990 --> 00:08:51,370  
be here again I've been very lucky to be

149  
00:08:48,610 --> 00:08:54,250  
able to come here here after here most

150  
00:08:51,370 --> 00:08:56,919  
years for many years now to shake the

151  
00:08:54,250 --> 00:08:59,500  
hands of the young scientist so many of

152  
00:08:56,919 --> 00:09:01,479  
you may wonder why would like the

153  
00:08:59,500 --> 00:09:03,339  
Australian skeptics is interested in

154  
00:09:01,480 --> 00:09:06,278  
supporting the young scientist flat

155  
00:09:03,339 --> 00:09:10,000  
heart the Australian skeptics supports

156  
00:09:06,278 --> 00:09:12,429  
science that's our key interest so far

157  
00:09:10,000 --> 00:09:14,980

we have so much fun we get to look for

158

00:09:12,429 --> 00:09:17,708

ghosts we really do like monsters and

159

00:09:14,980 --> 00:09:19,690

UFOs and all that sort of stuff and many

160

00:09:17,708 --> 00:09:22,059

years ago and this is why the skeptics

161

00:09:19,690 --> 00:09:25,510

really got going there were people going

162

00:09:22,059 --> 00:09:29,349

around the world claiming they can do

163

00:09:25,509 --> 00:09:31,269

things science couldn't explain i'm

164

00:09:29,350 --> 00:09:33,339

going to show you an optical illusions

165

00:09:31,269 --> 00:09:37,149

it's a normal it's an old one but two

166

00:09:33,339 --> 00:09:40,209

big one the spoon somebody requested I

167

00:09:37,149 --> 00:09:42,909

bring a spoon Indian thing it's just a

168

00:09:40,208 --> 00:09:44,619

normal spoon but there's a great optical

169

00:09:42,909 --> 00:09:48,219

illusion something you may have seen

170

00:09:44,620 --> 00:09:51,310

with a pen you all depend like this you

171

00:09:48,220 --> 00:09:55,209

give a little eagle it can look like

172  
00:09:51,309 --> 00:09:56,349  
it's made have a brother so bear that

173  
00:09:55,208 --> 00:09:58,989  
optical

174  
00:09:56,350 --> 00:10:01,750  
and to show you what people used to do

175  
00:09:58,990 --> 00:10:03,700  
to trick out the people remember it's an

176  
00:10:01,750 --> 00:10:06,220  
optical illusion so we get this spoon

177  
00:10:03,700 --> 00:10:09,310  
which I got from the payment shop I hold

178  
00:10:06,220 --> 00:10:11,560  
it like this is a little run here and I

179  
00:10:09,309 --> 00:10:14,169  
think to myself I want this spoon to

180  
00:10:11,559 --> 00:10:17,319  
melt and bend in my hands against the

181  
00:10:14,169 --> 00:10:21,959  
laws of physics here we go and if you

182  
00:10:17,320 --> 00:10:25,990  
concentrate you will actually think

183  
00:10:21,960 --> 00:10:30,280  
you're seeing that spoon start to wiggle

184  
00:10:25,990 --> 00:10:31,930  
it's such a strong delusion I wrote just

185  
00:10:30,279 --> 00:10:35,350  
do that see that you can see that

186  
00:10:31,929 --> 00:10:38,109  
wiggling yeah yeah of course spoons

187  
00:10:35,350 --> 00:10:39,580  
can't do that we know now is only about

188  
00:10:38,110 --> 00:10:42,720  
the collusion because you can't read

189  
00:10:39,580 --> 00:10:42,720  
become becomes

190  
00:10:53,389 --> 00:10:57,980  
last time I did that everybody important

191  
00:11:05,450 --> 00:11:11,940  
what we do in the Australian skeptics is

192  
00:11:08,190 --> 00:11:15,060  
we would have unusual claims and we

193  
00:11:11,940 --> 00:11:18,570  
pounce on people who use scientific

194  
00:11:15,059 --> 00:11:21,479  
sounding words to sell things that are

195  
00:11:18,570 --> 00:11:24,030  
really in there just plain nonsense and

196  
00:11:21,480 --> 00:11:26,100  
we have an awful lot of but next time I

197  
00:11:24,029 --> 00:11:27,929  
go on a ghost nothing to her I might

198  
00:11:26,100 --> 00:11:36,060  
invite some young scientists with me

199  
00:11:27,929 --> 00:11:39,000  
thank you very much and the young

200

00:11:36,059 --> 00:11:42,000  
scientist of the year for this year 2013

201  
00:11:39,000 --> 00:11:44,460  
was Ethan butson from the Illawarra

202  
00:11:42,000 --> 00:11:47,519  
grammar school now a three times when I

203  
00:11:44,460 --> 00:11:50,160  
which i think is a record the strength

204  
00:11:47,519 --> 00:11:52,079  
of his research was the development of a

205  
00:11:50,159 --> 00:11:54,209  
prototype device to improve the vision

206  
00:11:52,080 --> 00:11:57,090  
of people who have suffered certain

207  
00:11:54,210 --> 00:11:58,940  
visual impairments due to a stroke that

208  
00:11:57,090 --> 00:12:02,879  
sounds very impressive i hope to

209  
00:11:58,940 --> 00:12:05,100  
interview Ethan are pretty soon on the

210  
00:12:02,879 --> 00:12:07,590  
skeptic zone other winners on the night

211  
00:12:05,100 --> 00:12:11,250  
in the primary section the primary young

212  
00:12:07,590 --> 00:12:13,590  
scientist was Juliet npton of Abbot's

213  
00:12:11,250 --> 00:12:16,309  
Leigh junior school and the budding

214  
00:12:13,590 --> 00:12:20,100

young scientist was Cameron phrygia of

215

00:12:16,309 --> 00:12:22,409

Glenhaven public school congratulations

216

00:12:20,100 --> 00:12:24,269

to all the winners and well done to the

217

00:12:22,409 --> 00:12:26,730

Science Teachers Association of New

218

00:12:24,269 --> 00:12:29,569

South Wales for supporting young

219

00:12:26,730 --> 00:12:29,570

scientists

220

00:12:45,419 --> 00:12:51,370

the mystery investigators show four high

221

00:12:48,730 --> 00:12:54,278

schools using science to investigate the

222

00:12:51,370 --> 00:12:57,820

strange and mysterious spoon bending

223

00:12:54,278 --> 00:13:02,259

fire walking a bed of nails water

224

00:12:57,820 --> 00:13:04,750

divining astrology false memories how do

225

00:13:02,259 --> 00:13:06,939

you use the scientific method to

226

00:13:04,750 --> 00:13:09,458

investigate and explain these strange

227

00:13:06,940 --> 00:13:12,190

and amazing claims the mystery

228

00:13:09,458 --> 00:13:15,879

investigators show is a fun interactive

229  
00:13:12,190 --> 00:13:19,839  
hour of science and magic if you're in

230  
00:13:15,879 --> 00:13:22,720  
the sydney area visit w WM astray

231  
00:13:19,839 --> 00:13:25,149  
