

1
00:00:05,929 --> 00:00:13,699
welcome to the skeptic zone the podcast

2
00:00:09,119 --> 00:00:13,699
from Australia for science and reason

3
00:00:27,170 --> 00:00:34,920
hello from pier 39 in San Francisco and

4
00:00:31,050 --> 00:00:36,840
welcome to episode number 171 of the

5
00:00:34,920 --> 00:00:41,010
skeptics earn Richard Saunders here with

6
00:00:36,840 --> 00:00:44,640
you gazing out on about 30 or 40

7
00:00:41,009 --> 00:00:48,509
floating pants pontoons half of them

8
00:00:44,640 --> 00:00:50,489
filled up with sea lions it's quite the

9
00:00:48,509 --> 00:00:53,429
tourist attraction here in downtown San

10
00:00:50,488 --> 00:00:59,009
Francisco it's a beautifully sunny warm

11
00:00:53,429 --> 00:01:03,269
winters day that's a school children

12
00:00:59,009 --> 00:01:05,179
around being amused by the sea lions who

13
00:01:03,270 --> 00:01:07,100
are

14
00:01:05,180 --> 00:01:10,700
probably involved in some deep

15
00:01:07,099 --> 00:01:12,319
philosophical argument right now but

16
00:01:10,700 --> 00:01:14,930
coming up on today's skeptic zone we

17
00:01:12,319 --> 00:01:17,959
have a special episode with the Eugenie

18
00:01:14,930 --> 00:01:19,910
Scott doctor Eugenie Scott and a tour of

19
00:01:17,959 --> 00:01:22,759
the National Center for Science

20
00:01:19,909 --> 00:01:25,090
Education in Oakland which is not too

21
00:01:22,760 --> 00:01:28,310
far away from where i am at the moment

22
00:01:25,090 --> 00:01:29,900
now Jeannie Scott in the National Center

23
00:01:28,310 --> 00:01:33,409
for Science Education have taken a big

24
00:01:29,900 --> 00:01:36,440
leap very recently they've decided to

25
00:01:33,409 --> 00:01:42,379
aid and support teachers in their

26
00:01:36,439 --> 00:01:46,189
endeavors to UM teach climate change the

27
00:01:42,379 --> 00:01:48,829
science behind climate change what has

28
00:01:46,189 --> 00:01:50,769
she gotten herself into will let her

29

00:01:48,829 --> 00:01:54,709
explain coming up at the top of the show

30
00:01:50,769 --> 00:01:56,719
and after the break GD scott takes us on

31
00:01:54,709 --> 00:01:59,239
a tour of the National Center for

32
00:01:56,719 --> 00:02:02,659
Science Education sort of behind the

33
00:01:59,239 --> 00:02:05,359
scenes look at the facility itself then

34
00:02:02,659 --> 00:02:08,449
to wrap up the show our very own dr.

