

Episode 741

THE
**SKEPTIC
ZONE**
PODCAST

18 December 2022

www.skepticzone.tv

Dr Eugenie Scott
Part #1
ID/Creationism

Australian Skeptics News
with Adrienne Hill

TROVE
Crystal Power



1
00:00:13,920 --> 00:00:09,049
welcome to the skeptic Zone the podcast

2
00:00:16,900 --> 00:00:13,930
from Australia for science and reason

3
00:00:23,990 --> 00:00:16,910
[Applause]

4
00:00:27,550 --> 00:00:25,790
yes it's the skeptic Zone podcast

5
00:00:32,210 --> 00:00:27,560
episode number

6
00:00:34,610 --> 00:00:32,220
741 for the 18th of December 2022

7
00:00:37,910 --> 00:00:34,620
Richard Saunders coming to you this week

8
00:00:40,250 --> 00:00:37,920
from the Bay Area San Francisco coming

9
00:00:42,170 --> 00:00:40,260
up on this week's show part one of a

10
00:00:45,650 --> 00:00:42,180
two-part interview with my old friend Dr

11
00:00:48,590 --> 00:00:45,660
Eugenie Scott and Eugenie and I talk

12
00:00:50,930 --> 00:00:48,600
about the anniversary of kids miller vs

13
00:00:54,130 --> 00:00:50,940

Dover a very important case in the

14

00:00:57,350 --> 00:00:54,140

ongoing story of a battle between

15

00:00:59,330 --> 00:00:57,360

creationists intelligent designers

16

00:01:02,569 --> 00:00:59,340

and science

17

00:01:05,210 --> 00:01:02,579

although Jeannie looks at the impact of

18

00:01:06,710 --> 00:01:05,220

various religious outlooks on the public

19

00:01:08,570 --> 00:01:06,720

school system

20

00:01:12,770 --> 00:01:08,580

it's always good to be here in the Bay

21

00:01:14,270 --> 00:01:12,780

Area but thank my lucky stars I think my

22

00:01:16,010 --> 00:01:14,280

lucky stars

23

00:01:18,710 --> 00:01:16,020

or lucky something

24

00:01:21,710 --> 00:01:18,720

what good luck I had many years ago to

25

00:01:23,990 --> 00:01:21,720

meet Eugenie Scott and become friends

26

00:01:27,170 --> 00:01:24,000

thank you Genie for uh

27

00:01:29,030 --> 00:01:27,180

for looking after me for a few days

28

00:01:31,310 --> 00:01:29,040

following that it's the Australian

29

00:01:34,850 --> 00:01:31,320

Skeptics newsletter read once again by

30

00:01:36,710 --> 00:01:34,860

Adrian Hill and this week it's a little

31

00:01:39,230 --> 00:01:36,720

longer than normal because Tim Mendham

32

00:01:41,270 --> 00:01:39,240

who writes the newsletter was very busy

33

00:01:44,149 --> 00:01:41,280

and found lots of interesting stories

34

00:01:46,789 --> 00:01:44,159

then to round off the show it's back to

35

00:01:49,130 --> 00:01:46,799

the Trove archives and this week we look

36

00:01:50,569 --> 00:01:49,140

at Crystal healing Crystal power crystal

37

00:01:53,749 --> 00:01:50,579

energy

38

00:01:55,550 --> 00:01:53,759

one of the classics of the new age

39

00:01:58,069 --> 00:01:55,560

but now it's time for me to walk around

40

00:02:01,190 --> 00:01:58,079

the corner in my little apartment here

41

00:02:03,889 --> 00:02:01,200

look into the kitchen and have some

42

00:02:06,100 --> 00:02:03,899

American coffee while I do that I hope

43

00:02:15,190 --> 00:02:06,110

you enjoy the skeptic Zone

44

00:02:30,110 --> 00:02:15,200

[Music]