investigators com to find out more and

232  
00:13:22,720 --> 00:13:28,360  
for bookings the mystery investigators

233  
00:13:25,149 --> 00:13:31,259  
using science to investigate the strange

234  
00:13:28,360 --> 00:13:31,259  
and mysterious

235  
00:13:47,129 --> 00:13:51,369  
the mind-body-spirit first of all I'm

236  
00:13:49,568 --> 00:13:54,909  
just walking around now the various mini

237  
00:13:51,369 --> 00:13:58,869  
aisles here and maybe it's occurred to

238  
00:13:54,909 --> 00:14:00,698  
me it does occur to me sometimes that is

239  
00:13:58,869 --> 00:14:01,959  
this a case of let the buyer beware I

240  
00:14:00,698 --> 00:14:04,258  
mean there are all sorts of people here

241  
00:14:01,958 --> 00:14:06,599  
selling things that don't work and

242  
00:14:04,259 --> 00:14:10,360  
psychic experiences which aren't

243  
00:14:06,600 --> 00:14:12,869  
obviously true out-of-body for example

244  
00:14:10,360 --> 00:14:16,919  
which I'm passing at the moment but

245  
00:14:12,869 --> 00:14:20,139  
what's what's the what's the stage where

246  
00:14:16,919 --> 00:14:23,678  
the government and authority should step

247  
00:14:20,139 --> 00:14:25,298  
in and persecute or whatever for selling

248  
00:14:23,678 --> 00:14:28,088  
fake products I guess they should I

249  
00:14:25,298 --> 00:14:29,769  
guess they should but everybody here has

250  
00:14:28,089 --> 00:14:32,319  
the opportunity to find out if these

251  
00:14:29,769 --> 00:14:34,328  
things are my legitimate or not a lot of

252  
00:14:32,318 --> 00:14:36,938  
them want them to be true lot of them

253  
00:14:34,328 --> 00:14:39,548  
will spend their money here regardless I

254  
00:14:36,938 --> 00:14:42,719  
would suspect it's an interesting one I

255  
00:14:39,548 --> 00:14:47,860  
guess there are various limits levels I

256  
00:14:42,720 --> 00:14:50,410  
wonder where that line in the sand is

257

00:14:47,860 --> 00:14:53,659  
the acupuncture clinic is very father ah

258  
00:14:50,409 --> 00:14:56,379  
here's the room of psychics

259  
00:14:53,659 --> 00:14:58,789  
50 or so psychics are sitting at tables

260  
00:14:56,379 --> 00:15:00,379  
and you can choose your psychic from the

261  
00:14:58,789 --> 00:15:03,309  
wall of psychics or the photograph and

262  
00:15:00,379 --> 00:15:05,360  
what they do oh how exciting is that

263  
00:15:03,309 --> 00:15:07,789  
seems to me you can make a decent living

264  
00:15:05,360 --> 00:15:11,149  
just by setting up a storm waving your

265  
00:15:07,789 --> 00:15:15,679  
hands over somebody which people are

266  
00:15:11,149 --> 00:15:17,230  
doing right left and center on custom

267  
00:15:15,679 --> 00:15:22,489  
has to do is sit down shut their eyes

268  
00:15:17,230 --> 00:15:25,580  
ten minutes later hand over money no end

269  
00:15:22,490 --> 00:15:27,379  
of acupuncture charts in this place the

270  
00:15:25,580 --> 00:15:30,170  
plastic ones you've probably seen

271  
00:15:27,379 --> 00:15:33,019

yourself with a skinned human showing

272

00:15:30,169 --> 00:15:36,129

muscle and magic meridian lines see

273

00:15:33,019 --> 00:15:39,319

about four of them sensible coming in

274

00:15:36,129 --> 00:15:42,240

and various people claiming to be

275

00:15:39,320 --> 00:15:44,459

psychic whatever that means

276

00:15:42,240 --> 00:15:48,240

and the prize for the best and word

277

00:15:44,458 --> 00:15:51,869

salad of the day goes to quantum balance

278

00:15:48,240 --> 00:15:56,370

crystals that waiteth a body scans and

279

00:15:51,870 --> 00:15:58,669

energy readings \$25 for 10 minutes yep

280

00:15:56,370 --> 00:16:01,340

that's the winner

281

00:15:58,669 --> 00:16:03,799

we also have the other popular or images

282

00:16:01,340 --> 00:16:06,230

with those funny aura camera suits look

283

00:16:03,799 --> 00:16:10,609

like very old fashioned boxes Fox

284

00:16:06,230 --> 00:16:13,909

brownies or something yeah

285

00:16:10,610 --> 00:16:17,539

natural dentistry one shudders to think

286  
00:16:13,909 --> 00:16:18,949  
what that means raylene cable it was the

287  
00:16:17,539 --> 00:16:22,250  
contestant on the very first series of

288  
00:16:18,950 --> 00:16:25,160  
the one in 2008 she's got a little booth

289  
00:16:22,250 --> 00:16:29,200  
here a big poster as seen on the hit TV

290  
00:16:25,159 --> 00:16:33,120  
series the lamp there you go

291  
00:16:29,200 --> 00:16:33,120  
free spine and health check

292  
00:16:34,370 --> 00:16:39,860  
you have to see someone doing the body

293  
00:16:37,549 --> 00:16:41,899  
balance tricks with the power bands or

294  
00:16:39,860 --> 00:16:44,690  
anything like that but i still haven't

295  
00:16:41,899 --> 00:16:46,639  
seen everything yet rap still something

296  
00:16:44,690 --> 00:16:48,260  
I can't quite get used to harmony conia

297  
00:16:46,639 --> 00:16:51,319  
candles and there's a woman lying down

298  
00:16:48,259 --> 00:16:54,439  
with a candle stuck in her ear and the

299  
00:16:51,320 --> 00:16:57,200  
other side is blazing merrily away from

300  
00:16:54,440 --> 00:16:59,029  
those people who follow me on Facebook

301  
00:16:57,200 --> 00:17:00,410  
probably know exactly what I'm talking

302  
00:16:59,028 --> 00:17:03,080  
about because I'm about to take a

303  
00:17:00,409 --> 00:17:06,129  
picture of it I've been coming to this

304  
00:17:03,080 --> 00:17:11,920  
mind body right now for over 10 years

305  
00:17:06,130 --> 00:17:14,390  
twice a year for over 10 years and yeah

306  
00:17:11,920 --> 00:17:17,420  
sometimes I'm listen but the frustration

307  
00:17:14,390 --> 00:17:19,429  
is really apparent because I'm passing

308  
00:17:17,420 --> 00:17:22,130  
all sorts of people paying good may for

309  
00:17:19,429 --> 00:17:23,750  
all sorts of services which my the laws

310  
00:17:22,130 --> 00:17:26,689  
of nature and physics can't possibly

311  
00:17:23,750 --> 00:17:28,880  
work and there's a part of me I guess

312  
00:17:26,689 --> 00:17:30,529  
you could understand that wants to tell

313  
00:17:28,880 --> 00:17:32,990  
everybody stop in and say look this