35
00:02:05,359 --> 00:02:10,310
rachy dr. Rachel Dunlop just the other

36
00:02:08,449 --> 00:02:12,619
day was on national television in

37
00:02:10,310 --> 00:02:15,140
Australia on the show called the project

38
00:02:12,620 --> 00:02:17,799
which is on the Ten Network and she was

39
00:02:15,139 --> 00:02:20,449
a special guest on there to chat about

40
00:02:17,799 --> 00:02:23,390
conspiracy theories well done and

41
00:02:20,449 --> 00:02:27,459
congratulations to dr. he4 appearing on

42
00:02:23,389 --> 00:02:27,458
primetime national television

43
00:02:29,479 --> 00:02:36,149

well as the school children running

44

00:02:33,599 --> 00:02:41,219

around me like crazy in the sea lions

45

00:02:36,150 --> 00:02:43,670

are just basking in the sunshine talking

46

00:02:41,219 --> 00:02:48,120

to some seagulls over there I'm gonna

47

00:02:43,669 --> 00:02:51,569

walk down to the next pier along grab

48

00:02:48,120 --> 00:02:55,319

myself a lovely bowl of clam chowder and

49

00:02:51,569 --> 00:02:57,180

sourdough a so doable oh I love it

50

00:02:55,319 --> 00:02:59,699

whenever I'm here I have a nice root

51

00:02:57,180 --> 00:03:01,879

beer and I'll let you enjoy the skeptic

52

00:02:59,699 --> 00:03:01,879

zone

53

00:03:20,539 --> 00:03:25,620

well as promised listeners once again

54

00:03:23,550 --> 00:03:28,320

I've made my way here to Oakland and

55

00:03:25,620 --> 00:03:30,270

California to visit the National Center

56

00:03:28,319 --> 00:03:32,099

science education to speak to my dear

57

00:03:30,270 --> 00:03:33,930

friend Jeannie Scott hello Jeanie hi

58
00:03:32,099 --> 00:03:36,870
it's so good to see you again thank you

59
00:03:33,930 --> 00:03:39,390
here we are back again in your office we

60
00:03:36,870 --> 00:03:41,610
must think now they have been here four

61
00:03:39,389 --> 00:03:45,179
or five times over the years to catch up

62
00:03:41,610 --> 00:03:48,000
and discount who's counting and it's

63
00:03:45,180 --> 00:03:49,830
always a pleasure to come and see what's

64
00:03:48,000 --> 00:03:52,080
changed and what's new and I always ask

65
00:03:49,830 --> 00:03:54,090
you the same questions so I'll start

66
00:03:52,080 --> 00:03:56,850
with this the question I always ask you

67
00:03:54,090 --> 00:03:58,530
since we've lost had a good chat which

68
00:03:56,849 --> 00:04:00,989
is about a year ago when I came to visit

69
00:03:58,530 --> 00:04:03,830
what have been the big developments here

70
00:04:00,990 --> 00:04:06,510
the Center for Science Education the

71
00:04:03,830 --> 00:04:10,770
really big development and the thing

72
00:04:06,509 --> 00:04:15,509
that is we are very excited about and a

73
00:04:10,770 --> 00:04:18,870
little nervous about is that we have

74
00:04:15,509 --> 00:04:21,089
decided that just as teachers have

75
00:04:18,870 --> 00:04:24,120
problems with the teaching of evolution

76
00:04:21,089 --> 00:04:27,329
and need some support some advice some

77
00:04:24,120 --> 00:04:29,610
help so also we are discovering they are

78
00:04:27,329 --> 00:04:32,879
having problems with teaching global

79
00:04:29,610 --> 00:04:35,310
warming and climate change and similarly

80
00:04:32,879 --> 00:04:38,569
need that kind of support advice and

81
00:04:35,310 --> 00:04:43,850
help to continue teaching good science

82
00:04:38,569 --> 00:04:46,110
we see more and more examples of

83
00:04:43,850 --> 00:04:48,300
legislation being proposed that would

84
00:04:46,110 --> 00:04:51,000
affect compromise the teaching of

85
00:04:48,300 --> 00:04:54,090
climate change we get more reports from

86

00:04:51,000 --> 00:04:56,329
individual teachers about students

87
00:04:54,089 --> 00:04:59,789
getting up and walking out of class or

88
00:04:56,329 --> 00:05:01,889
students parents showing up saying

89
00:04:59,790 --> 00:05:03,270
you're not going to teach my kid that

90
00:05:01,889 --> 00:05:05,879
the climate is getting warmer are you

91
00:05:03,269 --> 00:05:08,939
that this is a liberal plot somehow and

92
00:05:05,879 --> 00:05:13,139
on and on so teachers are being faced

93
00:05:08,939 --> 00:05:16,079
with what is really a political or an

94
00:05:13,139 --> 00:05:18,269
ideological pressure against the

95
00:05:16,079 --> 00:05:20,490
teaching of climate change much as they

96
00:05:18,269 --> 00:05:22,439
have over the years been faced with the

97
00:05:20,490 --> 00:05:24,480
political ideological if you will

98
00:05:22,439 --> 00:05:28,310
pressure against the teaching of

99
00:05:24,480 --> 00:05:31,099
evolution wow wow this is a topic I

100
00:05:28,310 --> 00:05:34,110

what's the term

101

00:05:31,098 --> 00:05:36,329

fools rush in where angels fear to tread

102

00:05:34,110 --> 00:05:38,970

this is this is one of the topics of the

103

00:05:36,329 --> 00:05:41,668

fool that is I you know I sell them

104

00:05:38,970 --> 00:05:43,530

cover this on the skeptic zone it occurs

105

00:05:41,668 --> 00:05:45,810

to me that in the past and your

106

00:05:43,529 --> 00:05:49,579

continued fighting battle against the

107

00:05:45,810 --> 00:05:53,370

forces of creationism and so on largely

108

00:05:49,579 --> 00:05:56,459

religiously based now you're tackling

109

00:05:53,370 --> 00:05:59,550

something which is a bit broader I think

110

00:05:56,459 --> 00:06:03,959

people people tend to just simply decide

111

00:05:59,550 --> 00:06:06,060

that the world is not warming us or the

112

00:06:03,959 --> 00:06:08,629

science must be wrong rather than coming

113

00:06:06,060 --> 00:06:11,129

from a religious background it's not

114

00:06:08,629 --> 00:06:16,079

you're completely correct there there

115
00:06:11,129 --> 00:06:19,019
are not there are not total parallels

116
00:06:16,079 --> 00:06:21,448
between the two problems that you know

117
00:06:19,019 --> 00:06:22,740
the teachers are facing let me

118
00:06:21,449 --> 00:06:24,240
underscore first that there is a

119
00:06:22,740 --> 00:06:25,800
difference between what we do here and

120
00:06:24,240 --> 00:06:27,120
what you do I mean you are looking at

121
00:06:25,800 --> 00:06:30,720
skepticism you're looking at

122
00:06:27,120 --> 00:06:32,848
pseudoscience and our overlap in terms

123
00:06:30,720 --> 00:06:34,860
of you what you do in your podcast and

124
00:06:32,848 --> 00:06:36,658
then CSC is creationism as a

125
00:06:34,860 --> 00:06:39,000
pseudoscience and that what got us

126
00:06:36,658 --> 00:06:42,000
talking originally years ago what we do

127
00:06:39,000 --> 00:06:44,968
here is we really look at science

128
00:06:42,000 --> 00:06:46,800
education and the creationism a problem

129
00:06:44,968 --> 00:06:49,468
is an issue for science education just

130
00:06:46,800 --> 00:06:51,538
like it's an interest to skepticism and

131
00:06:49,468 --> 00:06:53,459
when I'm wearing my Bay Area skeptics

132
00:06:51,538 --> 00:06:57,529
have them you know we we are very

133
00:06:53,459 --> 00:07:02,989
interested in that as well one parallel

134
00:06:57,529 --> 00:07:05,728
between climate science education and

135
00:07:02,990 --> 00:07:08,728
evolution education is that the

136
00:07:05,728 --> 00:07:11,728
opposition to either of these topics

137
00:07:08,728 --> 00:07:14,158
comes from an ideology but it's a

138
00:07:11,728 --> 00:07:16,318
different ideology the opposition to

139
00:07:14,158 --> 00:07:18,329
evolution is a religious ideology

140
00:07:16,319 --> 00:07:20,460
generally it's conservative Christians

141
00:07:18,329 --> 00:07:25,219
although they're in Europe there's much

142
00:07:20,459 --> 00:07:28,789
more pushback from Muslims in

143

00:07:25,220 --> 00:07:32,390
in Israel the pushback comes from the

144
00:07:28,790 --> 00:07:36,560
super Orthodox Rogers so no ironic yeah

145
00:07:32,389 --> 00:07:39,500
right so there you have it opposition to

146
00:07:36,560 --> 00:07:41,629
teaching evolution comes almost one

147
00:07:39,500 --> 00:07:44,089
hundred percent from religious

148
00:07:41,629 --> 00:07:45,319
ideologies that don't accept it of

149
00:07:44,089 --> 00:07:46,789
course there plenty of religious

150
00:07:45,319 --> 00:07:48,579
ideologies that do but you know the

151
00:07:46,790 --> 00:07:50,990
opposition comes from those who don't

152
00:07:48,579 --> 00:07:54,649
when it comes to the teaching of climate

153
00:07:50,990 --> 00:07:57,680
change it also is motivated by ideology

154
00:07:54,649 --> 00:08:00,669
but a different ideology in the United

155
00:07:57,680 --> 00:08:04,490
States where you have perhaps the

156
00:08:00,670 --> 00:08:07,480
strongest expression of anti global

157
00:08:04,490 --> 00:08:12,050

warming the ideology that the primary

158

00:08:07,480 --> 00:08:14,300

ideology ISM is an anti big government

159

00:08:12,050 --> 00:08:16,970

it's a political ideology it's people

160

00:08:14,300 --> 00:08:19,970

who believe that global warming is bad

161

00:08:16,970 --> 00:08:22,250

science that is only being promoted by

162

00:08:19,970 --> 00:08:24,830

political liberals who are trying to

163

00:08:22,250 --> 00:08:26,689

build the government who are trying to

164

00:08:24,829 --> 00:08:28,370

take away individual American freedoms

165

00:08:26,689 --> 00:08:30,610

and of course individual freedom is a

166

00:08:28,370 --> 00:08:34,460

real important part of the American

167

00:08:30,610 --> 00:08:36,529

story about themselves and that somehow

168

00:08:34,460 --> 00:08:39,349

this all gets mixed up with liberal

169

00:08:36,529 --> 00:08:41,629

conservative political views there's

170

00:08:39,349 --> 00:08:44,150

another component to the anti global

171

00:08:41,629 --> 00:08:48,259

warming movement and that is an economic

172
00:08:44,149 --> 00:08:52,809
ideology which you tend to find among

173
00:08:48,259 --> 00:08:54,769
libertarians and others of a what one

174
00:08:52,809 --> 00:08:57,259
scholar is called free-market

175
00:08:54,769 --> 00:08:59,449
fundamentalism those who believe that

176
00:08:57,259 --> 00:09:01,309
the free market will solve all problems

177
00:08:59,450 --> 00:09:03,470
economically and that anything that

178
00:09:01,309 --> 00:09:06,799
appears to fetter the free markets such

179
00:09:03,470 --> 00:09:10,460
as cap and trade or carbon tax or

180
00:09:06,799 --> 00:09:15,259
something that in some way is viewed as

181
00:09:10,460 --> 00:09:18,889
restricting the ability of the energy

182
00:09:15,259 --> 00:09:20,720
producers the carbon coal gas etc to to

183
00:09:18,889 --> 00:09:23,210
perform their you know business

184
00:09:20,720 --> 00:09:27,680
decisions that this is bad and this

185
00:09:23,210 --> 00:09:33,019
should be opposed so the global warming

186
00:09:27,679 --> 00:09:35,359
is viewed as a push by those who are

187
00:09:33,019 --> 00:09:37,129
anti capitalist who want to increase

188
00:09:35,360 --> 00:09:37,620
socialism so you can see how this kind

189
00:09:37,129 --> 00:09:39,179
of gets

190
00:09:37,620 --> 00:09:42,389
right up with the conservative political

191
00:09:39,179 --> 00:09:44,069
ideology it's it's some good fertile

192
00:09:42,389 --> 00:09:47,970
ground for conspiracy theory too isn't

193
00:09:44,070 --> 00:09:50,910
it Oh quite right so you know from the

194
00:09:47,970 --> 00:09:53,430
skeptic standpoint there may not be that

195
00:09:50,909 --> 00:09:58,350
much of a link with anti global warming

196
00:09:53,429 --> 00:10:00,269
because what maybe to the extent I mean

197
00:09:58,350 --> 00:10:02,940
that the parallels that we see at NCSE

198
00:10:00,269 --> 00:10:05,960
is that an ideological view is

199
00:10:02,940 --> 00:10:09,690
motivating an anti-science view

200

00:10:05,960 --> 00:10:12,089
evolution and global warming our

201
00:10:09,690 --> 00:10:14,010
position is that what teachers should be

202
00:10:12,089 --> 00:10:17,250
focusing on is what is the consensus

203
00:10:14,009 --> 00:10:20,370
view of science what is is the majority

204
00:10:17,250 --> 00:10:22,830
of scientists proposing as the best

205
00:10:20,370 --> 00:10:26,669
explanation at this time and place and

206
00:10:22,830 --> 00:10:28,139
its evolution and it is that the planet

207
00:10:26,669 --> 00:10:31,110
is getting warmer and that people have

208
00:10:28,139 --> 00:10:35,269
important responsibility in this now if

209
00:10:31,110 --> 00:10:38,460
and when those two consensus change

210
00:10:35,269 --> 00:10:41,009
then teachers will should change what

211
00:10:38,460 --> 00:10:43,560
they're teaching evolution is very very

212
00:10:41,009 --> 00:10:46,019
very very solid I mean we don't

213
00:10:43,559 --> 00:10:47,669
anticipate that the idea that living

214
00:10:46,019 --> 00:10:49,319

things are common ancestors the universe

215

00:10:47,669 --> 00:10:50,939

is very ancient the plan has been moving

216

00:10:49,320 --> 00:10:52,890

you know I don't think that's going to

217

00:10:50,940 --> 00:10:55,260

change if it does will change what we

218

00:10:52,889 --> 00:10:58,500

teach that job in the case of global

219

00:10:55,259 --> 00:11:02,879

warming most Americans are not as aware

220

00:10:58,500 --> 00:11:05,850

of how solid the scientific consensus is

221

00:11:02,879 --> 00:11:10,439

around this when climate scientists are

222

00:11:05,850 --> 00:11:12,959

pulled you find high ninety percent 97

223

00:11:10,440 --> 00:11:16,620

96 percent of climate scientists saying

224

00:11:12,958 --> 00:11:19,309

yes the planet is warming a good deal of

225

00:11:16,620 --> 00:11:22,169

it is anthropogenic or human influenced

226

00:11:19,309 --> 00:11:24,269

there's arguments about how much but

227

00:11:22,169 --> 00:11:27,750