45

00:02:32,809 --> 00:02:30,120

Eugenie Scott is admiring my microphones

46

00:02:34,490 --> 00:02:32,819

this is a message for Susan gerbig who

47

00:02:37,490 --> 00:02:34,500

listens to this show and always laughs

48

00:02:39,170 --> 00:02:37,500

at me because I've got hello Genie hi

49

00:02:40,550 --> 00:02:39,180

there how are you and Susan this isn't a

50

00:02:42,410 --> 00:02:40,560

completely new microphone as he

51
00:02:44,570 --> 00:02:42,420
explained but it does have some new

52
00:02:47,570 --> 00:02:44,580
bells and whistles so yeah situation

53
00:02:49,550 --> 00:02:47,580
normal Richard's back

54
00:02:51,110 --> 00:02:49,560
and it's just a reminder to those lovely

55
00:02:53,210 --> 00:02:51,120
people who support the skeptic Zone that

56
00:02:54,710 --> 00:02:53,220
your money does go to good use as I was

57
00:02:57,369 --> 00:02:54,720
just explaining the microphone to Genie

58
00:02:59,930 --> 00:02:57,379
and I could see her she was um admiring

59
00:03:02,390 --> 00:02:59,940
the sophisticated equipment this is the

60
00:03:04,550 --> 00:03:02,400
rode Wireless go I don't get any money

61
00:03:05,690 --> 00:03:04,560
from the road company but this is the

62
00:03:08,210 --> 00:03:05,700
microphone we're using at the moment

63
00:03:10,630 --> 00:03:08,220

wonderful to see you again it is lovely

64

00:03:12,949 --> 00:03:10,640

to have you back on this back State Side

65

00:03:14,330 --> 00:03:12,959

Stateside here I am and this is my

66

00:03:17,030 --> 00:03:14,340

favorite time of the year to be in the

67

00:03:18,290 --> 00:03:17,040

Bay Area nice December weather yeah

68

00:03:20,949 --> 00:03:18,300

because you don't like it hot in

69

00:03:25,430 --> 00:03:23,630

let's just switch houses some year okay

70

00:03:26,750 --> 00:03:25,440

because I don't like the cold right and

71

00:03:29,030 --> 00:03:26,760

you don't like the hot so you can come

72

00:03:32,330 --> 00:03:29,040

here and stay here and get the nice cool

73

00:03:34,610 --> 00:03:32,340

you know 40 50 60 degree Northern

74

00:03:37,130 --> 00:03:34,620

California weather and I can bake in

75

00:03:39,649 --> 00:03:37,140

Sydney well it's it's not the baking so

76

00:03:43,550 --> 00:03:39,659

much it's the the humidity that does my

77

00:03:44,930 --> 00:03:43,560

head in oh well oh well never mind so I

78

00:03:47,210 --> 00:03:44,940

wanted to catch up with you a couple of

79

00:03:49,270 --> 00:03:47,220

things uh you mentioned to me the just

80

00:03:52,190 --> 00:03:49,280

the other the day that it's

81

00:03:54,770 --> 00:03:52,200

15 years since the kits Miller versus

82

00:03:56,809 --> 00:03:54,780

Dover and just for people who don't know

83

00:03:59,990 --> 00:03:56,819

briefly can you explain that and why it

84

00:04:02,750 --> 00:04:00,000

was such an important case it's actually

85

00:04:04,490 --> 00:04:02,760

17 years 70 because it would we I was

86

00:04:06,530 --> 00:04:04,500

telling you about the 15-year reunion

87

00:04:08,930 --> 00:04:06,540

but it was really the 15 years plus two

88

00:04:11,630 --> 00:04:08,940

because we had to move it for covered

89

00:04:15,110 --> 00:04:11,640

purposes but no the trial was in 2005

90

00:04:18,650 --> 00:04:15,120

and its significance was that it was the

91

00:04:22,370 --> 00:04:18,660

first and thus far only thank goodness

92

00:04:24,350 --> 00:04:22,380

um uh trial in this case uh District

93

00:04:26,870 --> 00:04:24,360

statement you know District Court a

94

00:04:28,430 --> 00:04:26,880

federal district court of whether it is

95

00:04:30,650 --> 00:04:28,440

legal to teach intelligent design

96

00:04:34,930 --> 00:04:30,660

creationism in the public schools in the

97

00:04:38,870 --> 00:04:34,940

United States and big surprise it wasn't

98

00:04:40,550 --> 00:04:38,880

the judge who best who actually is a

99

00:04:42,650 --> 00:04:40,560

republican judge appointed by a

100

00:04:46,370 --> 00:04:42,660

Republican president

101
00:04:49,730 --> 00:04:46,380
um the uh he had he had actually run for

102
00:04:53,830 --> 00:04:49,740
political office in Pennsylvania uh but

103
00:04:57,469 --> 00:04:53,840
a judge that looked at the evidence

104
00:04:59,950 --> 00:04:57,479
dispassionately and although a

105
00:05:03,710 --> 00:04:59,960
churchgoer himself

106
00:05:05,810 --> 00:05:03,720
did not believe that the First Amendment

107
00:05:08,990 --> 00:05:05,820
of the United States Constitution The

108
00:05:10,370 --> 00:05:09,000
Establishment Clause thereof allows the

109
00:05:13,310 --> 00:05:10,380
teaching of

110
00:05:14,870 --> 00:05:13,320
what is basically a disguised religious

111
00:05:16,610 --> 00:05:14,880
idea as

112
00:05:19,670 --> 00:05:16,620
um as science

113
00:05:21,530 --> 00:05:19,680

or any other discipline you cannot

114

00:05:23,450 --> 00:05:21,540

Advocate religion in the public schools

115

00:05:26,990 --> 00:05:23,460

of the United States full stop

116

00:05:29,150 --> 00:05:27,000

uh that unfortunately may be changing

117

00:05:30,529 --> 00:05:29,160