314

00:17:30,529 --> 00:17:36,259  
doesn't work

315  
00:17:32,990 --> 00:17:38,558  
these machines don't do anything this

316  
00:17:36,259 --> 00:17:41,279  
product is clearly bogus but you can't

317  
00:17:38,558 --> 00:17:43,289  
you know

318  
00:17:41,279 --> 00:17:45,420  
you'd probably be shown the door or

319  
00:17:43,289 --> 00:17:46,470  
you'd be wasting your time to logic

320  
00:17:45,420 --> 00:17:53,539  
sneakers people don't want to hear this

321  
00:17:46,470 --> 00:17:56,970  
but I will admit it can be really really

322  
00:17:53,539 --> 00:17:59,769  
frustrating it's like you feel sort of

323  
00:17:56,970 --> 00:18:01,960  
helpless in a way but I guess

324  
00:17:59,769 --> 00:18:04,089  
give it getting information and then

325  
00:18:01,960 --> 00:18:06,549  
acting on it later on the best you can

326  
00:18:04,089 --> 00:18:08,949  
is the best you can do sort of leave you

327  
00:18:06,549 --> 00:18:11,359  
at that frustration I will admit so I

328  
00:18:08,950 --> 00:18:15,019

think I've mentioned this before that

329

00:18:11,359 --> 00:18:17,779

periodically I get the better myself and

330

00:18:15,019 --> 00:18:21,740

I'll say something no argue with a

331

00:18:17,779 --> 00:18:26,160

stallholder on it something like that it

332

00:18:21,740 --> 00:18:28,589

gives you a momentary buzz

333

00:18:26,160 --> 00:18:31,140

doesn't really help

334

00:18:28,589 --> 00:18:34,278

but it doesn't really Indiana doesn't

335

00:18:31,140 --> 00:18:34,278

really achieve much I don't think

336

00:18:34,640 --> 00:18:38,550

still

337

00:18:36,450 --> 00:18:42,440

rule human an assignment um about

338

00:18:38,549 --> 00:18:45,740

passing says you were not born to suffer

339

00:18:42,440 --> 00:18:45,740

so there you go

340

00:18:45,910 --> 00:18:50,360

well I guess it's a bonus because

341

00:18:48,259 --> 00:18:53,809

there's nobody here doing kinesiology

342

00:18:50,359 --> 00:18:55,429

tests as the in the ones of the the arm

343  
00:18:53,809 --> 00:18:56,990  
tests and the rubber bands and selling

344  
00:18:55,430 --> 00:18:59,539  
pendants and making yourself weak or

345  
00:18:56,990 --> 00:19:02,059  
strong or whatever the case may be used

346  
00:18:59,539 --> 00:19:04,670  
before there will be numerous people

347  
00:19:02,059 --> 00:19:06,859  
doing those sort of things but they seem

348  
00:19:04,670 --> 00:19:11,289  
to have gone so I guess that's a plus

349  
00:19:06,859 --> 00:19:11,289  
there's something good to report

350  
00:19:15,069 --> 00:19:20,299  
yeah I said before that I'd found the

351  
00:19:17,480 --> 00:19:23,630  
winner for the word salad well I think I

352  
00:19:20,299 --> 00:19:26,690  
found another winner quantum vortex

353  
00:19:23,630 --> 00:19:29,540  
healing revolutionary and a

354  
00:19:26,690 --> 00:19:35,870  
multi-dimensional fifteen dollars for 15

355  
00:19:29,539 --> 00:19:37,869  
minutes so there you go how about that

356  
00:19:35,869 --> 00:19:42,229  
there's actually a palm reader here

357  
00:19:37,869 --> 00:19:44,569  
goodness me behold favorite well I have

358  
00:19:42,230 --> 00:19:47,720  
a bag full of a ferocious the pore over

359  
00:19:44,569 --> 00:19:50,179  
later on from everything from magic

360  
00:19:47,720 --> 00:19:54,740  
devices to save your home from naughty

361  
00:19:50,180 --> 00:19:57,980  
energies or campaigning to take away

362  
00:19:54,740 --> 00:20:00,589  
fluoride from our water supply and all

363  
00:19:57,980 --> 00:20:02,120  
sorts of things like that if you get a

364  
00:20:00,589 --> 00:20:04,789  
chance to come to a mind-body-spirit

365  
00:20:02,119 --> 00:20:07,219  
festival I suggest you take it and walk

366  
00:20:04,789 --> 00:20:10,339  
around ask questions have a look gather

367  
00:20:07,220 --> 00:20:11,870  
brochures it's not a waste of time it's

368  
00:20:10,339 --> 00:20:14,149  
not a waste of money if something every

369  
00:20:11,869 --> 00:20:15,919  
skeptical should do it's all very well

370  
00:20:14,150 --> 00:20:18,100  
being skeptical about things but I think

371

00:20:15,920 --> 00:20:21,890  
you need to be

372  
00:20:18,099 --> 00:20:26,569  
on the frontline some time looking

373  
00:20:21,890 --> 00:20:27,890  
gathering information learning even

374  
00:20:26,569 --> 00:20:31,849  
though it can be quite frustrating at

375  
00:20:27,890 --> 00:20:36,820  
times so I think it's time for me to

376  
00:20:31,849 --> 00:20:36,819  
slowly make my way somehow to the door

377  
00:20:49,599 --> 00:20:53,750  
hey this is jay novella from the

378  
00:20:52,130 --> 00:20:55,670  
skeptics guide to the universe podcast

379  
00:20:53,750 --> 00:20:57,529  
did you know that there are thousands of

380  
00:20:55,670 --> 00:20:59,240  
skeptical reports interviews and

381  
00:20:57,529 --> 00:21:01,970  
investigations going back to nineteen

382  
00:20:59,240 --> 00:21:05,839  
eighty one free to download just visit w

383  
00:21:01,970 --> 00:21:07,549  
WC a pet co a you click the publications

384  
00:21:05,839 --> 00:21:09,259  
link and enjoy almost every back issue

385  
00:21:07,549 --> 00:21:11,058

of the skeptic the journal from

386

00:21:09,259 --> 00:21:12,619

Australian skeptics you can also

387

00:21:11,058 --> 00:21:14,899

subscribe online and get the latest

388

00:21:12,619 --> 00:21:16,909

digital or hard copy of this the world's

389

00:21:14,900 --> 00:21:20,600

second oldest skeptical magazine that's

390

00:21:16,910 --> 00:21:31,160

ww skeptics com au or just google

391

00:21:20,599 --> 00:21:34,219

Australian skeptics this week in science

392

00:21:31,160 --> 00:21:37,220

we Sol reconstructing lost lumbering the

393

00:21:34,220 --> 00:21:42,130

tail wagging the dog and Forests respond

394

00:21:37,220 --> 00:21:42,130

to global warming and what what is that

395

00:21:48,069 --> 00:21:53,778

one of the largest ever dinosaurs has

396

00:21:50,839 --> 00:21:57,048

taken its first steps in 94 million

397

00:21:53,778 --> 00:21:59,390

years paleontologists stand a 40 meter

398

00:21:57,048 --> 00:22:01,819