climate scientists are pretty uniform

228

00:11:24,269 --> 00:11:30,360

that it's substantial yeah and if you

229
00:11:27,750 --> 00:11:32,309
pull scientists in general you find

230
00:11:30,360 --> 00:11:34,528
again maybe not quite that high

231
00:11:32,309 --> 00:11:37,708
percentage as among climate scientists

232
00:11:34,528 --> 00:11:40,110
but at least in the 90s of scientists

233
00:11:37,708 --> 00:11:41,699
pulled as a whole agree the planet is

234
00:11:40,110 --> 00:11:44,459
getting warmer and that people have a

235
00:11:41,700 --> 00:11:46,259
lot to do with that so that is the

236
00:11:44,458 --> 00:11:48,328
current scientific consensus that is

237
00:11:46,259 --> 00:11:49,778
what we think teachers should teach what

238
00:11:48,328 --> 00:11:53,198
we oppose is the ID

239
00:11:49,778 --> 00:11:55,649
that teachers should somehow shape their

240
00:11:53,198 --> 00:11:58,059
teaching because of ideological pressure

241
00:11:55,649 --> 00:12:00,818
that is the parallel we see between

242
00:11:58,059 --> 00:12:03,338
anti-evolution and anti climate change

243
00:12:00,818 --> 00:12:04,899
and that is that growing realization

244
00:12:03,339 --> 00:12:06,370
which we studied for about a year and

245
00:12:04,899 --> 00:12:08,980
really thought carefully about this

246
00:12:06,370 --> 00:12:11,919
ready to do that realization is what led

247
00:12:08,980 --> 00:12:14,649
us to decide okay we need to take the

248
00:12:11,919 --> 00:12:16,708
Sun teachers need help we have a lot of

249
00:12:14,649 --> 00:12:19,448
experience at NCIC and dealing with

250
00:12:16,708 --> 00:12:21,578
political promises i mean you know we're

251
00:12:19,448 --> 00:12:23,349
we're very good at helping you write a

252
00:12:21,578 --> 00:12:25,479
letter to the school board or helping

253
00:12:23,350 --> 00:12:27,490
you shape a presentation to the pool

254
00:12:25,480 --> 00:12:29,769
school board that will be effective or

255
00:12:27,490 --> 00:12:32,860
helping you craft an argument that will

256
00:12:29,769 --> 00:12:35,318
be effective with a decision maker a

257

00:12:32,860 --> 00:12:37,419
legislature or whatever and that is the

258
00:12:35,318 --> 00:12:39,669
help that we hope we can offer to

259
00:12:37,419 --> 00:12:42,688
teachers as they're wrestling with this

260
00:12:39,669 --> 00:12:44,979
new problem as climate change it just

261
00:12:42,688 --> 00:12:47,078
occurred to me just came across my mind

262
00:12:44,980 --> 00:12:48,670
as you're speaking the old phrase that

263
00:12:47,078 --> 00:12:51,698
they've been battling for years old

264
00:12:48,669 --> 00:12:55,808
evolution is just a theory of course and

265
00:12:51,698 --> 00:12:56,889
we know how flawed that is I just wonder

266
00:12:55,808 --> 00:12:59,558
how they're going to approach someone

267
00:12:56,889 --> 00:13:02,558
like you in this organization now coming

268
00:12:59,558 --> 00:13:04,659
in to bat for the status quo the

269
00:13:02,558 --> 00:13:07,389
consensus what the opposition are going

270
00:13:04,659 --> 00:13:09,129
to come up with to say Oh climate change

271
00:13:07,389 --> 00:13:10,959

is just a theory they're going to use

272

00:13:09,129 --> 00:13:13,329

that what do you think they will attack

273

00:13:10,958 --> 00:13:14,979

the science yeah they are attacking the

274

00:13:13,328 --> 00:13:17,558

science this is what we're learning is

275

00:13:14,980 --> 00:13:19,649

we're becoming more and more familiar

276

00:13:17,558 --> 00:13:23,469

with both the science as well as the

277

00:13:19,649 --> 00:13:27,308

denialist arguments against it that is

278

00:13:23,470 --> 00:13:33,160

of course a tried and true approach it

279

00:13:27,308 --> 00:13:37,269

was used by those who didn't believe

280

00:13:33,159 --> 00:13:39,808

that there should be changes made in the

281

00:13:37,269 --> 00:13:42,308

production of products that had

282

00:13:39,808 --> 00:13:45,719

chlorofluorocarbons when the ozone hole

283

00:13:42,308 --> 00:13:48,850

was revealed as you know a dangerous

284

00:13:45,720 --> 00:13:51,209

item at a dangerous phenomenon that was

285

00:13:48,850 --> 00:13:53,709

taking place back in the 80s and that

286
00:13:51,208 --> 00:13:57,278
chain you know restriction should be

287
00:13:53,708 --> 00:13:59,438
made on manufacturers of these of this

288
00:13:57,278 --> 00:14:00,269
chemical because it was contributing to

289
00:13:59,438 --> 00:14:03,539
a growth and the

290
00:14:00,269 --> 00:14:05,730
oh no well what was that the tried and

291
00:14:03,539 --> 00:14:07,829
true approaches you attack the science

292
00:14:05,730 --> 00:14:09,350
well the site the jury is still out

293
00:14:07,830 --> 00:14:11,520
we're not really sure whether

294
00:14:09,350 --> 00:14:13,170
chlorofluorocarbons really do produce

295
00:14:11,519 --> 00:14:16,079
this effect we shouldn't make any

296
00:14:13,169 --> 00:14:17,879
restrictions on the economy because

297
00:14:16,080 --> 00:14:19,950
people will you lose jobs and this is

298
00:14:17,879 --> 00:14:22,409
bad for capitalism etc the same old

299
00:14:19,950 --> 00:14:25,440
arguments it's a tried and true strategy

300
00:14:22,409 --> 00:14:28,919
for the tobacco companies when they

301
00:14:25,440 --> 00:14:32,220
denied that the consumption of smoke

302
00:14:28,919 --> 00:14:35,009
caused lung cancer and heart disease and

303
00:14:32,220 --> 00:14:37,230
other problems the jury is still out the

304
00:14:35,009 --> 00:14:39,059
science is still unsettled we have our

305
00:14:37,230 --> 00:14:40,740
scientists that say a you have your

306
00:14:39,059 --> 00:14:42,750
scientists that say be so therefore we

307
00:14:40,740 --> 00:14:45,029
shouldn't take any action yeah yeah

308
00:14:42,750 --> 00:14:46,799
exactly the same rule as long as they do

309
00:14:45,029 --> 00:14:48,089
a tabloid television back home

310
00:14:46,799 --> 00:14:50,729
especially they'll present too

311
00:14:48,090 --> 00:14:54,240
ridiculous sides of an argument and say

312
00:14:50,730 --> 00:14:55,710
well you decide what you've got some

313
00:14:54,240 --> 00:14:58,740
familiarity with that haven't you oh

314

00:14:55,710 --> 00:15:00,840
yeah yes indeedy so we'll which is

315
00:14:58,740 --> 00:15:04,049
absurd I mean you give people two

316
00:15:00,840 --> 00:15:05,850
cartoon versions of an argument tell

317
00:15:04,049 --> 00:15:07,829
them to the side and as if they could

318
00:15:05,850 --> 00:15:11,250
make an informed decision it's just

319
00:15:07,830 --> 00:15:13,950
ridiculous the the argument with tobacco

320
00:15:11,250 --> 00:15:16,169
and with the global excuse me with the

321
00:15:13,950 --> 00:15:19,050
ozone hole and other scientific quote

322
00:15:16,169 --> 00:15:21,299
controversies and of course currently

323
00:15:19,049 --> 00:15:24,349
with the problem with the global warming

324
00:15:21,299 --> 00:15:27,419
is that there is a scientific consensus

325
00:15:24,350 --> 00:15:29,310
there was fairly quickly a consensus

326
00:15:27,419 --> 00:15:32,549
among medical researchers that tobacco

327
00:15:29,309 --> 00:15:35,279
is bad for you yes okay and there is

328
00:15:32,549 --> 00:15:37,709

currently a consensus among scientists

329

00:15:35,279 --> 00:15:40,649

and especially climate scientists that

330

00:15:37,710 --> 00:15:43,170

global warming is occurring big chunk of

331

00:15:40,649 --> 00:15:45,779

it as anthropogenic and people need to

332

00:15:43,169 --> 00:15:48,750

know about this and there are actions

333

00:15:45,779 --> 00:15:52,110

that one might assume would the society

334

00:15:48,750 --> 00:15:54,629

would take as a result of this in order

335

00:15:52,110 --> 00:15:57,659

to stop these actions the claim is made

336

00:15:54,629 --> 00:15:59,580

by the anti global warming people that

337

00:15:57,659 --> 00:16:01,860

the science is still out we have our

338

00:15:59,580 --> 00:16:03,690

scientists we have this list of 30,000

339

00:16:01,860 --> 00:16:06,360

scientists which something else we can

340

00:16:03,690 --> 00:16:08,730

talk about which you know only goes to

341

00:16:06,360 --> 00:16:09,389

show that or we have these websites that

342

00:16:08,730 --> 00:16:12,629

are written

343
00:16:09,389 --> 00:16:14,399
I scientist you that show that the the

344
00:16:12,629 --> 00:16:17,009
science of global warming is not settled

345
00:16:14,399 --> 00:16:23,250
it's not a consensus we we shouldn't be

346
00:16:17,009 --> 00:16:28,409
taking action NCSE is a very small

347
00:16:23,250 --> 00:16:31,049
operation we don't take a position on

348
00:16:28,409 --> 00:16:34,069
policy issues we're not going to argue

349
00:16:31,049 --> 00:16:36,809
that you should go for a cap-and-trade

350
00:16:34,070 --> 00:16:38,910
versus carbon tax or carbon tax versus

351
00:16:36,809 --> 00:16:40,799
cap and trade or any other kind of

352
00:16:38,909 --> 00:16:43,259
specific policy issue we're not a policy

353
00:16:40,799 --> 00:16:44,759
institute we shouldn't venture where we

354
00:16:43,259 --> 00:16:47,100
don't have expertise this is a big issue

355
00:16:44,759 --> 00:16:49,980
in Australia well I know it's you yeah

356
00:16:47,100 --> 00:16:51,810
it's great and it's wonderful that your

357
00:16:49,980 --> 00:16:53,789
government is taking enough interest and

358
00:16:51,809 --> 00:16:55,139
accepts the fact that the planet is

359
00:16:53,789 --> 00:16:56,879
getting warmer we're not there yet

360
00:16:55,139 --> 00:17:00,269
you're way ahead of us in that regard

361
00:16:56,879 --> 00:17:02,309
but you know as a small non policy kind

362
00:17:00,269 --> 00:17:04,049
of institution we're going to focus on

363
00:17:02,309 --> 00:17:06,000
what we are good at what we are good at

364
00:17:04,049 --> 00:17:08,309
is helping teachers cope with these

365
00:17:06,000 --> 00:17:10,140
kinds of problems and we're not going to

366
00:17:08,309 --> 00:17:13,919
take any positions on what should be

367
00:17:10,140 --> 00:17:16,920
done about it although our basic foods

368
00:17:13,920 --> 00:17:18,990
positioned as a science organization

369
00:17:16,920 --> 00:17:21,959
really and most of my staff are

370
00:17:18,990 --> 00:17:24,990
scientists is that whatever decision

371

00:17:21,959 --> 00:17:27,000
society chooses to make about these very

372
00:17:24,990 --> 00:17:30,599
important issues should be firmly

373
00:17:27,000 --> 00:17:33,690
grounded in sound science that's the key

374
00:17:30,599 --> 00:17:36,389
that's the key just another thought that

375
00:17:33,690 --> 00:17:40,289
crossed my mind as we were chatting back

376
00:17:36,390 --> 00:17:43,380
home the the leading voices shall I say

377
00:17:40,289 --> 00:17:46,109
and for climate change denial seem to be

378
00:17:43,380 --> 00:17:48,690
right wing shock jocks not from anything

379
00:17:46,109 --> 00:17:50,929
else they'd like to bluster and yell on

380
00:17:48,690 --> 00:17:53,759
the radio and one of the most absurd

381
00:17:50,930 --> 00:17:55,500
arguments I've ever heard about about

382
00:17:53,759 --> 00:17:58,109
this whole situation is there'll be a

383
00:17:55,500 --> 00:17:59,700
cold day somewhere in Australia freezing

384
00:17:58,109 --> 00:18:02,279
conditions you know unusually cold and

385
00:17:59,700 --> 00:18:04,170

they'll use that safe what climate

386

00:18:02,279 --> 00:18:05,789

change look the Earth's getting cold are

387

00:18:04,170 --> 00:18:07,740

you crazy there's no climate change and

388

00:18:05,789 --> 00:18:10,109

it's just there there's no global

389

00:18:07,740 --> 00:18:12,150

warming because it's cold over here yeah

390

00:18:10,109 --> 00:18:15,750

and of course a couple years ago in this

391

00:18:12,150 --> 00:18:18,570

in Washington DC they had thigh-high

392

00:18:15,750 --> 00:18:21,029

snow yeah I mean this was phenomenal and

393

00:18:18,569 --> 00:18:21,700

of course there you go you see the case

394

00:18:21,029 --> 00:18:23,319

all the

395

00:18:21,700 --> 00:18:24,880

Global so what do you mean it's getting

396

00:18:23,319 --> 00:18:28,450

warmer look at all the snow that we

397

00:18:24,880 --> 00:18:31,389

haven't and of course one reason why

398

00:18:28,450 --> 00:18:32,889

many communicators started talking about

399

00:18:31,388 --> 00:18:35,168

climate change rather than global

400
00:18:32,888 --> 00:18:38,379
warming even though global warming is at

401
00:18:35,169 --> 00:18:40,720
the heart of the global climate changes

402
00:18:38,380 --> 00:18:43,630
that are taking place all over the the

403
00:18:40,720 --> 00:18:46,120
planet it's maybe less confusing to

404
00:18:43,630 --> 00:18:48,210
people to think about the climate

405
00:18:46,119 --> 00:18:51,219
changing rather than warming because

406
00:18:48,210 --> 00:18:53,288
we're getting more snow here or less you

407
00:18:51,220 --> 00:18:55,839
know or more cold here the fact of the

408
00:18:53,288 --> 00:18:57,519
matter is that the chunk of a climate is

409
00:18:55,839 --> 00:19:01,000
going to be intensified and patterns are

410
00:18:57,519 --> 00:19:02,829
going to change it yep salaam and we're

411
00:19:01,000 --> 00:19:05,048
not entirely sure exactly what's going

412
00:19:02,829 --> 00:19:07,599
to happen but we should expect more

413
00:19:05,048 --> 00:19:11,019
snows say the climatologist because as

414
00:19:07,599 --> 00:19:12,819
the planet warms the atmosphere holds

415
00:19:11,019 --> 00:19:15,960
more moisture which means we're going to

416
00:19:12,819 --> 00:19:18,759
get more rain more snow although not

417
00:19:15,960 --> 00:19:21,759