um because we've had this is the first

118

00:05:33,770 --> 00:05:30,539

time I've talked about it on a podcast

119

00:05:36,650 --> 00:05:33,780

so you are there you go there was a case

120

00:05:39,409 --> 00:05:36,660

this last spring yeah

121

00:05:40,790 --> 00:05:39,419

um Kennedy versus Bremerton Supreme

122

00:05:44,150 --> 00:05:40,800

Court case

123

00:05:46,790 --> 00:05:44,160

where the issue involved the

124

00:05:49,189 --> 00:05:46,800

um religious rights if you will of a

125

00:05:52,610 --> 00:05:49,199

high school football coach who wanted to

126

00:05:55,189 --> 00:05:52,620

pray on the on the football field after

127

00:05:57,290 --> 00:05:55,199

the game yes yeah well it was a big case

128

00:05:59,390 --> 00:05:57,300

but one of the things that might not

129

00:06:01,610 --> 00:05:59,400

have been noticed by a lot of people but

130

00:06:04,150 --> 00:06:01,620

which everybody on my side of the

131

00:06:07,490 --> 00:06:04,160

creation and evolution issue

132

00:06:10,909 --> 00:06:07,500

noticed right away is that the

133

00:06:14,210 --> 00:06:10,919

uh the Justice writing the case

134

00:06:16,730 --> 00:06:14,220

um said that it basically dismissed an

135

00:06:19,969 --> 00:06:16,740

earlier precedent a case called Lemon

136

00:06:25,129 --> 00:06:19,979

versus kurtzman I think 1975 could it be

137

00:06:27,710 --> 00:06:25,139

74. 74. uh the lemon case had been the

138

00:06:30,230 --> 00:06:27,720

Supreme Court case that

139

00:06:32,330 --> 00:06:30,240

The Supremes and all district courts and

140

00:06:37,670 --> 00:06:32,340

every other court in the country has

141

00:06:39,890 --> 00:06:37,680

used as a Criterion for a criteria for

142

00:06:41,990 --> 00:06:39,900

how you judge whether a law or a

143

00:06:45,550 --> 00:06:42,000

practice violates the First Amendment

144

00:06:47,930 --> 00:06:45,560

The Establishment Clause so if the law

145

00:06:49,189 --> 00:06:47,940

well you know there's no point in going

146

00:06:52,909 --> 00:06:49,199

through the test but at any rate it's

147

00:06:56,689 --> 00:06:52,919

been a super important issue because

148

00:06:58,670 --> 00:06:56,699

every single case that's been that's

149

00:07:00,890 --> 00:06:58,680

come since the 70s

150

00:07:03,050 --> 00:07:00,900

about the legality of teaching

151

00:07:05,270 --> 00:07:03,060

creationism has been based upon Lemon

152

00:07:07,730 --> 00:07:05,280

versus kurtzman right and all of a

153

00:07:09,370 --> 00:07:07,740

sudden the Supreme Court says Nope you

154

00:07:12,050 --> 00:07:09,380

can't use that as president anymore

155

00:07:14,450 --> 00:07:12,060

instead of using this three-part test

156

00:07:16,790 --> 00:07:14,460

for uh for

157

00:07:18,830 --> 00:07:16,800

um Establishment Clause issues

158

00:07:20,210 --> 00:07:18,840

we're going to look at history and

159

00:07:24,170 --> 00:07:20,220

tradition

160

00:07:26,809 --> 00:07:24,180

now that is around that is a recipe for

161

00:07:29,390 --> 00:07:26,819

disaster that that is that is throwing

162

00:07:32,689 --> 00:07:29,400

up a big neon sign flashing cherry pick

163

00:07:34,730 --> 00:07:32,699

your heart out uh because

164

00:07:36,409 --> 00:07:34,740

um whereas the lemon test said you know

165

00:07:39,070 --> 00:07:36,419

if it does this if it does that does

166

00:07:40,730 --> 00:07:39,080

does that then it's unconstitutional

167

00:07:45,469 --> 00:07:40,740

the

168

00:07:48,230 --> 00:07:45,479

does that mean does that mean that

169

00:07:49,490 --> 00:07:48,240

it was it was history and tradition back

170

00:07:53,570 --> 00:07:49,500

in the

171

00:07:55,969 --> 00:07:53,580

um when

172

00:07:58,490 --> 00:07:55,979

um uh pretty much you had to be a

173

00:08:00,110 --> 00:07:58,500

Christian in the United States which

174

00:08:01,070 --> 00:08:00,120

does not make this a Christian Nation by

175

00:08:02,390 --> 00:08:01,080

the way and that's another little

176

00:08:06,589 --> 00:08:02,400

argument

177

00:08:08,629 --> 00:08:06,599

um uh and when you know when uh prayer

178

00:08:10,189 --> 00:08:08,639

took place in there really wasn't a

179

00:08:12,650 --> 00:08:10,199

public school system of course that was

180

00:08:15,110 --> 00:08:12,660

much later uh but where you know was

181

00:08:17,930 --> 00:08:15,120

traditional to pray uh all the time to

182

00:08:20,089 --> 00:08:17,940

pray in school and they would there was

183

00:08:22,909 --> 00:08:20,099

no science being taught there was no

184

00:08:24,589 --> 00:08:22,919

Evolution being taught and uh if anybody

185

00:08:26,029 --> 00:08:24,599

wanted to know how did the Earth get

186

00:08:28,309 --> 00:08:26,039

here teacher

187

00:08:30,409 --> 00:08:28,319

um it was because God went poof you know

188

00:08:32,690 --> 00:08:30,419

special creation was considered how

189

00:08:34,310 --> 00:08:32,700

everything came about so is that history

190

00:08:38,810 --> 00:08:34,320

and tradition is that what we should go

191

00:08:41,649 --> 00:08:38,820