long skeleton of Argentinosaurus and

399

00:21:59,390 --> 00:22:04,009

used digital modeling to recreate it

400  
00:22:01,819 --> 00:22:06,168  
walking and running these impressive

401  
00:22:04,009 --> 00:22:08,210  
animals and not like any creature alive

402  
00:22:06,169 --> 00:22:10,100  
today which creates a lot of

403  
00:22:08,210 --> 00:22:12,048  
misunderstanding about how they could

404  
00:22:10,099 --> 00:22:14,778  
have moved the new study clearly

405  
00:22:12,048 --> 00:22:17,418  
demonstrates that this 80,000 kilo

406  
00:22:14,778 --> 00:22:19,640  
dinosaur was able to stroll across South

407  
00:22:17,419 --> 00:22:23,600  
America at about eight kilometres an

408  
00:22:19,640 --> 00:22:26,028  
hour have you ever wondered how ticks

409  
00:22:23,599 --> 00:22:28,428  
get under your skin for the first time

410  
00:22:26,028 --> 00:22:30,950  
researchers videoed and analyzed how a

411  
00:22:28,429 --> 00:22:32,990  
tick attaches to the skin it uses a

412  
00:22:30,950 --> 00:22:35,360  
ratchet like mechanism where to mouth

413  
00:22:32,990 --> 00:22:38,298  
parts move alternately to generate an

414  
00:22:35,359 --> 00:22:41,000  
anchor point it then uses a breaststroke

415  
00:22:38,298 --> 00:22:43,398  
like motion to insert a bob spike

416  
00:22:41,000 --> 00:22:48,519  
allowing it to stay attached fat out to

417  
00:22:43,398 --> 00:22:48,519  
a week and yes this is very gross

418  
00:22:48,579 --> 00:22:53,869  
traditional swaddling of babies may lead

419  
00:22:51,319 --> 00:22:56,028  
to hip problems later in life those

420  
00:22:53,869 --> 00:22:58,819  
brain training games apps and websites

421  
00:22:56,028 --> 00:23:01,250  
may improve your memory but not your

422  
00:22:58,819 --> 00:23:03,859  
intelligence forest canopies grow bent

423  
00:23:01,250 --> 00:23:06,200  
over time buffering lower growing plants

424  
00:23:03,859 --> 00:23:07,788  
against global warming and dogs respond

425  
00:23:06,200 --> 00:23:09,710  
differently when their mates wag their

426  
00:23:07,788 --> 00:23:11,629  
tails to the right then when they wag

427  
00:23:09,710 --> 00:23:14,860  
them to the left which is thought to

428

00:23:11,630 --> 00:23:17,540  
signify different emotions

429  
00:23:14,859 --> 00:23:30,949  
that's it for this a week in science

430  
00:23:17,539 --> 00:23:32,950  
I'll see you back here next week now on

431  
00:23:30,950 --> 00:23:35,630  
Belfast FM we turn to the person lads

432  
00:23:32,950 --> 00:23:37,940  
easygoing and confidence skeptic seeks

433  
00:23:35,630 --> 00:23:40,010  
other critical thinkers for fun laughter

434  
00:23:37,940 --> 00:23:42,049  
and good times must be willing to apply

435  
00:23:40,009 --> 00:23:43,730  
logic liberally and a good listener

436  
00:23:42,049 --> 00:23:46,099  
expect something new and interesting

437  
00:23:43,730 --> 00:23:48,019  
every month come on meet me in Belfast

438  
00:23:46,099 --> 00:23:49,879  
in Northern Ireland if this sounds like

439  
00:23:48,019 --> 00:23:55,089  
you check out my profile on bail for

440  
00:23:49,880 --> 00:23:55,090  
skeptics calm music by kevin macleod

441  
00:23:57,910 --> 00:24:05,590  
here's my not spooky action at the

442  
00:24:03,109 --> 00:24:05,589

distance

443

00:24:06,380 --> 00:24:13,050

there's no who we got here my name is

444

00:24:09,960 --> 00:24:15,090

Kate always and now are you a splinter

445

00:24:13,049 --> 00:24:16,919

group of in the within the skeptics a

446

00:24:15,089 --> 00:24:18,569

you another skeptic group member you an

447

00:24:16,920 --> 00:24:20,730

atheist group member what group do you

448

00:24:18,569 --> 00:24:23,819

represent today I get involved with in

449

00:24:20,730 --> 00:24:25,769

atheist groups okay and right and now

450

00:24:23,819 --> 00:24:29,909

are the many familiar faces you are

451

00:24:25,769 --> 00:24:32,519

skeptics usually atheists generally

452

00:24:29,910 --> 00:24:35,009

absolutely this group which is lovely

453

00:24:32,519 --> 00:24:37,410

I've been coming for three years because

454

00:24:35,009 --> 00:24:41,150

I'm with the UTS atheists and we

455

00:24:37,410 --> 00:24:43,500

actually sponsor by booking the rooms so

456

00:24:41,150 --> 00:24:46,620

this is a great group that we're very

457  
00:24:43,500 --> 00:24:48,808  
happy to to be involved with because yes

458  
00:24:46,619 --> 00:24:51,808  
most people are atheists if they're not

459  
00:24:48,808 --> 00:24:53,910  
it's not a big deal hmm people

460  
00:24:51,808 --> 00:24:56,160  
understand what I talk about atheists

461  
00:24:53,910 --> 00:24:57,630  
issues very much certainly things I'd

462  
00:24:56,160 --> 00:24:59,340  
like to have a chat to some skeptics at

463  
00:24:57,630 --> 00:25:00,600  
our theist one day I just haven't met

464  
00:24:59,339 --> 00:25:01,649  
any or any that want to have a chat I'd

465  
00:25:00,599 --> 00:25:04,230  
like to have a chat to them about how

466  
00:25:01,650 --> 00:25:05,759  
they have a reconcile that yes it would

467  
00:25:04,230 --> 00:25:07,860  
be very interesting I've met a few

468  
00:25:05,759 --> 00:25:10,589  
people over the years with various views

469  
00:25:07,859 --> 00:25:12,599  
that being in involved in atheism gets

470  
00:25:10,589 --> 00:25:14,189  
people coming to you and at the

471  
00:25:12,599 --> 00:25:15,990  
university of technology here in sydney

472  
00:25:14,190 --> 00:25:17,400  
what is the biggest challenge for the

473  
00:25:15,990 --> 00:25:18,808  
atheists here in the group has ever got

474  
00:25:17,400 --> 00:25:21,540  
a campaign of any sort going on the

475  
00:25:18,808 --> 00:25:23,428  
moment the biggest challenge is getting

476  
00:25:21,539 --> 00:25:26,490  
it together to get people in the same

477  
00:25:23,429 --> 00:25:29,190  
place do there are lots of people who

478  
00:25:26,490 --> 00:25:31,380  
are interested who expressed that we

479  
00:25:29,190 --> 00:25:33,420  
could do great things but getting them

480  
00:25:31,380 --> 00:25:37,140  
to do it on we're contending with the