uniformly they're going to be because of

418
00:19:18,759 --> 00:19:24,009
changes in ocean temperature which is a

419
00:19:21,759 --> 00:19:26,769
very scary phenomenon I believe because

420
00:19:24,009 --> 00:19:29,190
of changes in ocean temperature currents

421
00:19:26,769 --> 00:19:32,558
are going to change and that means that

422
00:19:29,190 --> 00:19:34,298
places that I mean one very frightening

423
00:19:32,558 --> 00:19:36,038
possibility is that Northern Europe

424
00:19:34,298 --> 00:19:38,379
might get a heck of a lot colder than it

425
00:19:36,038 --> 00:19:40,269
is now if there are substantial changes

426
00:19:38,380 --> 00:19:45,549
in the Gulf Stream moving further south

427
00:19:40,269 --> 00:19:48,220
which may happen and of course the we do

428

00:19:45,548 --> 00:19:49,869
have measured we do have measurements

429
00:19:48,220 --> 00:19:52,028
showing that the ocean is getting warmer

430
00:19:49,869 --> 00:19:54,278
and the ocean is a huge driver of

431
00:19:52,028 --> 00:19:56,888
climate the whole discussion of la la

432
00:19:54,278 --> 00:19:58,778
nia El Nino and so forth that is

433
00:19:56,888 --> 00:20:00,219
basically having to do with oceanic

434
00:19:58,778 --> 00:20:03,220
temperatures and the changes that take

435
00:20:00,220 --> 00:20:07,058
place over over a period of a couple of

436
00:20:03,220 --> 00:20:08,919
years so we should expect the climate to

437
00:20:07,058 --> 00:20:12,490
change and it is going to have effects

438
00:20:08,919 --> 00:20:15,490
on the planet as a whole both land

439
00:20:12,490 --> 00:20:17,528
atmosphere and ocean and of course the

440
00:20:15,490 --> 00:20:20,710
fundamental root of this climate change

441
00:20:17,528 --> 00:20:23,019
which is the bigger picture is global

442
00:20:20,710 --> 00:20:27,340

warming because it is the warming of the

443

00:20:23,019 --> 00:20:32,278

planet as a whole because largely of the

444

00:20:27,339 --> 00:20:32,278

increased co2 and other

445

00:20:32,589 --> 00:20:37,970

warming gases shall we say that is

446

00:20:35,240 --> 00:20:39,829

getting into the atmosphere and creating

447

00:20:37,970 --> 00:20:42,019

this what sometimes referred to as the

448

00:20:39,829 --> 00:20:44,869

greenhouse effect but certainly it is

449

00:20:42,019 --> 00:20:46,849

increasing the amount of warmth that is

450

00:20:44,869 --> 00:20:48,859

being retained by the atmosphere it's

451

00:20:46,849 --> 00:20:51,428

not you know and of course you know I

452

00:20:48,859 --> 00:20:54,769

mean there's so many frightening and

453

00:20:51,429 --> 00:20:57,409

fascinating and one end things that are

454

00:20:54,769 --> 00:21:01,548

going on as the climate warms the polar

455

00:20:57,409 --> 00:21:03,320

ice caps reduce we're seeing this very

456

00:21:01,548 --> 00:21:06,558

clearly with the north with a northern

457
00:21:03,319 --> 00:21:09,619
ice cap and that in itself is going to

458
00:21:06,558 --> 00:21:13,668
increase the warming rate more quickly

459
00:21:09,619 --> 00:21:15,319
because some sunlight is not going to be

460
00:21:13,669 --> 00:21:19,730
reflected off the poles it's going to be

461
00:21:15,319 --> 00:21:22,009
absorbed by the by the darker Oceanics

462
00:21:19,730 --> 00:21:24,019
surface at there so there's lots and

463
00:21:22,009 --> 00:21:26,470
lots of things to be conscious about Wow

464
00:21:24,019 --> 00:21:29,298
Jeanie is if as if your mind wasn't

465
00:21:26,470 --> 00:21:31,100
completely chock-a-block full of what

466
00:21:29,298 --> 00:21:33,288
you've been concentrating on for them

467
00:21:31,099 --> 00:21:36,408
last many years now this whole other

468
00:21:33,288 --> 00:21:38,028
realm has come in and I can't even

469
00:21:36,409 --> 00:21:39,470
imagine the correspondence in the

470
00:21:38,028 --> 00:21:41,450
battles you're going to be entering into

471
00:21:39,470 --> 00:21:43,460
with this because I mean I've seen

472
00:21:41,450 --> 00:21:45,409
people who are passionate on about

473
00:21:43,460 --> 00:21:49,100
creationism and we both have of course

474
00:21:45,409 --> 00:21:52,490
but the passion that is stirred for on

475
00:21:49,099 --> 00:21:54,740
this issue is in all my years and it

476
00:21:52,490 --> 00:21:58,429
does generate the most passion I've seen

477
00:21:54,740 --> 00:21:59,839
I've been I gave a talk once and in the

478
00:21:58,429 --> 00:22:02,740
questions and answers i talked about

479
00:21:59,839 --> 00:22:06,138
general skepticism paranormal stuff and

480
00:22:02,740 --> 00:22:08,269
someone in the audience demanded to know

481
00:22:06,138 --> 00:22:09,829
my views on the carbon tax and climate

482
00:22:08,269 --> 00:22:11,359
change it I said look I'm sorry I'm not

483
00:22:09,829 --> 00:22:13,819
here to talk about that and he was

484
00:22:11,359 --> 00:22:16,069
offended and I wouldn't even talk about

485

00:22:13,819 --> 00:22:18,439
the subject so I which was not even

486
00:22:16,069 --> 00:22:20,089
relevant to the touch was exactly but I

487
00:22:18,440 --> 00:22:21,769
was a skeptic you see all you must be

488
00:22:20,089 --> 00:22:23,148
and this is a big issue our Australia as

489
00:22:21,769 --> 00:22:25,220
you point out what is a big issue in

490
00:22:23,148 --> 00:22:27,768
Australia well let's take a break from

491
00:22:25,220 --> 00:22:30,440
that genie let's let's have a little

492
00:22:27,769 --> 00:22:32,659
wander around the National Center for

493
00:22:30,440 --> 00:22:35,659
Science Education here poke around some

494
00:22:32,659 --> 00:22:37,940
of the rooms very good and I would also

495
00:22:35,659 --> 00:22:40,850
want to introduce you to my new staff

496
00:22:37,940 --> 00:22:42,009
member mark McCaffrey who is a climate

497
00:22:40,849 --> 00:22:43,990
scientist

498
00:22:42,009 --> 00:22:47,490
and a specialist in climate science

499
00:22:43,990 --> 00:22:50,440

education and he is going to be our

500

00:22:47,490 --> 00:22:54,880

strong right arm here dealing with this

501

00:22:50,440 --> 00:22:56,920

issue oui oui as you say we've spent 25

502

00:22:54,880 --> 00:22:59,460

plus years talking about evolution at

503

00:22:56,920 --> 00:23:01,720

NCSE and most of us on staff are

504

00:22:59,460 --> 00:23:03,610

evolutionary scientists have one form or

505

00:23:01,720 --> 00:23:06,039

another biologists are geologists or

506

00:23:03,609 --> 00:23:08,589

anthropologist or something so we needed

507

00:23:06,039 --> 00:23:12,069

to have that additional scientific

508

00:23:08,589 --> 00:23:13,990

strength on staff we felt that you know

509

00:23:12,069 --> 00:23:14,950

we can we're all smart people we're

510

00:23:13,990 --> 00:23:17,319

going to learn a great deal about

511

00:23:14,950 --> 00:23:19,360

climate science but we're not going to

512

00:23:17,319 --> 00:23:20,799

you know it's not like you have somebody

513

00:23:19,359 --> 00:23:22,059

who's trained in this field and has

514
00:23:20,799 --> 00:23:24,369
really been working in this field for

515
00:23:22,059 --> 00:23:28,149
years and years and we're delighted to

516
00:23:24,369 --> 00:23:30,250
have obtained marks services he will he

517
00:23:28,150 --> 00:23:32,620
just started working for us full-time in

518
00:23:30,250 --> 00:23:34,150
January so he's our newest guy and now

519
00:23:32,619 --> 00:23:35,259
be sure that you meet him on our tour

520
00:23:34,150 --> 00:23:37,420
all right well let's have a little

521
00:23:35,259 --> 00:23:39,759
wonder around and see who we can see in

522
00:23:37,420 --> 00:23:42,870
what we can see all right and be sure to

523
00:23:39,759 --> 00:23:42,869
look up as you walk around

524
00:23:43,659 --> 00:23:50,600
and coming up after the break Eugenie

525
00:23:47,808 --> 00:24:06,710
Scott takes us on a tour of the National

526
00:23:50,599 --> 00:24:08,538
Center for Science Education hi my name

527
00:24:06,710 --> 00:24:11,000
is Erica dining and I recently published

528
00:24:08,538 --> 00:24:13,490
a book my dad is Brian Dunning from

529
00:24:11,000 --> 00:24:15,019
scaphoid com the title of my book is

530
00:24:13,490 --> 00:24:17,960
polar bear in the trial of leadership

531
00:24:15,019 --> 00:24:20,569
you can find it on amazon.com or through

532
00:24:17,960 --> 00:24:22,490
the link at skeptic zone TV it is an

533
00:24:20,569 --> 00:24:24,109
adventure novel about the trials of a

534
00:24:22,490 --> 00:24:26,329
group of animals trying to escape a

535
00:24:24,109 --> 00:24:28,278
corrupt Queen this book is great for

536
00:24:26,329 --> 00:24:30,798
families adolescents and children alike

537
00:24:28,278 --> 00:24:32,388
and here it is again polar bear in the

538
00:24:30,798 --> 00:24:37,638
trial of leadership by arachidonic

539
00:24:32,388 --> 00:24:40,459
Thanks hi this is brian dunning from

540
00:24:37,638 --> 00:24:41,898
sceptile calm the best way to share the

541
00:24:40,460 --> 00:24:43,639
benefits of critical thinking and

542

00:24:41,898 --> 00:24:46,339
science with someone who doesn't listen

543
00:24:43,638 --> 00:24:48,709
to podcasts is to give them a book I

544
00:24:46,339 --> 00:24:50,720
invite you to check out my newest book

545
00:24:48,710 --> 00:24:54,379
based on selected episodes of The

546
00:24:50,720 --> 00:24:58,220
sceptile cast skept tied three pirates

547
00:24:54,378 --> 00:25:00,709
pyramids and papyrus 50 chapters contain

548
00:24:58,220 --> 00:25:03,019
something for everyone questions you've

549
00:25:00,710 --> 00:25:05,649
always wondered about and subjects to

550
00:25:03,019 --> 00:25:09,079
intrigue and challenge your friends

551
00:25:05,648 --> 00:25:10,969
pirates pyramids and papyrus by Brian

552
00:25:09,079 --> 00:25:13,638
Dunning with a foreword by Richard

553
00:25:10,970 --> 00:25:15,139
Saunders of the Australian skeptics it's

554
00:25:13,638 --> 00:25:18,079
available now from major online

555
00:25:15,138 --> 00:25:21,258
booksellers as a paperback and as an

556
00:25:18,079 --> 00:25:24,829

e-book or get a personalized copy from

557

00:25:21,259 --> 00:25:28,000

sceptile calm I'm Brian Dunning from

558

00:25:24,829 --> 00:25:28,000

sceptile calm

559

00:25:35,349 --> 00:25:40,009

so we're here at the National Center for

560

00:25:37,609 --> 00:25:42,859

Science Education and it's a nice little

561

00:25:40,009 --> 00:25:45,549

building here in Oakland and desk ah you

562

00:25:42,859 --> 00:25:48,139

should see it folks as a wonderful

563

00:25:45,549 --> 00:25:50,059

mobile crop circle I'm looking at the

564

00:25:48,140 --> 00:25:51,710

mobile of the solar system are you

565

00:25:50,059 --> 00:25:53,929

hanging from the ceiling which is that's

566

00:25:51,710 --> 00:25:57,890

really nice that's all the planets crop

567

00:25:53,930 --> 00:26:00,710

circle of your older logo on the wall a

568

00:25:57,890 --> 00:26:02,360

picture there's a giant inflatable globe

569

00:26:00,710 --> 00:26:05,480

of the earth just hanging off a pipe

570

00:26:02,359 --> 00:26:07,549

Charles Darwin dolly hang on the wall

571
00:26:05,480 --> 00:26:09,410
there are dinosaurs and birds hanging

572
00:26:07,549 --> 00:26:13,129
from the ceiling there's a t-rex

573
00:26:09,410 --> 00:26:14,960
skeleton over there GV what what must it

574
00:26:13,130 --> 00:26:17,930
be like to what would come here to work

575
00:26:14,960 --> 00:26:22,309
every day oh great fun it's great fun

576
00:26:17,930 --> 00:26:25,519
it's a mi I actually am NOT the interior

577
00:26:22,309 --> 00:26:28,669
decorator of nco CDs mostly have been

578
00:26:25,519 --> 00:26:31,839
strung up by colleagues of mine who gee

579
00:26:28,670 --> 00:26:35,900
we just got a new new pterodactyl

580
00:26:31,839 --> 00:26:38,329
inflatable toy let's hang it up so yeah

581
00:26:35,900 --> 00:26:41,330
that works what I wrote I can see in at

582
00:26:38,329 --> 00:26:43,279
least four from one two three four

583
00:26:41,329 --> 00:26:45,049
pterodactyls hanging from various bits

584
00:26:43,279 --> 00:26:47,000
of the sea I get the most suspect David

585
00:26:45,049 --> 00:26:50,029
almond Smith is responsible for that

586
00:26:47,000 --> 00:26:52,759
he's he has a great sense of play and we

587
00:26:50,029 --> 00:26:53,930
we benefit greatly from his now a lot of

588
00:26:52,759 --> 00:26:58,250
these things have been sent to us by

589
00:26:53,930 --> 00:27:02,660
members we have a a place of foot mat

590
00:26:58,250 --> 00:27:06,220
yeah whats whys it's a doorman doorman

591
00:27:02,660 --> 00:27:08,480
oh yeah you're not in Kansas anymore

592
00:27:06,220 --> 00:27:09,890
that was sent to us by one of our

593
00:27:08,480 --> 00:27:11,900
members but it's hanging on the wall

594
00:27:09,890 --> 00:27:14,090
it's hanging on the wall and mostly we

595
00:27:11,900 --> 00:27:15,980
take photographs of when we get visitors

596
00:27:14,089 --> 00:27:19,039
yeah we usually pose them beneath the

597
00:27:15,980 --> 00:27:20,750
you're not in Kansas anymore Matt so so

598
00:27:19,039 --> 00:27:24,440
it doesn't get one idea one of you in

599

00:27:20,750 --> 00:27:26,599
under the doormat and but that of course

600
00:27:24,440 --> 00:27:30,410
is as an in-joke in that the state of

601
00:27:26,599 --> 00:27:32,419
Kansas has had a history over time of

602
00:27:30,410 --> 00:27:34,009
wrestling with the creationism and

603
00:27:32,420 --> 00:27:36,110
evolution issue and their state board of

604
00:27:34,009 --> 00:27:39,200
education made a number of very poor

605
00:27:36,109 --> 00:27:42,469
decisions back especially from about

606
00:27:39,200 --> 00:27:45,500
to about 2005 and so Kansas kind of

607
00:27:42,470 --> 00:27:47,569