back to no so it is very scary and I'm

192

00:08:45,590 --> 00:08:41,659

I'm sure it's not just those of us on

193

00:08:48,889 --> 00:08:45,600

our side of this issue who are saying uh

194

00:08:50,449 --> 00:08:48,899

oh what's going to happen next does this

195

00:08:53,750 --> 00:08:50,459

mean the creationists are going to gear

196

00:08:56,329 --> 00:08:53,760

up again for future attacks on the

197

00:08:59,710 --> 00:08:56,339

public schools to try to get creationism

198

00:09:02,329 --> 00:08:59,720

back in or try to get you know Evolution

199

00:09:03,970 --> 00:09:02,339

discredited which is the you know what

200

00:09:06,769 --> 00:09:03,980

they have been doing although you know

201
00:09:09,590 --> 00:09:06,779
the the quite honestly you were asking

202
00:09:12,170 --> 00:09:09,600
we got started on this rant by talking

203
00:09:14,930 --> 00:09:12,180
about what is the significance of kid

204
00:09:18,350 --> 00:09:14,940
smeller well the main significance is

205
00:09:20,889 --> 00:09:18,360
that the traditional creation science

206
00:09:24,949 --> 00:09:20,899
special creation young Earth creationism

207
00:09:26,449 --> 00:09:24,959
that is pretty familiar and found in a

208
00:09:29,329 --> 00:09:26,459
number of museums in the United States

209
00:09:30,650 --> 00:09:29,339
that had pretty much been smacked down

210
00:09:33,110 --> 00:09:30,660
out of the schools they're they're

211
00:09:34,790 --> 00:09:33,120
really there really weren't any policies

212
00:09:36,710 --> 00:09:34,800
coming up saying well we should teach

213
00:09:38,210 --> 00:09:36,720

that the Earth was created in six days

214

00:09:40,550 --> 00:09:38,220

you know nobody was saying that anymore

215

00:09:42,769 --> 00:09:40,560

because that had been dispatched with in

216

00:09:45,170 --> 00:09:42,779

the courts but this newfangled

217

00:09:48,889 --> 00:09:45,180

intelligent design creation which popped

218

00:09:50,930 --> 00:09:48,899

up around the late 80s and that long ago

219

00:09:53,030 --> 00:09:50,940

yeah yeah but it really didn't get going

220

00:09:56,570 --> 00:09:53,040

until the 90s and the 2000s right

221

00:09:57,949 --> 00:09:56,580

kismillah was 2005. yeah so you know 17

222

00:10:00,470 --> 00:09:57,959

years

223

00:10:03,410 --> 00:10:00,480

um but this newfangled creation science

224

00:10:05,389 --> 00:10:03,420

it was sorry intelligent design it was

225

00:10:07,370 --> 00:10:05,399

marketed as something and Now for

226

00:10:09,230 --> 00:10:07,380

Something Completely Different right and

227

00:10:12,710 --> 00:10:09,240

it was supposed to be

228

00:10:14,329 --> 00:10:12,720

um not not that old creation science

229

00:10:16,430 --> 00:10:14,339

stuff this is you know this is

230

00:10:18,650 --> 00:10:16,440

intelligent design well it was you know

231

00:10:21,230 --> 00:10:18,660

it was just a subset of creation science

232

00:10:23,389 --> 00:10:21,240

quite honestly I remember interviewing

233

00:10:25,130 --> 00:10:23,399

you before some years ago one of the

234

00:10:27,230 --> 00:10:25,140

things that always stuck in in my mind

235

00:10:29,570 --> 00:10:27,240

was you mentioned a book that was

236

00:10:31,550 --> 00:10:29,580

produced for intelligent design where

237

00:10:34,190 --> 00:10:31,560

the computer and simply removed the word

238

00:10:36,650 --> 00:10:34,200

creationism out or something that was

239

00:10:40,269 --> 00:10:36,660

one of the um one of the things that we

240

00:10:44,569 --> 00:10:40,279

pointed out in the Kitzmiller versions

241

00:10:46,370 --> 00:10:44,579

We had managed to acquire

242

00:10:47,690 --> 00:10:46,380

um through you know requesting through

243

00:10:50,569 --> 00:10:47,700

the courts

244

00:10:53,750 --> 00:10:50,579

um under um you know in preparation for

245

00:10:57,590 --> 00:10:53,760

the trial we had managed to acquire a

246

00:10:59,329 --> 00:10:57,600

series of drafts of manuscripts of a

247

00:11:02,030 --> 00:10:59,339

textbook that the intelligent design

248

00:11:05,590 --> 00:11:02,040

proponents had produced called of pandas

249

00:11:09,290 --> 00:11:05,600

and people or opap as we referred to it

250

00:11:12,889 --> 00:11:09,300

regularly but we were able to show that

251
00:11:14,930 --> 00:11:12,899
uh pandas and people had started out as

252
00:11:16,790 --> 00:11:14,940
a creation science book you know and

253
00:11:19,550 --> 00:11:16,800
they they talked about a Creator doing

254
00:11:21,710 --> 00:11:19,560
this and that and and as the you know

255
00:11:24,230 --> 00:11:21,720
manuscripts went through various issues

256
00:11:30,110 --> 00:11:24,240
various episodes of refinement

257
00:11:33,829 --> 00:11:30,120
in 1987 when the Supreme Court came up

258
00:11:35,569 --> 00:11:33,839
with its um Louisiana decision uh

259
00:11:38,030 --> 00:11:35,579
striking down the teaching of creation

260
00:11:40,670 --> 00:11:38,040
science in the public schools suddenly

261
00:11:43,790 --> 00:11:40,680
the next episode you know the next

262
00:11:46,490 --> 00:11:43,800