481  
00:25:33,420 --> 00:25:39,808  
problems of the neoliberal world and the

482  
00:25:37,140 --> 00:25:41,880  
cubs in education which make life hard

483  
00:25:39,808 --> 00:25:43,920  
for students in general and how do you

484  
00:25:41,880 --> 00:25:46,470  
get on with the Islamic and Christian

485

00:25:43,920 --> 00:25:49,259  
groups on campus great actually we've

486  
00:25:46,470 --> 00:25:52,829  
had several events that we've held with

487  
00:25:49,259 --> 00:25:54,960  
the Christians with credo here and some

488  
00:25:52,829 --> 00:25:57,509  
of their people have regularly come to

489  
00:25:54,960 --> 00:26:00,929  
our events to the Islamic and the Jewish

490  
00:25:57,509 --> 00:26:04,379  
groups and the the Adventist group even

491  
00:26:00,929 --> 00:26:06,780  
we've been working on have it organizing

492  
00:26:04,380 --> 00:26:12,840  
with but they're not quite so big and

493  
00:26:06,779 --> 00:26:14,490  
organized and huge and living sometimes

494  
00:26:12,839 --> 00:26:16,230  
an interfaith meeting can be a lot of

495  
00:26:14,490 --> 00:26:17,039  
fun because you get to have your ideas

496  
00:26:16,230 --> 00:26:19,079  
challenged and

497  
00:26:17,039 --> 00:26:20,700  
you learn a bit about the way theists

498  
00:26:19,079 --> 00:26:21,929  
think and perceive the world and and

499  
00:26:20,700 --> 00:26:25,350

that that can only be a learning

500

00:26:21,930 --> 00:26:27,420

experience usually absolutely well I'm

501

00:26:25,349 --> 00:26:28,709

very keen to talk to the Jewish group

502

00:26:27,420 --> 00:26:31,110

because they've been having issues with

503

00:26:28,710 --> 00:26:34,650

that they have a lot of atheists in

504

00:26:31,109 --> 00:26:37,409

their group make sense to me and but

505

00:26:34,650 --> 00:26:40,230

they had a speaker recently who was who

506

00:26:37,410 --> 00:26:42,360

blamed Jewish atheists for the demise of

507

00:26:40,230 --> 00:26:45,750

Jewish culture or something so they're

508

00:26:42,359 --> 00:26:49,349

they're keen to talk to us also the

509

00:26:45,750 --> 00:26:52,460

Islamic group will we've agreed the

510

00:26:49,349 --> 00:26:54,480

people I've talked to that both groups

511

00:26:52,460 --> 00:26:56,309

experiencing similar things in that

512

00:26:54,480 --> 00:26:59,009

we're both minorities were both

513

00:26:56,309 --> 00:27:02,069

marginalized people think strange things

514  
00:26:59,009 --> 00:27:04,019  
about both of us and people in each

515  
00:27:02,069 --> 00:27:07,019  
group think very strange things about

516  
00:27:04,019 --> 00:27:09,539  
the others so yeah we're getting on to

517  
00:27:07,019 --> 00:27:12,059  
having a knife well moderated discussion

518  
00:27:09,539 --> 00:27:14,369  
that doesn't talk about what people

519  
00:27:12,059 --> 00:27:17,909  
believe but how people came to that and

520  
00:27:14,369 --> 00:27:19,679  
and what that does for us you spoke to

521  
00:27:17,910 --> 00:27:21,810  
me earlier briefly that you're getting a

522  
00:27:19,680 --> 00:27:23,130  
float together for Mardi Gras parade in

523  
00:27:21,809 --> 00:27:24,690  
sydney for the sydney mardi gras and you

524  
00:27:23,130 --> 00:27:27,420  
did one last year i believe tell us

525  
00:27:24,690 --> 00:27:30,750  
about that i am yes we've actually done

526  
00:27:27,420 --> 00:27:32,550  
five Mardi Gras floats it's the sydney

527  
00:27:30,750 --> 00:27:33,769  
queer atheists we came out of sydney

528

00:27:32,549 --> 00:27:37,049

atheists but now we're our own

529

00:27:33,769 --> 00:27:39,779

organization anybody is still welcome to

530

00:27:37,049 --> 00:27:43,230

come in our float but it's a lot of fun

531

00:27:39,779 --> 00:27:46,049

last year was the Higgs boson that we

532

00:27:43,230 --> 00:27:51,420

were celebrating so we had lots of big

533

00:27:46,049 --> 00:27:54,720

lanterns or lit up with with subatomic

534

00:27:51,420 --> 00:27:56,340

particle symbols written on them and it

535

00:27:54,720 --> 00:28:00,960

is great do you think the passing crowd

536

00:27:56,339 --> 00:28:03,599

got it some I'd say but they still

537

00:28:00,960 --> 00:28:05,819

responded very well weather weather many

538

00:28:03,599 --> 00:28:08,099

people understood the actual point or

539

00:28:05,819 --> 00:28:10,409

not and we could get our name it out

540

00:28:08,099 --> 00:28:12,539

there we always get a lot of people from

541

00:28:10,410 --> 00:28:14,550

inside the parade coming up to us and

542

00:28:12,539 --> 00:28:16,829  
saying how wonderful it is to have the

543  
00:28:14,549 --> 00:28:18,059  
atheists there I've got a theme for this

544  
00:28:16,829 --> 00:28:20,879  
this prayer which is coming up in

545  
00:28:18,059 --> 00:28:23,419  
February late very much as MIT is not

546  
00:28:20,880 --> 00:28:26,340  
yet we're trying to figure that out

547  
00:28:23,420 --> 00:28:29,548  
we've done flying free from religion and

548  
00:28:26,339 --> 00:28:34,079  
we've done coming out as atheist when

549  
00:28:29,548 --> 00:28:37,048  
we've done the bus campaign when when we

550  
00:28:34,079 --> 00:28:38,428  
weren't allowed to when the bus

551  
00:28:37,048 --> 00:28:40,710  
companies in the Billboard companies

552  
00:28:38,429 --> 00:28:43,850  
were not letting us advertise like

553  
00:28:40,710 --> 00:28:46,798  
what's happening around the world so we

554  
00:28:43,849 --> 00:28:49,048  
we made our own buses out of fridge

555  
00:28:46,798 --> 00:28:50,999  
boxes and wore them down the street for

556  
00:28:49,048 --> 00:28:52,378

Mardi Gras instead and where can we find

557

00:28:50,999 --> 00:28:53,788

you online to find out more about

558

00:28:52,378 --> 00:28:55,469

getting involved with your Mardi Gras

559

00:28:53,788 --> 00:28:57,419

parade I mean now's your chance look

560

00:28:55,470 --> 00:28:58,889

it's there's a lot of lead up to it if

561

00:28:57,419 --> 00:29:00,330

you're somewhere in Australia around the

562

00:28:58,888 --> 00:29:02,488

world you want a theist it wants to be a

563

00:29:00,329 --> 00:29:03,839