became something of a of a catchword for

608
00:27:45,500 --> 00:27:49,278
creationism in the country you're not in

609
00:27:47,569 --> 00:27:51,319
Kansas anymore it's a one it's you know

610
00:27:49,278 --> 00:27:53,269
it's it's sort of and that's a phrase of

611
00:27:51,319 --> 00:27:55,939
course from The Wizard of ID is it may

612
00:27:53,269 --> 00:27:57,620
be well we're not in canvassed Kansas

613
00:27:55,940 --> 00:27:59,778

anymore toto or something like Dorothy

614

00:27:57,619 --> 00:28:03,099

toto I don't think we're in Kansas

615

00:27:59,778 --> 00:28:05,960

anymore I know it this doormat is

616

00:28:03,099 --> 00:28:07,638

strategically placed I must say near one

617

00:28:05,960 --> 00:28:09,528

of the most famous rooms in the the

618

00:28:07,638 --> 00:28:12,769

whole place which is the the bathroom

619

00:28:09,528 --> 00:28:15,619

it's true let's shall we take a trip

620

00:28:12,769 --> 00:28:18,048

open the door come into the bathroom

621

00:28:15,619 --> 00:28:20,989

with me Jeanne and it gets a little

622

00:28:18,048 --> 00:28:24,500

echoey it does and it's it's a room

623

00:28:20,990 --> 00:28:26,509

about the size of three or four phone

624

00:28:24,500 --> 00:28:29,298

boxes are you it's quite spacious for

625

00:28:26,509 --> 00:28:31,009

this rapidly about five or six but i

626

00:28:29,298 --> 00:28:34,038

need to you know something that's pretty

627

00:28:31,009 --> 00:28:37,638

odd science and we've taken advantage of

628
00:28:34,038 --> 00:28:39,740
the size by using the wall space to put

629
00:28:37,638 --> 00:28:42,048
some of our favorite correspondents it's

630
00:28:39,740 --> 00:28:43,849
one of this wall to wall correspondence

631
00:28:42,048 --> 00:28:46,190
and here up on big notice boards and

632
00:28:43,849 --> 00:28:48,408
good grief there's the other old emails

633
00:28:46,190 --> 00:28:50,269
and things and then press clatters and

634
00:28:48,409 --> 00:28:52,789
handwritten letters and things and i

635
00:28:50,269 --> 00:28:55,880
happen to notice that is even photograph

636
00:28:52,788 --> 00:28:58,519
of me and you're very lovely postcards

637
00:28:55,880 --> 00:29:01,278
are sent to NCSE and dr. Scott all the

638
00:28:58,519 --> 00:29:03,288
best look at very grim with my big spoon

639
00:29:01,278 --> 00:29:04,970
yes indeed well I can understand why you

640
00:29:03,288 --> 00:29:08,269
have tomato soup all over my shirt

641
00:29:04,970 --> 00:29:10,519
result of that bent but we have we have

642
00:29:08,269 --> 00:29:14,058
our favorite stuff on here and it's it's

643
00:29:10,519 --> 00:29:17,240
from a variety of sources things from

644
00:29:14,058 --> 00:29:20,210
people who you know have said very very

645
00:29:17,240 --> 00:29:22,009
nice things about us someplace here

646
00:29:20,210 --> 00:29:25,210
although right now of course I'm not

647
00:29:22,009 --> 00:29:29,629
finding it we have a very nice note from

648
00:29:25,210 --> 00:29:31,610
Nobel laureate steven weinberg talking

649
00:29:29,630 --> 00:29:33,769
about you know how important our

650
00:29:31,609 --> 00:29:35,719
wordless ends good times there are so

651
00:29:33,769 --> 00:29:37,579
may dismiss so lovely so many things

652
00:29:35,720 --> 00:29:39,149
stuck everywhere it's I'm not suppose

653
00:29:37,579 --> 00:29:43,228
you know we have

654
00:29:39,148 --> 00:29:45,058
other male like so you're the dirty

655
00:29:43,229 --> 00:29:46,769
bastards responsible for shoving that

656

00:29:45,058 --> 00:29:48,838
liberal down our kids throats

657
00:29:46,769 --> 00:29:50,128
you should be ashamed of ourselves may

658
00:29:48,838 --> 00:29:52,019
Almighty God the creator of all things

659
00:29:50,128 --> 00:29:54,569
have mercy on your soul so you not

660
00:29:52,019 --> 00:29:57,239
everybody's a fan but he left it with a

661
00:29:54,569 --> 00:29:58,888
nice sentence at the end yet he was

662
00:29:57,239 --> 00:30:00,598
wishing you well in the strange sir and

663
00:29:58,888 --> 00:30:02,218
there's a parrot hanging down for the

664
00:30:00,598 --> 00:30:05,428
walls oh yeah it's a big sort of soft

665
00:30:02,219 --> 00:30:07,048
cuddly toy Yeah right now I thank you

666
00:30:05,429 --> 00:30:09,179
for calling attention we need to Destin

667
00:30:07,048 --> 00:30:13,969
parents oh yes it is a dusty card yes

668
00:30:09,179 --> 00:30:16,969
yeah this is true we do have we have a

669
00:30:13,969 --> 00:30:19,588
letter from for young ladies apparently

670
00:30:16,969 --> 00:30:21,599

I'm a Christian my name is Brittany and

671

00:30:19,588 --> 00:30:23,608

I hate evolution I don't believe it your

672

00:30:21,598 --> 00:30:25,798

nonsense is just a bunch of fake and she

673

00:30:23,608 --> 00:30:28,259

goes on similarly but at the end she

674

00:30:25,798 --> 00:30:32,398

says haven't have a good day atheist

675

00:30:28,259 --> 00:30:34,999

people so in your friends so we have a

676

00:30:32,398 --> 00:30:39,088

number of things and one of my favorites

677

00:30:34,999 --> 00:30:41,700

one of my favorites is the the claim

678

00:30:39,088 --> 00:30:44,190

that I am the foremost terrestrial

679

00:30:41,700 --> 00:30:47,098

authority on Genesis and you know we we

680

00:30:44,190 --> 00:30:49,649

like that very much we we think that

681

00:30:47,098 --> 00:30:52,798

that's that that leaves a great deal of

682

00:30:49,648 --> 00:30:56,819

room for people to think about you know

683

00:30:52,798 --> 00:30:58,259

well as their a lunar Tristan that's

684

00:30:56,819 --> 00:31:00,178

already on Genesis well I'm actually

685
00:30:58,259 --> 00:31:02,069
imagine that the foremost authority

686
00:31:00,179 --> 00:31:04,320
would take the time to write to you is

687
00:31:02,069 --> 00:31:06,450
no one actually corresponds with us

688
00:31:04,319 --> 00:31:08,788
regularly in a mirror so we have good

689
00:31:06,450 --> 00:31:11,009
things and the cartoons on the wall here

690
00:31:08,788 --> 00:31:13,788
in press clippings with with you I see a

691
00:31:11,009 --> 00:31:15,960
couple became well I can see why my

692
00:31:13,788 --> 00:31:18,179
visit to your bathroom is certainly an

693
00:31:15,960 --> 00:31:20,759
experience when one visits the end

694
00:31:18,179 --> 00:31:24,089
newcomers tend to spend a lot of time

695
00:31:20,759 --> 00:31:26,519
here I mean it it takes people a long

696
00:31:24,088 --> 00:31:29,969
time to get out of the bathroom but yes

697
00:31:26,519 --> 00:31:33,329
it's so i must say 11 that was rather

698
00:31:29,969 --> 00:31:36,330
fun as some number of years ago somebody

699
00:31:33,329 --> 00:31:37,888
wrote hello mrs. Scott IC or miss got I

700
00:31:36,329 --> 00:31:39,569
see your name everywhere and I see you

701
00:31:37,888 --> 00:31:41,158
get around lot so I thought I'd email

702
00:31:39,569 --> 00:31:43,928
you and offer to buy you dinner if you

703
00:31:41,159 --> 00:31:46,090
ever get to Tulsa yeah so I

704
00:31:43,929 --> 00:31:49,990
you have a date and also if I'm so mind

705
00:31:46,089 --> 00:31:54,069
so we get great mail both for and

706
00:31:49,990 --> 00:31:55,720
against and the the choice pieces end up

707
00:31:54,069 --> 00:31:57,668
in our bathroom so if anyone comes to

708
00:31:55,720 --> 00:31:59,200
visit should certainly a trip to the

709
00:31:57,669 --> 00:32:01,600
bathroom now we're just passing the

710
00:31:59,200 --> 00:32:04,509
giant inflatable globe and I'm proud to

711
00:32:01,599 --> 00:32:08,079
say that Australia is is prominent front

712
00:32:04,509 --> 00:32:10,298
and center although miss shapen there's

713

00:32:08,079 --> 00:32:12,249
a bay there is an inlet of something

714
00:32:10,298 --> 00:32:16,269
that I've never seen before it's just

715
00:32:12,249 --> 00:32:18,100
where the gods have come together it has

716
00:32:16,269 --> 00:32:18,940
to do with the seam of the plastic I

717
00:32:18,099 --> 00:32:23,288
don't think you should take it

718
00:32:18,940 --> 00:32:25,990
personally I very strange there we are

719
00:32:23,288 --> 00:32:28,118
and when I look at this I realize what

720
00:32:25,990 --> 00:32:30,190
an amazing thing it is to fly from

721
00:32:28,118 --> 00:32:32,678
Sydney and I can actually see right over

722
00:32:30,190 --> 00:32:35,110
this why it takes so long for you to get

723
00:32:32,679 --> 00:32:37,149
to visit us at Richard who does we love

724
00:32:35,109 --> 00:32:39,490
it every time but yeah boy I'd tell you

725
00:32:37,148 --> 00:32:42,368
it's a it's a contribution to it's a

726
00:32:39,490 --> 00:32:44,288
it's fun yeah there's a lot of your

727
00:32:42,368 --> 00:32:46,839

visit long long hours on the airplane

728

00:32:44,288 --> 00:32:48,669

and there we're passing cubicles now

729

00:32:46,839 --> 00:32:51,839

with people very hard at work they re

730

00:32:48,669 --> 00:32:56,169

insurers this is a rayon David our

731

00:32:51,839 --> 00:32:59,499

support staff raise our business manager

732

00:32:56,169 --> 00:33:02,230

and director of operations now we're

733

00:32:59,499 --> 00:33:04,538

moving back into the back portion I

734

00:33:02,230 --> 00:33:06,519

seems to be a storage wrist isn't it you

735

00:33:04,538 --> 00:33:08,849

know it's now it's office space that's a

736

00:33:06,519 --> 00:33:11,888

good sign where and like the rest of the

737

00:33:08,849 --> 00:33:15,459

rooms here you have memorabilia

738

00:33:11,888 --> 00:33:17,019

everywhere another Darwin doll another

739

00:33:15,460 --> 00:33:19,169

Darwin doll there's a Darwin dollar

740

00:33:17,019 --> 00:33:23,528

there there's a devil rubber duckie a

741

00:33:19,169 --> 00:33:26,049

skeleton on a motorbike it it's quite

742
00:33:23,528 --> 00:33:28,419
funny ready yeah various various staff

743
00:33:26,048 --> 00:33:30,278
of sort of left different decorations so

744
00:33:28,419 --> 00:33:32,049
there in yon and so there you have it we

745
00:33:30,278 --> 00:33:34,509
also have a lovely little cute

746
00:33:32,048 --> 00:33:36,609
children's art painting of Noah's Ark

747
00:33:34,509 --> 00:33:38,889
there and well your Suzy is also very

748
00:33:36,609 --> 00:33:40,569
charming we haven't found a place to put

749
00:33:38,888 --> 00:33:43,269
that up yeah if people send us Darwin

750
00:33:40,569 --> 00:33:46,388
dolls a lot so we kind of done it hold

751
00:33:43,269 --> 00:33:48,460
you know schoolroom of Darwin dolls and

752
00:33:46,388 --> 00:33:50,769
but another place that i want to show

753
00:33:48,460 --> 00:33:53,529
you Richard come around the corner yeah

754
00:33:50,769 --> 00:33:56,680
favorite parts ovens right to the very

755
00:33:53,529 --> 00:34:05,349
back corner 0 through a mr. mysterious

756
00:33:56,680 --> 00:34:08,679
door shut that door has our library and

757
00:34:05,349 --> 00:34:10,989
archives Wow look at this really and of

758
00:34:08,679 --> 00:34:15,220
course I'm storage too as well but we

759
00:34:10,989 --> 00:34:18,250
have one two three four bookshelves two

760
00:34:15,219 --> 00:34:20,529
rows of books on each side one to grieve

761
00:34:18,250 --> 00:34:22,239
you have five tiers so I don't such

762
00:34:20,530 --> 00:34:24,070
every logger eyes could tell you exactly

763
00:34:22,239 --> 00:34:26,049
how many books how many volumes we have

764
00:34:24,070 --> 00:34:28,990
in our library but it's been building up

765
00:34:26,050 --> 00:34:30,850
over the years and we have in our

766
00:34:28,989 --> 00:34:33,369
library there's two kinds of books

767
00:34:30,849 --> 00:34:36,398
basically we have regular straight

768
00:34:33,369 --> 00:34:38,109
science books on evolution number of

769
00:34:36,398 --> 00:34:39,639
books on Darwin and you don't and so

770

00:34:38,110 --> 00:34:41,829
forth and so on but then we also have

771
00:34:39,639 --> 00:34:44,789
the creationist libraries have to done

772
00:34:41,829 --> 00:34:47,949
and yes exactly because they are not as

773
00:34:44,789 --> 00:34:50,199
likely to be found in your library in

774
00:34:47,949 --> 00:34:52,389
your public lives is the greatest it's

775
00:34:50,199 --> 00:34:54,969
all it's mixed up it's mixed up I just

776
00:34:52,389 --> 00:34:59,889
noticing the first thing I see here the

777
00:34:54,969 --> 00:35:01,959
flood there we go life itself all sort

778
00:34:59,889 --> 00:35:03,639
of Galilee so many books here folks

779
00:35:01,960 --> 00:35:06,340
hundreds and hundreds and hundreds on

780
00:35:03,639 --> 00:35:11,230
the topic several hundreds yeah and but

781
00:35:06,340 --> 00:35:15,850
maybe what's even more interesting to to

782
00:35:11,230 --> 00:35:17,829
scholars we do get scholars literally

783
00:35:15,849 --> 00:35:19,360
from around the world who are interested

784
00:35:17,829 --> 00:35:21,340

in the American creationism and

785

00:35:19,360 --> 00:35:23,829
evolution controversy they will come

786

00:35:21,340 --> 00:35:25,150
here to use our archives not so much the

787

00:35:23,829 --> 00:35:28,960
books that we've just been looking at

788

00:35:25,150 --> 00:35:34,800
you but the files the final shelf here

789

00:35:28,960 --> 00:35:34,800
we come to you we have files on on the

790

00:35:34,829 --> 00:35:40,840
creationist controversies in various

791

00:35:37,690 --> 00:35:43,150
states just looking here here's one the

792

00:35:40,840 --> 00:35:46,750
Alabama textbook disclaimer case Darby

793

00:35:43,150 --> 00:35:48,579
Montana we have Salman versus cobb

794

00:35:46,750 --> 00:35:51,039
county that was a big legal case we've

795

00:35:48,579 --> 00:35:53,049
got a lot of stuff there we have the

796

00:35:51,039 --> 00:35:55,239
archives of course from kitsmiller vs.