manuscript after the uh that particular

263
00:11:48,590 --> 00:11:46,500

court decision changed wording in a very

264

00:11:51,670 --> 00:11:48,600

particular way

265

00:11:55,790 --> 00:11:51,680

um rather the the explicitly creationist

266

00:11:57,829 --> 00:11:55,800

uh language was uh was taken out and it

267

00:11:59,870 --> 00:11:57,839

was very clear when because we we could

268

00:12:02,090 --> 00:11:59,880

we could literally Trace sentence by

269

00:12:03,889 --> 00:12:02,100

sentence changes and there was one

270

00:12:06,470 --> 00:12:03,899

change that that a lot of people know

271

00:12:08,930 --> 00:12:06,480

about because it is so funny but which

272

00:12:11,090 --> 00:12:08,940

we actually didn't use in the trial

273

00:12:13,370 --> 00:12:11,100

because we figured it was just Overkill

274

00:12:15,769 --> 00:12:13,380

I mean we had already showed so many

275

00:12:18,410 --> 00:12:15,779

ways that of pandas and people the

276

00:12:20,930 --> 00:12:18,420

intelligent design textbook right was

277

00:12:22,730 --> 00:12:20,940

clearly rooted in creation science and

278

00:12:27,050 --> 00:12:22,740

it was just trying to disguise itself

279

00:12:28,370 --> 00:12:27,060

but there was this one passage where the

280

00:12:30,290 --> 00:12:28,380

which is I think what you're talking

281

00:12:33,829 --> 00:12:30,300

about where

282

00:12:36,430 --> 00:12:33,839

um the uh phrase in the in the earlier

283

00:12:39,829 --> 00:12:36,440

manuscript said you know

284

00:12:41,690 --> 00:12:39,839

creationists propose such and such and

285

00:12:42,829 --> 00:12:41,700

somebody had just done a block and paste

286

00:12:44,509 --> 00:12:42,839

yes

287

00:12:47,210 --> 00:12:44,519

um and generally speaking throughout the

288

00:12:49,370 --> 00:12:47,220

manuscript where it had previously said

289

00:12:51,470 --> 00:12:49,380

creationists proposed it now said

290

00:12:54,530 --> 00:12:51,480

intelligent design proponents propose

291

00:12:57,050 --> 00:12:54,540

except this one place where they just

292

00:12:59,269 --> 00:12:57,060

must have been in a hurry and where I

293

00:13:01,430 --> 00:12:59,279

guess the you know the word processing

294

00:13:03,170 --> 00:13:01,440

software was not as effects as efficient

295

00:13:06,009 --> 00:13:03,180

as it became later and it was literally

296

00:13:09,530 --> 00:13:06,019

black and paste some of us remember

297

00:13:11,990 --> 00:13:09,540

but they pasted in uh Intel you know

298

00:13:14,030 --> 00:13:12,000

design proponents but they kind of did

299

00:13:16,730 --> 00:13:14,040

it in the middle of the word so instead

300

00:13:20,150 --> 00:13:16,740

of design proponents propose it was

301

00:13:21,650 --> 00:13:20,160

could design proponentsists sort of

302

00:13:24,050 --> 00:13:21,660

plopping down in the middle of the word

303

00:13:26,750 --> 00:13:24,060

creationism which you know tickled Us

304

00:13:30,110 --> 00:13:26,760

near to death but we thought

305

00:13:32,329 --> 00:13:30,120

you know if if we put this in the in the

306

00:13:34,550 --> 00:13:32,339

trial as well the judge is just going to

307

00:13:36,650 --> 00:13:34,560

think we're piling on right and you know

308

00:13:38,930 --> 00:13:36,660

we and and because it is just so silly

309

00:13:42,590 --> 00:13:38,940

and ridiculous we we didn't want to

310

00:13:45,410 --> 00:13:42,600

change the tenor of our of our um uh

311

00:13:47,269 --> 00:13:45,420

approach you know we wanted them to we

312

00:13:49,730 --> 00:13:47,279

we wanted the judge to think that we

313

00:13:51,889 --> 00:13:49,740

were serious Scholars Etc et cetera but

314

00:13:54,170 --> 00:13:51,899

so funny no it's good that is just so

315

00:13:56,150 --> 00:13:54,180

funny yeah so

316

00:13:57,949 --> 00:13:56,160

um kids miller isn't still an important

317

00:14:01,370 --> 00:13:57,959

case because it basically kept

318

00:14:02,629 --> 00:14:01,380

intelligent design from spreading there

319

00:14:05,090 --> 00:14:02,639

were several

320

00:14:07,550 --> 00:14:05,100

um states that we knew of that were

321

00:14:08,810 --> 00:14:07,560

poised to introduce legislation there

322

00:14:10,610 --> 00:14:08,820

were some school districts that we

323

00:14:13,310 --> 00:14:10,620

already knew about that were all ready

324

00:14:17,930 --> 00:14:13,320

to LEAP into similar policies that the

325

00:14:21,190 --> 00:14:17,940

Dover School Board had proposed but once

326

00:14:26,389 --> 00:14:21,200

the district court decision came down

327

00:14:31,430 --> 00:14:28,370

I don't know I don't keep my finger on

328

00:14:33,410 --> 00:14:31,440

the pulse of the creationism as much as

329

00:14:35,269 --> 00:14:33,420

we used to in Australia especially

330

00:14:37,730 --> 00:14:35,279

because it's faded away it's faded away

331

00:14:39,590 --> 00:14:37,740

so much and should we be celebrating or

332

00:14:41,930 --> 00:14:39,600

is this a lull before the storm or

333

00:14:43,850 --> 00:14:41,940

what's this what's the situation and how

334