part of these in the atheists at the

564

00:29:02,489 --> 00:29:05,159

Mardi Gras parade would be a great thing

565

00:29:03,839 --> 00:29:06,749

to come in if you're visiting from

566

00:29:05,159 --> 00:29:07,950

overseas it'll be a great way to see the

567

00:29:06,749 --> 00:29:11,038

city wouldn't if you here at that time

568

00:29:07,950 --> 00:29:14,669

absolutely where are you online queer

569

00:29:11,038 --> 00:29:15,989

atheists org battle find everything

570

00:29:14,669 --> 00:29:17,340

there right thanks a lot and have a

571  
00:29:15,989 --> 00:29:18,929  
great day to skip to captain what's your

572  
00:29:17,339 --> 00:29:20,788  
vote for the cupcake camp by the way

573  
00:29:18,929 --> 00:29:23,159  
I've got to vote for that one no I

574  
00:29:20,788 --> 00:29:26,158  
haven't decided the the blue Cookie

575  
00:29:23,159 --> 00:29:27,960  
Monster ones just looked amazing but a

576  
00:29:26,159 --> 00:29:30,659  
little terrifying to eat so I don't know

577  
00:29:27,960 --> 00:29:32,608  
if I can vote on the taste really from

578  
00:29:30,659 --> 00:29:34,200  
just the look okay so you're thinking

579  
00:29:32,608 --> 00:29:35,428  
that there's a miniature cookie monster

580  
00:29:34,200 --> 00:29:38,669  
in your stomach that could cause some

581  
00:29:35,429 --> 00:29:43,950  
sort of evil no I think that much food

582  
00:29:38,669 --> 00:29:45,239  
coloring will turn me blue we here at

583  
00:29:43,950 --> 00:29:46,980  
skip de Kamp it's getting towards the

584  
00:29:45,239 --> 00:29:48,298  
end of the day with the cupcake moon has

585  
00:29:46,980 --> 00:29:50,819  
been announced and of course it's time

586  
00:29:48,298 --> 00:29:52,528  
to cross to our aviation correspondent

587  
00:29:50,819 --> 00:29:54,358  
for the skeptic zone Robin Hillier how

588  
00:29:52,528 --> 00:29:55,648  
are you very well thanks Maynard oh my

589  
00:29:54,358 --> 00:29:58,168  
last discussion with you on the skipped

590  
00:29:55,648 --> 00:30:00,238  
exam was heard by mar loca city a worker

591  
00:29:58,169 --> 00:30:02,100  
at NASA who worked on the mercury and

592  
00:30:00,239 --> 00:30:03,690  
Gemini and Apollo programs and he

593  
00:30:02,099 --> 00:30:05,878  
contacted me we had a great chat about

594  
00:30:03,690 --> 00:30:08,190  
aviation so I'd like to thank you for

595  
00:30:05,878 --> 00:30:09,988  
inspiring he actually worked on the tail

596  
00:30:08,190 --> 00:30:12,570  
of the Harrier Jump Jet i believe it's

597  
00:30:09,989 --> 00:30:14,220  
called the Cassetti tail that's very

598  
00:30:12,569 --> 00:30:16,589  
exciting I mean that was I mean that was

599

00:30:14,220 --> 00:30:18,600  
done by a halt so that was actually a

600  
00:30:16,589 --> 00:30:20,638  
British other maybe work on the AV eight

601  
00:30:18,599 --> 00:30:22,168  
they were doing some wind tunnel testing

602  
00:30:20,638 --> 00:30:23,428  
at NASA which is the place to do it at

603  
00:30:22,169 --> 00:30:25,379  
the time and that's where he became

604  
00:30:23,429 --> 00:30:27,059  
involved right okay that's very that's

605  
00:30:25,378 --> 00:30:28,319  
very cool yeah obviously very cool

606  
00:30:27,058 --> 00:30:29,489  
indeed I mean and it's a bit

607  
00:30:28,319 --> 00:30:30,898  
embarrassing cuz neither I was when we

608  
00:30:29,489 --> 00:30:33,419  
were mentioning our favorite planes at

609  
00:30:30,898 --> 00:30:35,099  
last year's a skeptic amp neither of us

610  
00:30:33,419 --> 00:30:36,269  
mentioned the the Harrier Jump Jet we

611  
00:30:35,099 --> 00:30:37,829  
probably should which is pretty special

612  
00:30:36,269 --> 00:30:39,899  
since then I have read a very

613  
00:30:37,829 --> 00:30:41,668

interesting autobiography called not

614

00:30:39,898 --> 00:30:42,449

much of an engineer by sir Stanley

615

00:30:41,669 --> 00:30:44,100

hooker

616

00:30:42,450 --> 00:30:45,930

was the guy who first worked at the mill

617

00:30:44,099 --> 00:30:48,089

and super chargers which is what the big

618

00:30:45,930 --> 00:30:50,519

leap in Spitfire performance and was

619

00:30:48,089 --> 00:30:52,019

from the was due to the the he's

620

00:30:50,519 --> 00:30:53,549

basically the first they had basically

621

00:30:52,019 --> 00:30:56,309

been winging it rolls-royce had been

622

00:30:53,549 --> 00:30:57,839

winging it with you know testing testing

623

00:30:56,309 --> 00:30:59,669

the results of the supersizers for the

624

00:30:57,839 --> 00:31:01,409

for the races in the Schneider trophy

625

00:30:59,670 --> 00:31:02,970

and not nothing much changed until he

626

00:31:01,410 --> 00:31:05,070

came on and he was a mathematician who

627

00:31:02,970 --> 00:31:07,200

was into fluid mechanics and all this

628  
00:31:05,069 --> 00:31:08,460  
sort of stuff and he just hidden it was

629  
00:31:07,200 --> 00:31:09,630  
it's a fantastic story when he just

630  
00:31:08,460 --> 00:31:11,069  
suddenly realizes that the people here

631  
00:31:09,630 --> 00:31:12,450  
are working on the supercharger which is

632  
00:31:11,069 --> 00:31:14,369  
something that he was a sort of world

633  
00:31:12,450 --> 00:31:15,900  
exports bird in and he went did some

634  
00:31:14,369 --> 00:31:17,489  
sums and came back a few weeks later and

635  
00:31:15,900 --> 00:31:19,560  
they they all of a sudden they moved

636  
00:31:17,490 --> 00:31:21,779  
from an art into a science because when

637  
00:31:19,559 --> 00:31:23,490  
they went to test the next supercharger

638  
00:31:21,779 --> 00:31:24,809  
set up for the Merlin it was perfect it

639  
00:31:23,490 --> 00:31:26,069  
came out to within a few you know one or

640  
00:31:24,809 --> 00:31:27,720  
two percent of what he predicted

641  
00:31:26,069 --> 00:31:29,429  
mathematically and it was where with the

642  
00:31:27,720 --> 00:31:31,440  
Mustang their great American aircraft be

643  
00:31:29,430 --> 00:31:32,759  
without the British Merlin engine it

644  
00:31:31,440 --> 00:31:35,430  
would have been flying with an allison

645  
00:31:32,759 --> 00:31:37,559  