797

00:35:53,050 --> 00:36:00,180
Dover I beg you do do that's and that's

798

00:35:55,239 --> 00:36:04,289
a good and also some some journals

799

00:36:00,179 --> 00:36:08,279
students for origins research this is

800

00:36:04,289 --> 00:36:11,519
you know going way way back to look

801

00:36:08,280 --> 00:36:12,960
really in 1978 oh wow and actually this

802

00:36:11,519 --> 00:36:17,960
might be of interest to some of your

803

00:36:12,960 --> 00:36:22,409
listeners yeah it was it was when our

804

00:36:17,960 --> 00:36:25,889
archivist of the time was helping staff

805

00:36:22,409 --> 00:36:27,719
find materials that would be relevant to

806

00:36:25,889 --> 00:36:33,179
the kids mother versus Dover case back

807

00:36:27,719 --> 00:36:35,519
in 2004-2005 one of the things that we

808

00:36:33,179 --> 00:36:37,889
did was go back and look through some of

809

00:36:35,519 --> 00:36:42,769
this old archival material from the 70s

810

00:36:37,889 --> 00:36:45,929
and 80s and she was able to find an

811

00:36:42,769 --> 00:36:47,489
article from the students for origins

812

00:36:45,929 --> 00:36:50,940
research from fall of nineteen

813
00:36:47,489 --> 00:36:54,089
eighty-one yeah might even take a

814
00:36:50,940 --> 00:36:56,730
photograph of this unbiased biology

815
00:36:54,090 --> 00:37:00,090
textbook plans to move and this was a

816
00:36:56,730 --> 00:37:02,190
reference to a book that was planned by

817
00:37:00,090 --> 00:37:04,980
the foundation for thought and ethics

818
00:37:02,190 --> 00:37:07,470
Charles B thaxton talking about how they

819
00:37:04,980 --> 00:37:10,440
wanted to produce a book that would be a

820
00:37:07,469 --> 00:37:12,239
high school biology supplement which

821
00:37:10,440 --> 00:37:14,429
would have both creation and evolution

822
00:37:12,239 --> 00:37:17,219
in it and this would be you know

823
00:37:14,429 --> 00:37:18,750
supposedly suitable to be sold in public

824
00:37:17,219 --> 00:37:20,639
schools they were going to try to go

825
00:37:18,750 --> 00:37:24,090
into the textbook market now remember

826
00:37:20,639 --> 00:37:27,079
this was the date on this of course was

827

00:37:24,090 --> 00:37:30,750
nineteen eighty-one this is before the

828
00:37:27,079 --> 00:37:32,659
courts decisions that declared that the

829
00:37:30,750 --> 00:37:35,190
teaching of creationism was

830
00:37:32,659 --> 00:37:36,779
unconstitutional you could not bring so

831
00:37:35,190 --> 00:37:38,610
this was still when they thought they

832
00:37:36,780 --> 00:37:41,400
would be able to do this well this was

833
00:37:38,610 --> 00:37:44,370
this planned book was the ancestor of

834
00:37:41,400 --> 00:37:46,410
the book that eventually was produced by

835
00:37:44,369 --> 00:37:49,319
thaxton and the foundation for thought

836
00:37:46,409 --> 00:37:51,899
and ethics of pandas and people which

837
00:37:49,320 --> 00:37:54,600
was very significant in the hold over

838
00:37:51,900 --> 00:37:56,250
Pennsylvania controversy because that

839
00:37:54,599 --> 00:38:00,239
was the book that the school board

840
00:37:56,250 --> 00:38:02,940
members sought to have taught in the

841
00:38:00,239 --> 00:38:06,449

over school system so finding this kind

842

00:38:02,940 --> 00:38:08,849

of this reference was key because when

843

00:38:06,449 --> 00:38:11,809

we told our when we told the lawyer the

844

00:38:08,849 --> 00:38:14,190

legal team we found this reference from

845

00:38:11,809 --> 00:38:16,619

the foundation for thought and ethics

846

00:38:14,190 --> 00:38:17,400

FTE that they were making you know they

847

00:38:16,619 --> 00:38:19,619

had an

848

00:38:17,400 --> 00:38:21,809

I into creation and evolution book gee I

849

00:38:19,619 --> 00:38:24,539

wonder if any early manuscripts are

850

00:38:21,809 --> 00:38:27,210

still around well the lawyer is very

851

00:38:24,539 --> 00:38:29,929

quickly decided that was something they

852

00:38:27,210 --> 00:38:33,300

wanted to look into they subpoenaed any

853

00:38:29,929 --> 00:38:35,309

early manuscripts of pandas and people

854

00:38:33,300 --> 00:38:37,140

from foundation for fun and ethics I

855

00:38:35,309 --> 00:38:39,900

would have loved to have been a fly on

856
00:38:37,139 --> 00:38:43,650
that wall when that Sabina came in

857
00:38:39,900 --> 00:38:46,860
because FTE must have just died but you

858
00:38:43,650 --> 00:38:48,150
know to their credit they did not just

859
00:38:46,860 --> 00:38:49,920
find a shredder someplace which would

860
00:38:48,150 --> 00:38:51,900
have been illegal but you know in one

861
00:38:49,920 --> 00:38:55,500
sense would have known right they

862
00:38:51,900 --> 00:38:57,930
coughed up the manuscript and using

863
00:38:55,500 --> 00:39:00,929
those manuscripts we were able to show a

864
00:38:57,929 --> 00:39:03,539
direct progression from creationist

865
00:39:00,929 --> 00:39:05,699
textbooks called you know creation

866
00:39:03,539 --> 00:39:07,550
biology and other titles like that all

867
00:39:05,699 --> 00:39:09,329
the way up through the several

868
00:39:07,550 --> 00:39:11,100
manuscripts to the book that they

869
00:39:09,329 --> 00:39:13,650
eventually published of pandas and

870
00:39:11,099 --> 00:39:16,710
people but and during the course of this

871
00:39:13,650 --> 00:39:20,550
evolution so to speak they adroitly

872
00:39:16,710 --> 00:39:22,740
substituted the word intelligent the

873
00:39:20,550 --> 00:39:25,440
phrase intelligent design wherever they

874
00:39:22,739 --> 00:39:28,619
had said previously creationism that's

875
00:39:25,440 --> 00:39:30,090
quite famous isn't it and I think you

876
00:39:28,619 --> 00:39:32,460
probably gave a talk on this right so

877
00:39:30,090 --> 00:39:34,220
that you do a search for the manuscript

878
00:39:32,460 --> 00:39:36,840
and see where they've simply replaced

879
00:39:34,219 --> 00:39:38,459
one word for the other that's right and

880
00:39:36,840 --> 00:39:40,680
we were able to present that information

881
00:39:38,460 --> 00:39:42,570
to the judge or the lawyers obviously

882
00:39:40,679 --> 00:39:44,129
present we provided that information to

883
00:39:42,570 --> 00:39:47,130
the lawyers and that was very

884

00:39:44,130 --> 00:39:49,470
influential in helping to convince the

885
00:39:47,130 --> 00:39:51,930
judge that intelligent design really was

886
00:39:49,469 --> 00:39:53,789
just creation science with a new label

887
00:39:51,929 --> 00:39:56,039
that's really and of course since the

888
00:39:53,789 --> 00:39:58,650
courts in the US had already determined

889
00:39:56,039 --> 00:40:00,809
that you that teaching creation science

890
00:39:58,650 --> 00:40:04,910
was unconstitutional if intelligent

891
00:40:00,809 --> 00:40:08,639
design is creation science duh

892
00:40:04,909 --> 00:40:10,379
constitutional so what about a little

893
00:40:08,639 --> 00:40:13,679
that that little article that i showed

894
00:40:10,380 --> 00:40:15,769
you turned out to be the source of what

895
00:40:13,679 --> 00:40:18,779
turned out to be a pretty important

896
00:40:15,769 --> 00:40:21,239
argument in a pretty important legal

897
00:40:18,780 --> 00:40:23,780
case so it's all here well a lot is a

898
00:40:21,239 --> 00:40:28,559

lot is here lots and lots and lots you

899

00:40:23,780 --> 00:40:29,910

so yeah and of course we also have the

900

00:40:28,559 --> 00:40:33,568

the mud

901

00:40:29,909 --> 00:40:39,298

Oh project project must tell you I must

902

00:40:33,568 --> 00:40:43,409

tell you you gave me very kindly in 2004

903

00:40:39,298 --> 00:40:45,568

when I spoke for the skeptics in

904

00:40:43,409 --> 00:40:46,949

Berkeley yeah that's probably when I met

905

00:40:45,568 --> 00:40:48,808

you for the first time I think we're

906

00:40:46,949 --> 00:40:51,210

pretty close to it around then as a

907

00:40:48,809 --> 00:40:53,700

thank you you gave me a project Steve

908

00:40:51,210 --> 00:40:57,358

t-shirt delighted i did salut one yeah

909

00:40:53,699 --> 00:40:59,098

it's it doesn't seem to age that's been

910

00:40:57,358 --> 00:41:01,230

watched more times than I care to think

911

00:40:59,099 --> 00:41:03,000

and the letters are still good and the

912

00:41:01,230 --> 00:41:05,519

shirt is good quality so whatever the

913
00:41:03,000 --> 00:41:07,260
manufacturer is it and I tell you what

914
00:41:05,519 --> 00:41:09,449
I've all the shirts the t-shirts i wear

915
00:41:07,260 --> 00:41:11,970
with skeptical bits and slogans that one

916
00:41:09,449 --> 00:41:14,399
gets people tapping me on the shoulder

917
00:41:11,969 --> 00:41:17,669
asking me about it wonder if it really

918
00:41:14,400 --> 00:41:21,180
does isn't that something but our normal

919
00:41:17,670 --> 00:41:23,280
if you come to our ring any more than

920
00:41:21,179 --> 00:41:26,608
other books of shirts we have you have

921
00:41:23,280 --> 00:41:29,339
this great Wow and there's a cutaway of

922
00:41:26,608 --> 00:41:31,710
the geology of Grand Canyon cheering via

923
00:41:29,338 --> 00:41:34,108
various layers and on one side is the

924
00:41:31,710 --> 00:41:36,990
creation model starting at the 4,000 BC

925
00:41:34,108 --> 00:41:39,719
and the other side is the evolutionary

926
00:41:36,989 --> 00:41:41,429
starting at two billion years so this is

927

00:41:39,719 --> 00:41:45,598

this is a you get if you do the

928

00:41:41,429 --> 00:41:47,399

Grand can't see how that's worth it just

929

00:41:45,599 --> 00:41:49,859

for the shirt Hank you what what a

930

00:41:47,400 --> 00:41:51,838

great-looking shirt that is a bridge and

931

00:41:49,858 --> 00:41:55,369

if you think people tap you on the

932

00:41:51,838 --> 00:41:55,369

shoulder wearing these t-shirts

933

00:41:56,028 --> 00:42:01,199

wonderful what is it being sure that's

934

00:41:58,108 --> 00:42:03,028

it now this is a extra large it comes in

935

00:42:01,199 --> 00:42:04,828

various ID but yeah we are der shirts

936

00:42:03,028 --> 00:42:06,960

for the people who go on our grand

937

00:42:04,829 --> 00:42:10,500

canyon trip and we do have a great time

938

00:42:06,960 --> 00:42:12,269

we do have a great time our Grand Canyon

939

00:42:10,500 --> 00:42:14,969

sure it is a creation and evolution

940

00:42:12,269 --> 00:42:17,068

trading yes you see if you go with the

941

00:42:14,969 --> 00:42:21,598
Institute for Creation Research yeah you

942
00:42:17,068 --> 00:42:23,699
only get the creationist view if you

943
00:42:21,599 --> 00:42:26,039
come with ncsc you'll get the creation

944
00:42:23,699 --> 00:42:27,858
and the evolution field I will give you

945
00:42:26,039 --> 00:42:30,869
the creationist view and we bring a

946
00:42:27,858 --> 00:42:33,869
geologist along who teaches the hell out

947
00:42:30,869 --> 00:42:35,608
of you in terms of the geology really

948
00:42:33,869 --> 00:42:37,230
got a lot of Grand Canyon information

949
00:42:35,608 --> 00:42:40,078
would you care to meet some of my other

950
00:42:37,230 --> 00:42:42,389
absolutely some of my other just wander

951
00:42:40,079 --> 00:42:45,240
up the stairs here yes there is another

952
00:42:42,389 --> 00:42:47,460
level now this is up on that we call

953
00:42:45,239 --> 00:42:50,759
this the loft the loft and we lock up

954
00:42:47,460 --> 00:42:53,548
the project people up here passing more

955
00:42:50,760 --> 00:42:58,140

dinosaurs as we go and i don't mean the

956

00:42:53,548 --> 00:43:00,509

staff that's a good breakfast this is my

957

00:42:58,139 --> 00:43:02,818

new newest colleague mark McCaffrey he's

958

00:43:00,510 --> 00:43:04,680