00:14:45,470 --> 00:14:43,860

are the how is the national Center for

335

00:14:47,810 --> 00:14:45,480

Science Education doing at the moment

336

00:14:49,490 --> 00:14:47,820

with all this oh they're doing fine um

337

00:14:51,710 --> 00:14:49,500

they have actually shifted a lot of

338

00:14:54,410 --> 00:14:51,720

their focus in the last

339

00:14:58,269 --> 00:14:54,420

um you know 10 years or so

340

00:15:01,069 --> 00:14:58,279

um from as much uh fighting creationism

341

00:15:04,009 --> 00:15:01,079

to helping teachers do a better job

342

00:15:07,250 --> 00:15:04,019

teaching of evolution of climate change

343

00:15:10,129 --> 00:15:07,260

of you know the nature of science which

344

00:15:13,430 --> 00:15:10,139

is good you know it we we always used to

345

00:15:15,769 --> 00:15:13,440

talk against at ncsc about you know we

346

00:15:17,389 --> 00:15:15,779

we hand out the fire extinguishers but

347

00:15:18,670 --> 00:15:17,399

what we really would like to do is clear

348

00:15:21,170 --> 00:15:18,680

the brush

349

00:15:23,689 --> 00:15:21,180

this is brush clearance stitch in time

350

00:15:26,810 --> 00:15:23,699

saves nine right well this is helping

351

00:15:30,949 --> 00:15:26,820

the teachers do a better job so that the

352

00:15:33,850 --> 00:15:30,959

brush fires don't start yeah so um uh

353

00:15:35,990 --> 00:15:33,860

you said the the pressure against

354

00:15:37,970 --> 00:15:36,000

teachers the pressure against school

355

00:15:40,790 --> 00:15:37,980

boards has diminished greatly in the

356

00:15:43,370 --> 00:15:40,800

last 10 years and it even started

357

00:15:45,590 --> 00:15:43,380

diminishing when uh when I was still at

358

00:15:48,769 --> 00:15:45,600

ncsc and that was you know I retired in

359

00:15:51,290 --> 00:15:48,779

2014 so you know that was a while ago

360

00:15:53,629 --> 00:15:51,300

um but uh and there you know there still

361

00:15:56,150 --> 00:15:53,639

have been every year there's still state

362

00:15:58,550 --> 00:15:56,160

legislatures that pass anti-science

363

00:16:00,769 --> 00:15:58,560

stuff and some of these more of them

364

00:16:03,290 --> 00:16:00,779

dealt with with climate change than

365

00:16:05,930 --> 00:16:03,300

evolution in the last 10 years

366

00:16:07,310 --> 00:16:05,940

and now we've got Kennedy versus

367

00:16:09,769 --> 00:16:07,320

Bremerton

368

00:16:11,210 --> 00:16:09,779

that's that case that I was describing

369

00:16:13,970 --> 00:16:11,220

with you know the high school football

370

00:16:17,210 --> 00:16:13,980

coach and the Striking down of Lemon

371

00:16:21,170 --> 00:16:17,220

versus kurtzman as a major

372

00:16:23,269 --> 00:16:21,180

um bulwark against Establishment Clause

373

00:16:25,310 --> 00:16:23,279

um uh violations

374

00:16:27,590 --> 00:16:25,320

so what is going to happen we're not

375

00:16:30,110 --> 00:16:27,600

going to go out and say try again but

376

00:16:31,970 --> 00:16:30,120

I'm sure the creationists have noticed

377

00:16:36,889 --> 00:16:31,980

they're not

378

00:16:39,650 --> 00:16:36,899

attention to these kinds of decisions so

379

00:16:40,610 --> 00:16:39,660

I would not be at all surprised if in

380

00:16:43,990 --> 00:16:40,620

some

381

00:16:46,370 --> 00:16:44,000

future Dover type School Board situation

382

00:16:50,569 --> 00:16:46,380

there isn't a

383

00:16:53,689 --> 00:16:50,579

or in some you know State Board of

384

00:16:56,389 --> 00:16:53,699

Education there isn't an effort to try

385

00:16:58,009 --> 00:16:56,399

to either propose some kind of

386

00:16:59,829 --> 00:16:58,019

creationism

387

00:17:02,150 --> 00:16:59,839

or

388

00:17:03,889 --> 00:17:02,160

try to diminish the teaching of

389

00:17:05,870 --> 00:17:03,899

evolution

390

00:17:08,890 --> 00:17:05,880

and I'm kind of leaning a little bit

391

00:17:11,630 --> 00:17:08,900

toward the ladder quite honestly because

392

00:17:13,250 --> 00:17:11,640

remember the if you don't remember

393

00:17:15,590 --> 00:17:13,260

you're not an American you don't have to

394

00:17:17,569 --> 00:17:15,600

remember but in the first amendment's

395

00:17:21,850 --> 00:17:17,579

religion clause it's got two parts oh

396

00:17:25,429 --> 00:17:21,860

yes the establishment it is no State

397

00:17:29,390 --> 00:17:25,439

admin agency can establish or promote

398

00:17:31,909 --> 00:17:29,400

religion in a public context and two the

399

00:17:33,909 --> 00:17:31,919

free exercise clause which means that no

400

00:17:36,770 --> 00:17:33,919

state agency or our body of government

401
00:17:39,230 --> 00:17:36,780
can inhibit the practice of religion

402
00:17:41,810 --> 00:17:39,240
right okay which is very important right

403
00:17:44,529 --> 00:17:41,820
you know we we want neutrality from our

404
00:17:46,970 --> 00:17:44,539
governments when it comes to religion

405
00:17:49,060 --> 00:17:46,980
unlike many nations around the world

406
00:17:50,270 --> 00:17:49,070
that's part of our history and tradition

407
00:17:53,150 --> 00:17:50,280
[Music]