injured at much lower level mmm and look

646  
00:31:35,430 --> 00:31:39,690  
what skeptically has tricked you in

647  
00:31:37,559 --> 00:31:41,599  
aviation lately is it it had been any

648  
00:31:39,690 --> 00:31:43,740  
incident as if in the black box

649  
00:31:41,599 --> 00:31:45,899  
incidents that are worth mentioning

650  
00:31:43,740 --> 00:31:47,849  
that's because I must remind you

651  
00:31:45,900 --> 00:31:50,280  
listening to that Roman he does read the

652  
00:31:47,849 --> 00:31:51,509  
black box literature I do read from that

653  
00:31:50,279 --> 00:31:53,549  
side although unfortunately they've just

654  
00:31:51,509 --> 00:31:55,740  
the crash comics released but I'm

655  
00:31:53,549 --> 00:31:57,269  
released in australia have have just

656

00:31:55,740 --> 00:31:58,559  
gone into electronic only format which

657  
00:31:57,269 --> 00:32:00,329  
is very sad because it used we have to

658  
00:31:58,559 --> 00:32:02,099  
use of aviation safety digest and then

659  
00:32:00,329 --> 00:32:04,109  
aviation safety it's now no longer in

660  
00:32:02,099 --> 00:32:05,339  
print so i suppose it's the way of the

661  
00:32:04,109 --> 00:32:06,569  
world and so i get the emails but i

662  
00:32:05,339 --> 00:32:08,279  
don't get to read them as often any

663  
00:32:06,569 --> 00:32:11,069  
incidents worthy of note are the

664  
00:32:08,279 --> 00:32:13,920  
annoying things for me at them with my

665  
00:32:11,069 --> 00:32:16,649  
head in the UAV lander that UAV landing

666  
00:32:13,920 --> 00:32:19,500  
on the on the harbour bridge south pylon

667  
00:32:16,650 --> 00:32:21,990  
just before the fleet came in and also a

668  
00:32:19,500 --> 00:32:23,490  
few people being killed by lloyd killed

669  
00:32:21,990 --> 00:32:25,829  
by radio controlled helicopters and

670  
00:32:23,490 --> 00:32:27,420

stuff over in the u.s. recently this is

671

00:32:25,829 --> 00:32:29,579

either helical they fell out of the sky

672

00:32:27,420 --> 00:32:31,500

onto them and these generally they

673

00:32:29,579 --> 00:32:33,899

intended to be people who are operating

674

00:32:31,500 --> 00:32:35,339

a helicopter very close to other two

675

00:32:33,900 --> 00:32:36,960

bystanders and other people and managed

676

00:32:35,339 --> 00:32:38,819

including a really horrible situation

677

00:32:36,960 --> 00:32:40,860

where baby was killed by remote control

678

00:32:38,819 --> 00:32:42,659

helicopter now i believe that that is

679

00:32:40,859 --> 00:32:44,849

illegal in this country wouldn't that be

680

00:32:42,660 --> 00:32:47,790

illegal in America as well um yeah it is

681

00:32:44,849 --> 00:32:50,339

if it's just I think what's happening at

682

00:32:47,789 --> 00:32:51,480

the moment is it's do you the copters

683

00:32:50,339 --> 00:32:52,379

and things I suppose since I've got a

684

00:32:51,480 --> 00:32:53,730

bit of an audience the moment just

685  
00:32:52,380 --> 00:32:54,400  
please be very sensible if you're going

686  
00:32:53,730 --> 00:32:55,720  
out there and buy

687  
00:32:54,400 --> 00:32:57,519  
I in one of these clods at the moment

688  
00:32:55,720 --> 00:32:59,350  
they are just think of it as are like a

689  
00:32:57,519 --> 00:33:01,509  
little flying lawnmower or a whipper

690  
00:32:59,349 --> 00:33:03,849  
snipper you know with I mean people do

691  
00:33:01,509 --> 00:33:05,230  
get injured by them and you have to when

692  
00:33:03,849 --> 00:33:06,699  
you even though they're a toy you have

693  
00:33:05,230 --> 00:33:08,470  
to start thinking of them the same way

694  
00:33:06,700 --> 00:33:09,640  
pilots think about operating real planes

695  
00:33:08,470 --> 00:33:11,440  
you there is a potential to actually

696  
00:33:09,640 --> 00:33:13,180  
really hurt or killed in a good sign

697  
00:33:11,440 --> 00:33:14,830  
because people put camera mounts on them

698  
00:33:13,180 --> 00:33:15,880  
and fly them over surfing beaches and

699  
00:33:14,829 --> 00:33:17,889  
things like that which is reasonably

700  
00:33:15,880 --> 00:33:19,540  
okay but once you is it is over any

701  
00:33:17,890 --> 00:33:21,250  
people or over a certain crowd you

702  
00:33:19,539 --> 00:33:22,659  
aren't allowed the fighting over oh well

703  
00:33:21,250 --> 00:33:24,940  
there's actually rules I should actually

704  
00:33:22,660 --> 00:33:27,550  
know these the model I think it's within

705  
00:33:24,940 --> 00:33:28,930  
something like 30 model aircraft they

706  
00:33:27,549 --> 00:33:31,779  
have standards these aren't actually

707  
00:33:28,930 --> 00:33:33,820  
casa rules these are what the Australian

708  
00:33:31,779 --> 00:33:35,889  
model aircraft association forgotten the

709  
00:33:33,819 --> 00:33:39,629  
exact acronym that's what their general

710  
00:33:35,890 --> 00:33:42,280  
was about 30 30 meters from a crowd and

711  
00:33:39,630 --> 00:33:43,600  
nine meters there's another 9 meter rule

712  
00:33:42,279 --> 00:33:45,039  
i think for hovering for hovering

713

00:33:43,599 --> 00:33:46,569  
helicopters especially just to give

714  
00:33:45,039 --> 00:33:49,119  
everybody a chance to run if something

715  
00:33:46,569 --> 00:33:50,919  
goes seriously wrong and you know and

716  
00:33:49,119 --> 00:33:52,449  
you do have these quite powerful i mean

717  
00:33:50,920 --> 00:33:53,650  
some people you know electric engines

718  
00:33:52,450 --> 00:33:55,630  
all that's not for example but they are

719  
00:33:53,650 --> 00:33:56,920  
very powerful engines look if some of

720  
00:33:55,630 --> 00:33:58,690  
them have a digital single-lens reflex

721  
00:33:56,920 --> 00:34:00,009  
camera on them if you had that even a

722  
00:33:58,690 --> 00:34:01,180  
plastic one dropped from a height of 9

723  
00:34:00,009 --> 00:34:03,009  
meters it's going to hit you on the

724  
00:34:01,180 --> 00:34:04,750  
scone pretty hard yeah yeah there is

725  
00:34:03,009 --> 00:34:06,099  
that thing but I think the main sort of

726  
00:34:04,750 --> 00:34:08,079  
dammit damaged people getting has been

727  
00:34:06,099 --> 00:34:09,909