our climate science guy this is my

959

00:43:02,818 --> 00:43:07,949

friend Richard Saunders great to meet

960

00:43:04,679 --> 00:43:09,838

you Richard okay and Josh rose know he's

961

00:43:07,949 --> 00:43:12,659

one of our project people as well he's

962

00:43:09,838 --> 00:43:15,000

one of the flare-ups Wranglers and he's

963

00:43:12,659 --> 00:43:17,460

also been helping a lot with the climate

964

00:43:15,000 --> 00:43:20,309

change initiative and you guys have

965

00:43:17,460 --> 00:43:22,170

ended up in the top try anyhow be like

966

00:43:20,309 --> 00:43:24,720

to the penthouse be calling it the loft

967

00:43:22,170 --> 00:43:27,059

it's the penthouse penthouse yes and how

968

00:43:24,719 --> 00:43:30,769

long have you been here for four years

969

00:43:27,059 --> 00:43:33,839

for a half years um so what has changed

970
00:43:30,769 --> 00:43:35,699
in your four years here would most

971
00:43:33,838 --> 00:43:37,920
noticeably well we're dealing with

972
00:43:35,699 --> 00:43:40,769
climate change packages at the biggest

973
00:43:37,920 --> 00:43:42,990
change in but yeah and I mean it's

974
00:43:40,769 --> 00:43:45,509
you've definitely been a shift since

975
00:43:42,989 --> 00:43:47,879
2007 let's talk about intelligent design

976
00:43:45,510 --> 00:43:50,039
I think more of a move back to sort of

977
00:43:47,880 --> 00:43:52,858
traditional creationist you think of a

978
00:43:50,039 --> 00:43:57,089
giant intelligent designs have its day

979
00:43:52,858 --> 00:43:58,769
it's it's filed and moved on it never

980
00:43:57,088 --> 00:44:00,449
really had a lot of energy as a

981
00:43:58,769 --> 00:44:02,548
political strategy and his legal

982
00:44:00,449 --> 00:44:07,019
strategy it had legs for a while but

983
00:44:02,548 --> 00:44:08,909
then it lost in court and it didn't it

984
00:44:07,019 --> 00:44:10,650
never had enthusiasm in its own right

985
00:44:08,909 --> 00:44:12,598
you don't hear much about it and so yeah

986
00:44:10,650 --> 00:44:14,519
I mean yeah you know Discovery Institute

987
00:44:12,599 --> 00:44:16,440
still promoting it but it's not exciting

988
00:44:14,519 --> 00:44:19,798
for anybody else anymore you know I

989
00:44:16,440 --> 00:44:22,230
think it was barely possible that the

990
00:44:19,798 --> 00:44:24,630
Discovery Institute or other people

991
00:44:22,230 --> 00:44:27,059
associated with the intelligent design

992
00:44:24,630 --> 00:44:30,028
movement are behind some of the academic

993
00:44:27,059 --> 00:44:32,700
freedom act issues because they have

994
00:44:30,028 --> 00:44:37,608
been pushing the academic freedom act

995
00:44:32,699 --> 00:44:40,169
types of proposals and legislation and

996
00:44:37,608 --> 00:44:42,900
certainly their model bill that they

997
00:44:40,170 --> 00:44:46,409
wrote a few years ago bits and pieces of

998

00:44:42,900 --> 00:44:49,019
that oven it showed up in the law that

999
00:44:46,409 --> 00:44:51,269
the state of Florida almost got past

1000
00:44:49,019 --> 00:44:52,769
fortunately didn't pass and there's sort

1001
00:44:51,269 --> 00:44:53,338
of remnants of that that sort of

1002
00:44:52,769 --> 00:44:55,469
trickler

1003
00:44:53,338 --> 00:44:57,599
and pop up periodically in other states

1004
00:44:55,469 --> 00:45:00,298
so that's part of the monitoring that we

1005
00:44:57,599 --> 00:45:02,818
do trying to trace things back and where

1006
00:45:00,298 --> 00:45:04,498
does this come from and oh yes and as a

1007
00:45:02,818 --> 00:45:07,199
shift away from let's talk about

1008
00:45:04,498 --> 00:45:08,669
intelligent design to let's talk about

1009
00:45:07,199 --> 00:45:10,978
whatever the teacher wants to talk about

1010
00:45:08,670 --> 00:45:12,599
in addition to evolution so not even

1011
00:45:10,978 --> 00:45:13,618
saying it has to be intelligent design

1012
00:45:12,599 --> 00:45:15,749

it could be I mean they could bring in

1013

00:45:13,619 --> 00:45:17,338

stuff from Answers in Genesis and say oh

1014

00:45:15,748 --> 00:45:20,669

yeah the earth was created 6,000 years

1015

00:45:17,338 --> 00:45:21,599

ago in six 24-hour days I mean it's

1016

00:45:20,670 --> 00:45:23,460

still illegal it's still

1017

00:45:21,599 --> 00:45:25,349

unconstitutional as it as it ever was

1018

00:45:23,460 --> 00:45:27,599

yeah same thing with intelligent design

1019

00:45:25,349 --> 00:45:30,119

but it's making it a little bit harder

1020

00:45:27,599 --> 00:45:32,430

to just shut down a teacher and stop a

1021

00:45:30,119 --> 00:45:34,680

teacher from doing that from from going

1022

00:45:32,429 --> 00:45:37,318

outside the signs like that okay a lot

1023

00:45:34,679 --> 00:45:41,728

of these academic freedom act proposals

1024

00:45:37,318 --> 00:45:44,190

that we see are permissive you know they

1025

00:45:41,728 --> 00:45:48,058

allow a teacher to bring information in

1026

00:45:44,190 --> 00:45:50,639

that that supplements the the curriculum

1027
00:45:48,059 --> 00:45:53,309
they don't require the teacher to do it

1028
00:45:50,639 --> 00:45:55,828
and so that makes it harder to challenge

1029
00:45:53,309 --> 00:45:57,869
on the face of the of the proposal

1030
00:45:55,829 --> 00:46:00,450
itself it's harder to challenge the law

1031
00:45:57,869 --> 00:46:02,608
itself if it says well you can do this

1032
00:46:00,449 --> 00:46:04,379
you don't have to do this but you can do

1033
00:46:02,608 --> 00:46:05,969
it so that means you've got to find the

1034
00:46:04,380 --> 00:46:07,890
teacher that's actually doing it if

1035
00:46:05,969 --> 00:46:09,269
you're going to challenge the law so

1036
00:46:07,889 --> 00:46:10,949
there's a deliberate there's a reason

1037
00:46:09,268 --> 00:46:12,808
why those laws are structured that way

1038
00:46:10,949 --> 00:46:15,960
the other thing that we're finding these

1039
00:46:12,809 --> 00:46:18,298
laws do is they are protective they

1040
00:46:15,960 --> 00:46:20,219
protect a teacher who wants to bring an

1041
00:46:18,298 --> 00:46:22,228
additional material and bringing an

1042
00:46:20,219 --> 00:46:25,139
additional material is code for be

1043
00:46:22,228 --> 00:46:27,449
inseparable we're talking bringing in

1044
00:46:25,139 --> 00:46:29,129
creationism okay come on this is back to

1045
00:46:27,449 --> 00:46:31,139
earth creationist yeah yeah it's done

1046
00:46:29,130 --> 00:46:33,900
under the guise of promoting critical

1047
00:46:31,139 --> 00:46:37,170
thinking and reasoning and no damage

1048
00:46:33,900 --> 00:46:38,400
activeanalysis eyes well but that's not

1049
00:46:37,170 --> 00:46:40,769
even the phrase that it's used it's just

1050
00:46:38,400 --> 00:46:41,969
in the bill it'll just say in the

1051
00:46:40,768 --> 00:46:43,889
interest you know that there is a

1052
00:46:41,969 --> 00:46:46,499
secular interest in promoting critical

1053
00:46:43,889 --> 00:46:48,028
thinking and objective analysis like

1054
00:46:46,498 --> 00:46:49,858
freedom and actually have a freedom of

1055

00:46:48,028 --> 00:46:51,298
it all these things that how can you be

1056
00:46:49,858 --> 00:46:53,489
against this right it sounds so

1057
00:46:51,298 --> 00:46:55,259
reasonable but in practice as soon as

1058
00:46:53,489 --> 00:46:57,478
anyone is asked well what other views

1059
00:46:55,259 --> 00:46:58,920
are not being represented well you know

1060
00:46:57,478 --> 00:47:01,228
God created the earth and evolution is

1061
00:46:58,920 --> 00:47:02,789
wrong right that's still what's behind

1062
00:47:01,228 --> 00:47:06,659
it it's still trying to find a way to

1063
00:47:02,789 --> 00:47:09,060
get that in it's just the

1064
00:47:06,659 --> 00:47:13,920
language of the bill is less overt about

1065
00:47:09,059 --> 00:47:16,889
it but they often will bundle up global

1066
00:47:13,920 --> 00:47:20,070
warming evolution stem cells and things

1067
00:47:16,889 --> 00:47:22,859
like that so that the kind of draw a red

1068
00:47:20,070 --> 00:47:25,590
flag to themselves when they you know it

1069
00:47:22,860 --> 00:47:28,289

call out specific areas of science that

1070

00:47:25,590 --> 00:47:31,200

are so-called controversial yeah now as

1071

00:47:28,289 --> 00:47:35,579

just as we were chatting earlier Jeannie

1072

00:47:31,199 --> 00:47:39,169

about the movement to look at global

1073

00:47:35,579 --> 00:47:41,369

warming and climate climate change when

1074

00:47:39,170 --> 00:47:44,490

whenever I mentioned this on my podcast

1075

00:47:41,369 --> 00:47:46,380

I get letters from everybody twice and

1076

00:47:44,489 --> 00:47:48,539

their dogs you know calling me an idiot

1077

00:47:46,380 --> 00:47:51,150

from from both directions and everything

1078

00:47:48,539 --> 00:47:53,340

do you really you're really in an area

1079

00:47:51,150 --> 00:47:55,710

which is like a hornet's nest no

1080

00:47:53,340 --> 00:47:57,630

question yeah but everybody and their

1081

00:47:55,710 --> 00:48:00,150

brother and their dog or actually from

1082

00:47:57,630 --> 00:48:04,289

what we're seeing a very small very

1083

00:48:00,150 --> 00:48:08,220

vocal very effective group of naysayers

1084
00:48:04,289 --> 00:48:10,500
who some somehow have the time to be

1085
00:48:08,219 --> 00:48:11,730
able to look like their numbers are much

1086
00:48:10,500 --> 00:48:14,090
greater than they actually are and

1087
00:48:11,730 --> 00:48:17,820
they're all experts absolutely a

1088
00:48:14,090 --> 00:48:19,350
question it hits a nerve yeah yeah but

1089
00:48:17,820 --> 00:48:23,370
look at all the practice we got dealing

1090
00:48:19,349 --> 00:48:25,170
with evolution for 25 actually was very

1091
00:48:23,369 --> 00:48:28,369
funny a journalist who was interviewing

1092
00:48:25,170 --> 00:48:31,260
me last week when we announced in this

1093
00:48:28,369 --> 00:48:33,599
second week of January 2012 when we

1094
00:48:31,260 --> 00:48:35,460
announced the the initiative a

1095
00:48:33,599 --> 00:48:39,089
journalist that I knew called me up she

1096
00:48:35,460 --> 00:48:41,280
said you know so like the frying pan

1097
00:48:39,090 --> 00:48:43,769
wasn't hot enough you had to jump into

1098
00:48:41,280 --> 00:48:46,050
the fire that's good that's a good

1099
00:48:43,769 --> 00:48:49,170
analogy yeah it is our gentlemen I wish

1100
00:48:46,050 --> 00:48:50,880
you lots of luck thank you I really do I

1101
00:48:49,170 --> 00:48:53,519
mean you're right as if you didn't have

1102
00:48:50,880 --> 00:48:55,920
a had enough toss before and and please

1103
00:48:53,519 --> 00:48:57,539
do not think that we were bored I mean

1104
00:48:55,920 --> 00:48:59,130
that we didn't have enough to do with

1105
00:48:57,539 --> 00:49:01,110
evolution I mean the evolution the

1106
00:48:59,130 --> 00:49:03,660
anti-evolution movement marches on a

1107
00:49:01,110 --> 00:49:05,700
pace these people have not gone into

1108
00:49:03,659 --> 00:49:07,739
holes and decided they've been looked

1109
00:49:05,699 --> 00:49:09,989
there there's this constant background

1110
00:49:07,739 --> 00:49:12,389
radiation that we have of bills that are

1111
00:49:09,989 --> 00:49:14,579
proposed but especially you know at that

1112

00:49:12,389 --> 00:49:16,679
local level where teachers get leaned on

1113
00:49:14,579 --> 00:49:17,730
where school districts are flirting with

1114
00:49:16,679 --> 00:49:19,469
changing the curriculum

1115
00:49:17,730 --> 00:49:21,480
I mean that is our bread and butter that

1116
00:49:19,469 --> 00:49:23,250
is what we do all the time at NCIC and

1117
00:49:21,480 --> 00:49:26,070
we're going to continue doing that but

1118
00:49:23,250 --> 00:49:27,449