408
00:17:54,169 --> 00:17:53,160
so if you look at the current Supreme

409
00:17:58,730 --> 00:17:54,179
Court

410
00:18:01,970 --> 00:17:58,740
their major Focus has largely been on

411
00:18:03,590 --> 00:18:01,980
free exercise issues they kind of been

412
00:18:11,029 --> 00:18:03,600
shoving

413
00:18:14,870 --> 00:18:11,039

of the free exercise clause

414

00:18:17,750 --> 00:18:14,880

and it would seem to me that

415

00:18:19,730 --> 00:18:17,760

there would I'm not going to suggest it

416

00:18:23,810 --> 00:18:19,740

for creationists let them do their own

417

00:18:25,549 --> 00:18:23,820

legal work you know I'm not a lawyer I

418

00:18:27,710 --> 00:18:25,559

always say don't take legal advice from

419

00:18:30,169 --> 00:18:27,720

a physical Anthropologist

420

00:18:32,750 --> 00:18:30,179

um but I would not be surprised if they

421

00:18:36,409 --> 00:18:32,760

weren't as we speak cooking up some kind

422

00:18:38,930 --> 00:18:36,419

of free exercise angle okay to go after

423

00:18:41,930 --> 00:18:38,940

Evolution because frankly if they just

424

00:18:43,850 --> 00:18:41,940

get Evolution out they win they don't

425

00:18:46,070 --> 00:18:43,860

have to get creative they've never had

426

00:18:49,250 --> 00:18:46,080

to get creationism in the only reason

427

00:18:52,789 --> 00:18:49,260

they went to try to promote creationism

428

00:18:55,549 --> 00:18:52,799

and intelligent design creationism is

429

00:18:58,010 --> 00:18:55,559

because Evolution was there if you get

430

00:18:59,470 --> 00:18:58,020

rid of evolution or you discredit it to

431

00:19:01,250 --> 00:18:59,480

the level that

432

00:19:03,070 --> 00:19:01,260

students aren't going to take it

433

00:19:07,090 --> 00:19:03,080

seriously you win

434

00:19:11,990 --> 00:19:07,100

so that has been their approach post

435

00:19:13,430 --> 00:19:12,000

Dover post kits Miller since 2005 and I

436

00:19:15,110 --> 00:19:13,440

think they're going to ramp that up and

437

00:19:16,310 --> 00:19:15,120

try to formalize it

438

00:19:21,110 --> 00:19:16,320

so watch this space

439

00:19:26,990 --> 00:19:23,630

next week in week in part two of my chat

440

00:19:29,990 --> 00:19:27,000

with Dr Eugenie Scott we talk about the

441

00:19:33,110 --> 00:19:30,000

ancient apocalypse Circle documentary

442

00:19:36,250 --> 00:19:33,120

series on Netflix is it just rehashing

443

00:19:37,810 --> 00:19:36,260

Ancient Aliens and eugenie's thoughts on

444

00:19:39,800 --> 00:19:37,820

debating

445

00:19:51,970 --> 00:19:39,810

creationists

446

00:19:57,529 --> 00:19:55,130

hi this is Rob Palmer I write the

447

00:20:00,230 --> 00:19:57,539

well-known skeptic column in skeptical

448

00:20:01,909 --> 00:20:00,240

Inquirer online and I'm a team member of

449

00:20:05,810 --> 00:20:01,919

the Guerrilla Skeptics on Wikipedia

450

00:20:07,610 --> 00:20:05,820

project gsow but you find folks may know

451
00:20:10,190 --> 00:20:07,620
me because I contributed segments for

452
00:20:12,890 --> 00:20:10,200
several episodes of this podcast

453
00:20:17,090 --> 00:20:12,900
check out my interviews from scicon2019

454
00:20:19,370 --> 00:20:17,100
starting with episode 576 so here's a

455
00:20:21,470 --> 00:20:19,380
little known fact all of my skeptical

456
00:20:24,590 --> 00:20:21,480
activism stems from discovering the

457
00:20:28,130 --> 00:20:24,600
skeptic Zone yep I first heard of the

458
00:20:30,169 --> 00:20:28,140
gslw project right here back in 2012 due

459
00:20:31,789 --> 00:20:30,179
to Richard's selfless support event and

460
00:20:34,909 --> 00:20:31,799
other skeptical activities around the

461
00:20:37,250 --> 00:20:34,919
world I can honestly say I'd likely

462
00:20:40,010 --> 00:20:37,260
still be a skeptical Couch Potato if I

463
00:20:42,470 --> 00:20:40,020

hadn't discovered this podcast

464

00:20:44,750 --> 00:20:42,480

so besides giving back to the Zone by

465

00:20:46,190 --> 00:20:44,760

contributing occasional segments I