actual damage from rotors and props okay

728

00:34:08,079 --> 00:34:12,519

so stay away from small plastic props

729

00:34:09,909 --> 00:34:14,140

just be sensible when the toys are

730

00:34:12,519 --> 00:34:16,449

powered by very powerful electric motors

731

00:34:14,139 --> 00:34:20,199

and then what's been your takeaway

732

00:34:16,449 --> 00:34:23,079

message from skip de camp 2013 I'm just

733

00:34:20,199 --> 00:34:24,369

incredibly proud of Allison Gaylord and

734

00:34:23,079 --> 00:34:27,398

the work that they've been doing up at

735

00:34:24,369 --> 00:34:29,559

the northern rivers with the the pro

736

00:34:27,398 --> 00:34:31,539

vaccination work they're doing up there

737

00:34:29,559 --> 00:34:32,829

she's a fantastically good person and

738

00:34:31,539 --> 00:34:36,579

brain this has made me think about

739

00:34:32,829 --> 00:34:38,469

getting a pertussis vaccine from a shot

740

00:34:36,579 --> 00:34:40,779

for myself and and I'm just wondering

741

00:34:38,469 --> 00:34:42,158

someone my age not always having contact

742  
00:34:40,780 --> 00:34:45,159  
with children is something I should get

743  
00:34:42,159 --> 00:34:47,800  
my understanding is yes I have to admit

744  
00:34:45,159 --> 00:34:49,090  
that I haven't myself and I you have

745  
00:34:47,800 --> 00:34:51,460  
reminded me that I should be thinking

746  
00:34:49,090 --> 00:34:52,840  
about doing that as well yeah yeah look

747  
00:34:51,460 --> 00:34:54,849  
maybe next year someone could come along

748  
00:34:52,840 --> 00:34:55,809  
and shoot up a couple of us yeah that we

749  
00:34:54,849 --> 00:34:57,250  
could do we could all shouldn't be out

750  
00:34:55,809 --> 00:34:58,869  
here and just sitting in the corridor

751  
00:34:57,250 --> 00:35:01,599  
you know leaning against the wall and

752  
00:34:58,869 --> 00:35:04,460  
groaning holding our own oh

753  
00:35:01,599 --> 00:35:06,609  
it's not saturday night yet bro I just I

754  
00:35:04,460 --> 00:35:09,079  
just gave me an image is rather amusing

755  
00:35:06,608 --> 00:35:11,119  
we'll see you next year cheese made up

756  
00:35:09,079 --> 00:35:13,778  
that's how avian chorus hey la vie in

757  
00:35:11,119 --> 00:35:13,778  
chorus but about

758  
00:35:23,659 --> 00:35:27,259  
jin shan so

759  
00:35:27,739 --> 00:35:33,179  
but guess yours is an award-winning

760  
00:35:30,179 --> 00:35:36,059  
weekly science show in French hosted by

761  
00:35:33,179 --> 00:35:38,338  
a bunch of crazy enthusiasts we are

762  
00:35:36,059 --> 00:35:40,679  
convinced that the greatest ideas in

763  
00:35:38,338 --> 00:35:42,929  
science are quite easy to grasp as long

764  
00:35:40,679 --> 00:35:45,480  
as they are presented with passion using

765  
00:35:42,929 --> 00:35:47,730  
a vocabulary common to all curious minds

766  
00:35:45,480 --> 00:35:50,460  
whatever their academic background if

767  
00:35:47,730 --> 00:35:53,460  
any you don't understand French yet I

768  
00:35:50,460 --> 00:35:55,349  
it's never too late all our stories have

769  
00:35:53,460 --> 00:35:57,150  
a written transcript on the website and

770

00:35:55,349 --> 00:35:59,250  
people from all around the world are

771  
00:35:57,150 --> 00:36:02,338  
using our content to learn Maria's

772  
00:35:59,250 --> 00:36:04,800  
language our topics range from 0 to

773  
00:36:02,338 --> 00:36:07,139  
infinity from evolution to artificial

774  
00:36:04,800 --> 00:36:09,780  
life from electromagnetism to the

775  
00:36:07,139 --> 00:36:12,989  
science of introverts we just love

776  
00:36:09,780 --> 00:36:15,780  
mathematics science critical thinking so

777  
00:36:12,989 --> 00:36:17,489  
do you want to join you can subscribe to

778  
00:36:15,780 --> 00:36:20,160  
the podcast for free from our website

779  
00:36:17,489 --> 00:36:22,828  
podcast science stocks FM that's in one

780  
00:36:20,159 --> 00:36:25,230  
word you also find us on itunes and

781  
00:36:22,829 --> 00:36:27,210  
soundcloud see you soon hopefully a

782  
00:36:25,230 --> 00:36:28,740  
delivers a career at the others or

783  
00:36:27,210 --> 00:36:31,340  
pedestrians

784  
00:36:28,739 --> 00:36:31,339

whoa

785

00:36:32,048 --> 00:36:34,768

nah

786

00:36:47,750 --> 00:36:54,289

thank you for listening to the skeptic

787

00:36:49,820 --> 00:36:59,030

zone well I wonder the endless pathways

788

00:36:54,289 --> 00:37:01,759

of mind body spirit mind body wallet

789

00:36:59,030 --> 00:37:05,090

hello free pasta check why don't we know

790

00:37:01,760 --> 00:37:08,450

what that is and thank you again to

791

00:37:05,090 --> 00:37:11,090

those people who chip in and contribute

792

00:37:08,449 --> 00:37:13,639

in fact we've paid now for maynards

793

00:37:11,090 --> 00:37:15,980

hotel room and his breakfast how good is

794

00:37:13,639 --> 00:37:19,069

that some very generous donations came

795

00:37:15,980 --> 00:37:21,740

in and also if you check out skipping

796

00:37:19,070 --> 00:37:23,450

zone TV you'll see up for bid to help

797

00:37:21,739 --> 00:37:25,039

the skipping zone is a poster signed by

798

00:37:23,449 --> 00:37:28,210

all sorts of famous skeptics including

799  
00:37:25,039 --> 00:37:32,480  
james randi DJ Grothe michael shermer

800  
00:37:28,210 --> 00:37:36,220  
Eugenie Scott myself Maynard lots of

801  
00:37:32,480 --> 00:37:36,219  
people check it out up for bid

802  
00:37:37,849 --> 00:37:43,429  
something you might want for your

803  
00:37:39,440 --> 00:37:45,889  
collection I want to follow if I make it

804  
00:37:43,429 --> 00:37:47,659  
out of here but for this week this is

805  
00:37:45,889 --> 00:37:49,940  
Richard saunas signing off from the mind

806  
00:37:47,659 --> 00:37:57,289  
buddy wallet festival at darling harbour

807  
00:37:49,940 --> 00:38:01,480  
Sydney Australia you've been listening

808  
00:37:57,289 --> 00:38:06,170  
to the skeptic zone visit our website at

809  
00:38:01,480 --> 00:38:10,030  
www skeptics on TV for comments contacts

810  
00:38:06,170 --> 00:38:10,030  
and extra video reports

811  
00:38:12,969 --> 00:38:15,000  
Oh