now now that we have mark on staff we're

1119
00:49:26,070 --> 00:49:29,340
going to take on this new issue as well

1120
00:49:27,449 --> 00:49:31,649
and hopefully we'll be able to help

1121
00:49:29,340 --> 00:49:33,869
teachers with it Jeanne is if your job

1122
00:49:31,650 --> 00:49:35,970
wasn't hard enough it's it's elective

1123
00:49:33,869 --> 00:49:38,369
course it is of course it isn't every

1124
00:49:35,969 --> 00:49:39,989
year it really is a what a pleasure it's

1125
00:49:38,369 --> 00:49:43,350
been to visit you once again in this

1126
00:49:39,989 --> 00:49:46,349

wonderful place and I I'll be back next

1127

00:49:43,349 --> 00:49:49,670

year for our annual update I can promise

1128

00:49:46,349 --> 00:49:49,670

you that you do that

1129

00:50:02,210 --> 00:50:07,559

hello on Allah needle on solo scoffs of

1130

00:50:05,489 --> 00:50:09,929

deployment been to an atlas Lunada

1131

00:50:07,559 --> 00:50:15,059

skeptic zone for weed to swap and Katie

1132

00:50:09,929 --> 00:50:26,129

Schneider I'm moving from RC Connor we

1133

00:50:15,059 --> 00:50:28,920

nearly burn skeptics own phone to TV now

1134

00:50:26,130 --> 00:50:34,110

it's time for dr. Rachel reports with

1135

00:50:28,920 --> 00:50:35,519

dr. Rachel Dunlop something a little bit

1136

00:50:34,110 --> 00:50:37,680

different now and thanks to the internet

1137

00:50:35,519 --> 00:50:40,409

we have videos of cats online banking

1138

00:50:37,679 --> 00:50:42,869

and the spread of millions of conspiracy

1139

00:50:40,409 --> 00:50:45,779

theories on just about anything the moon

1140

00:50:42,869 --> 00:50:47,940

landing was faked JFK was shot by a man

1141
00:50:45,780 --> 00:50:50,220
on the grassy knoll princess died was

1142
00:50:47,940 --> 00:50:53,070
murdered by the monarchy September 11

1143
00:50:50,219 --> 00:50:55,769
was an inside job just about every major

1144
00:50:53,070 --> 00:50:57,750
event in history has conspiracy theories

1145
00:50:55,769 --> 00:51:00,239
attached to them with the introduction

1146
00:50:57,750 --> 00:51:02,730
of email and sites like Facebook mere

1147
00:51:00,239 --> 00:51:05,399
rumor now spreads like wildfire around

1148
00:51:02,730 --> 00:51:07,769
the world and experts say conspiracy

1149
00:51:05,400 --> 00:51:10,230
theories are increasing becoming a

1150
00:51:07,769 --> 00:51:12,239
cultural virus well as far as conspiracy

1151
00:51:10,230 --> 00:51:14,099
theories go I owe one for the Nazis

1152
00:51:12,239 --> 00:51:15,359
build a spaceship and a silly in the

1153
00:51:14,099 --> 00:51:17,909
behind the moon there was a second

1154
00:51:15,360 --> 00:51:18,990
government who shot JFK 911 being inside

1155
00:51:17,909 --> 00:51:21,659
Jabba not actually being a terrorist

1156
00:51:18,989 --> 00:51:24,689
attack American loves their conspiracy

1157
00:51:21,659 --> 00:51:27,839
theories it's claimed KFC is run by the

1158
00:51:24,690 --> 00:51:29,820
KKK and makes black men impotent it's

1159
00:51:27,840 --> 00:51:32,010
reported nearly half of americans

1160
00:51:29,820 --> 00:51:34,620
believe global warming is a conspiracy

1161
00:51:32,010 --> 00:51:36,790
and here's Michael Jackson apparently

1162
00:51:34,619 --> 00:51:40,059
getting out of his own coroner's van

1163
00:51:36,789 --> 00:51:42,250
but Australia is no different recently

1164
00:51:40,059 --> 00:51:44,529
an email circulated claiming to show

1165
00:51:42,250 --> 00:51:46,360
proof that our prime minister had once

1166
00:51:44,530 --> 00:51:49,300
claimed in a newsletter to be in a

1167
00:51:46,360 --> 00:51:51,550
lesbian relationship in fact it had been

1168
00:51:49,300 --> 00:51:53,200
faked but many people forwarded the

1169

00:51:51,550 --> 00:51:55,510
email on without checking its

1170
00:51:53,199 --> 00:51:57,519
authenticity it's also been claimed

1171
00:51:55,510 --> 00:52:00,250
Harold Holt was abducted by a Chinese

1172
00:51:57,519 --> 00:52:02,079
submarine and defusing dave thornton and

1173
00:52:00,250 --> 00:52:05,500
both the same person because they never

1174
00:52:02,079 --> 00:52:08,949
on the project at the same time true

1175
00:52:05,500 --> 00:52:10,420
done time to do a little bit of human so

1176
00:52:08,949 --> 00:52:12,939
what draws are still good conspiracy

1177
00:52:10,420 --> 00:52:18,070
theory and why in the information age

1178
00:52:12,940 --> 00:52:19,960
does fiction often win out over fact dr.

1179
00:52:18,070 --> 00:52:21,490
rachel Dunlop is the vice president of

1180
00:52:19,960 --> 00:52:23,710
the Australian skeptics New South Wales

1181
00:52:21,489 --> 00:52:26,859
and if conspiracy is to be believed

1182
00:52:23,710 --> 00:52:28,630
possibly a robot Rachel why are so many

1183
00:52:26,860 --> 00:52:31,780

people drawn to these conspiracy

1184

00:52:28,630 --> 00:52:34,180

theories hi Charlie I'm not a robot a

1185

00:52:31,780 --> 00:52:35,769

lot of people are drawn to conspiracy

1186

00:52:34,179 --> 00:52:37,690

there is because there's so much fun and

1187

00:52:35,769 --> 00:52:39,489

they're fascinating aren't they and I

1188

00:52:37,690 --> 00:52:40,960

mean when you look at probably the real

1189

00:52:39,489 --> 00:52:42,939

explanation for the reason something

1190

00:52:40,960 --> 00:52:45,820

happens it's usually much more simple

1191

00:52:42,940 --> 00:52:47,349

much more boring and I guess it's a bit

1192

00:52:45,820 --> 00:52:49,330

like the truth is out there you know an

1193

00:52:47,349 --> 00:52:50,650

x-files kind of thing is something if

1194

00:52:49,329 --> 00:52:53,230

there something more interesting and

1195

00:52:50,650 --> 00:52:55,019

weird and creepy going on it's much more

1196

00:52:53,230 --> 00:52:57,329

interesting and fun what's the silliest

1197

00:52:55,019 --> 00:52:59,710

conspiracy theory you've ever heard

1198
00:52:57,329 --> 00:53:01,449
Kerry there are so many but I think my

1199
00:52:59,710 --> 00:53:03,159
favorite would have to be the Illuminati

1200
00:53:01,449 --> 00:53:06,639
and the New World Order and this is a

1201
00:53:03,159 --> 00:53:08,170
conspiracy theory that it revolves

1202
00:53:06,639 --> 00:53:09,579
around the idea that there's a bunch of

1203
00:53:08,170 --> 00:53:12,159
people called the New World Order who

1204
00:53:09,579 --> 00:53:14,170
want to take over the world and form one

1205
00:53:12,159 --> 00:53:15,940
government and it also involves the

1206
00:53:14,170 --> 00:53:17,769
Illuminati which involves the

1207
00:53:15,940 --> 00:53:19,840
Rothschilds and the Rockefellers from

1208
00:53:17,769 --> 00:53:21,820
the United States and that it isn't

1209
00:53:19,840 --> 00:53:24,760
people now the lizard people are

1210
00:53:21,820 --> 00:53:28,240
apparently a group of lizard overlords

1211
00:53:24,760 --> 00:53:30,090
who are amongst one of them is George W

1212
00:53:28,239 --> 00:53:32,069
Bush the royal family

1213
00:53:30,090 --> 00:53:34,140
are apparently reptiles living inside

1214
00:53:32,070 --> 00:53:37,260
human skin until one day they can come

1215
00:53:34,139 --> 00:53:39,059
out and take over the world hard to

1216
00:53:37,260 --> 00:53:41,730
believe you he seems to leave that

1217
00:53:39,059 --> 00:53:43,529
Rachel Rachel I've got a friend who's

1218
00:53:41,730 --> 00:53:45,630
probably watching because he's got far

1219
00:53:43,530 --> 00:53:48,090
too much time on his hands people in

1220
00:53:45,630 --> 00:53:50,190
every single conspiracy theory going

1221
00:53:48,090 --> 00:53:53,039
around and I never corrected me is it

1222
00:53:50,190 --> 00:53:54,389
healthy for him just to believe well no

1223
00:53:53,039 --> 00:53:56,429
I mean it can get to a point where

1224
00:53:54,389 --> 00:53:58,139
people become very paranoid and sit in

1225
00:53:56,429 --> 00:54:00,179
their houses with tin foil hat but

1226

00:53:58,139 --> 00:54:01,739
there's a serious side to it as well I

1227
00:54:00,179 --> 00:54:03,509
mean you know there's something like

1228
00:54:01,739 --> 00:54:07,259
fifty percent of americans believe that

1229
00:54:03,510 --> 00:54:08,730
911 was an inside job so it turns out

1230
00:54:07,260 --> 00:54:10,410
now that some people are following these

1231
00:54:08,730 --> 00:54:12,750
conspiracy theories when they're voting

1232
00:54:10,409 --> 00:54:14,579
or when they're choosing health advice

1233
00:54:12,750 --> 00:54:15,900
on the internet like to vaccinate their

1234
00:54:14,579 --> 00:54:17,309
children having something a bit more

1235
00:54:15,900 --> 00:54:20,039
serious now if we could get your answer

1236
00:54:17,309 --> 00:54:25,139
quickly and honestly are you in fact a

1237
00:54:20,039 --> 00:54:26,670
robot there's no evidence to suggest i

1238
00:54:25,139 --> 00:54:28,529
am but you could easily invent a

1239
00:54:26,670 --> 00:54:30,720
conspiracy on the internet and see how

1240
00:54:28,530 --> 00:54:32,970

it goes yes is exactly the kind of

1241
00:54:30,719 --> 00:54:34,469
excuses i would expect from a robot dr.

1242
00:54:32,969 --> 00:54:37,369
rachel done like thank you very much for

1243
00:54:34,469 --> 00:54:37,369
setting a structure nice

1244
00:54:47,639 --> 00:54:52,118
I'm Eugenie Scott executive director of

1245
00:54:50,829 --> 00:54:55,150
the National Center for Science

1246
00:54:52,119 --> 00:54:56,920
Education in Oakland California we

1247
00:54:55,150 --> 00:54:58,750
defend and support the teaching of

1248
00:54:56,920 --> 00:55:00,610
evolution and climate change when it

1249
00:54:58,750 --> 00:55:02,739
comes under attack for religious and

1250
00:55:00,610 --> 00:55:05,170
political reasons we help teachers

1251
00:55:02,739 --> 00:55:07,809
parents school boards and other citizens

1252
00:55:05,170 --> 00:55:11,349
defend good science in the schools come

1253
00:55:07,809 --> 00:55:13,929
visit us at NCC calm and on YouTube and

1254
00:55:11,349 --> 00:55:16,509
Facebook and let us know if science

1255
00:55:13,929 --> 00:55:19,079
comes under attack in your community we

1256
00:55:16,510 --> 00:55:19,080
are here to help

1257
00:55:35,340 --> 00:55:41,280
thank you for listening to episode 171

1258
00:55:38,880 --> 00:55:45,119
of the skeptic zone well I made my way

1259
00:55:41,280 --> 00:55:46,890
he's a market street yes the main street

1260
00:55:45,119 --> 00:55:49,980
I guess you could say of San Francisco

1261
00:55:46,889 --> 00:55:51,920
and it is really alive with action it's

1262
00:55:49,980 --> 00:55:54,599
getting towards knock off time of course

1263
00:55:51,920 --> 00:55:56,340
people are starting to head home but the

1264
00:55:54,599 --> 00:55:59,069
streets are alive there are trams and

1265
00:55:56,340 --> 00:56:02,010
buses taxis and cars and people

1266
00:55:59,070 --> 00:56:03,930
everywhere well on next week's show I'm

1267
00:56:02,010 --> 00:56:05,750
really not sure what we have for your

1268
00:56:03,929 --> 00:56:08,279
next week's show maybe some report from

1269
00:56:05,750 --> 00:56:11,099
some reports from some of our reporters

1270
00:56:08,280 --> 00:56:15,420
i hope i'm going down to visit brian

1271
00:56:11,099 --> 00:56:17,940
dunning maybe a word or two from him but

1272
00:56:15,420 --> 00:56:19,740
for now anyway from downtown San

1273
00:56:17,940 --> 00:56:22,670
Francisco this is Richard Saunders

1274
00:56:19,739 --> 00:56:22,669
signing off

1275
00:56:28,059 --> 00:56:35,449
you've been listening to the skeptic

1276
00:56:30,469 --> 00:56:39,230
zone visit our website at [www skeptics](http://www.skeptics)

1277
00:56:35,449 --> 00:56:42,159
on TV for comments contacts and extra

1278
00:56:39,230 --> 00:56:42,159
video reports