466

00:20:48,950 --> 00:20:46,200

contribute to the success of the show

467

00:20:50,930 --> 00:20:48,960

with ongoing monthly micropayments and

468

00:20:53,390 --> 00:20:50,940

I'm asking you to consider doing the

469

00:20:55,750 --> 00:20:53,400

same you can do that by following the

470

00:20:58,909 --> 00:20:55,760

patreon or PayPal Links at

471

00:21:00,590 --> 00:20:58,919

skepticzone.tv every donation supports

472

00:21:03,590 --> 00:21:00,600

the show and Richard will really

473

00:21:03,600 --> 00:21:13,050

foreign

474

00:21:30,770 --> 00:21:27,909

[Music]

475

00:21:32,810 --> 00:21:30,780

this is Adrian Hill from Canada here

476

00:21:34,909 --> 00:21:32,820

again to read the highlights from the

477

00:21:38,870 --> 00:21:34,919

Australian Skeptics newsletter

478

00:21:40,549 --> 00:21:38,880

this is newsletter number 163. you can

479

00:21:42,649 --> 00:21:40,559

subscribe to this newsletter and get it

480

00:21:44,750 --> 00:21:42,659

delivered to your inbox every other week

481

00:21:50,330 --> 00:21:44,760

complete with links to all the stories

482

00:21:55,549 --> 00:21:53,210

but now let's see what Tim Mendham has

483

00:21:58,130 --> 00:21:55,559

for us this week

484

00:22:01,010 --> 00:21:58,140

hi all says Tim

485

00:22:02,930 --> 00:22:01,020

skepticon 2022 is over and we're sure

486

00:22:05,630 --> 00:22:02,940

that everyone attending in person and

487

00:22:07,210 --> 00:22:05,640

online found it a varied interesting and

488

00:22:09,350 --> 00:22:07,220

inspiring event

489

00:22:11,330 --> 00:22:09,360

attendees will be able to view the

490

00:22:13,250 --> 00:22:11,340

recorded sessions soon

491

00:22:16,130 --> 00:22:13,260

next year's skepticon will be in

492

00:22:17,870 --> 00:22:16,140

Melbourne keep your eyes peeled for date

493

00:22:20,090 --> 00:22:17,880

and venue

494

00:22:23,990 --> 00:22:20,100

note that this is the last newsletter

495

00:22:27,470 --> 00:22:24,000

for 2022. all we'll be back mid-January

496

00:22:29,690 --> 00:22:27,480

in the interim enjoy the holiday season

497

00:22:32,570 --> 00:22:29,700

and think about those poor psychics

498

00:22:35,990 --> 00:22:32,580

referred to later who obviously have no

499

00:22:41,130 --> 00:22:36,000

idea what they're getting for Christmas

500

00:22:44,289 --> 00:22:41,140

read on Tim okay Tim we'll do just that

501
00:22:48,190 --> 00:22:44,299
[Music]

502
00:22:51,110 --> 00:22:48,200
non-doctor Maria Carmela Powell wins

503
00:22:56,930 --> 00:22:51,120
2022 bent spoon

504
00:22:59,090 --> 00:22:56,940
coveted prize in the skeptical world has

505
00:23:01,909 --> 00:22:59,100
gone to Queensland fake medical doctor

506
00:23:04,010 --> 00:23:01,919
Maria Carmela Powell for Distributing

507
00:23:06,710 --> 00:23:04,020
coveted related exemptions and

508
00:23:09,770 --> 00:23:06,720
reportedly pocketing about a hundred and

509
00:23:12,950 --> 00:23:09,780
twenty thousand dollars for issuing 1200

510
00:23:15,230 --> 00:23:12,960
useless certificates Powell pleaded

511
00:23:18,049 --> 00:23:15,240
guilty in Southport magistrates Court in

512
00:23:19,430 --> 00:23:18,059
July to pretending to be a doctor and

513
00:23:22,250 --> 00:23:19,440

aiding people trying to dodge

514

00:23:23,930 --> 00:23:22,260

coronavirus restrictions she has a

515

00:23:26,390 --> 00:23:23,940

doctorate in professional research

516

00:23:28,730 --> 00:23:26,400

studies and also a master's degree in

517

00:23:31,850 --> 00:23:28,740

public health but that doesn't qualify

518

00:23:34,310 --> 00:23:31,860

her to act as a medical doctor despite

519

00:23:36,230 --> 00:23:34,320

her Barrister saying she might have been

520

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

confused

521

00:23:41,090 --> 00:23:38,580

she also markets herself as an actress

522

00:23:43,850 --> 00:23:41,100

and model and has previously been

523

00:23:45,890 --> 00:23:43,860

described in court as a spiritual

524

00:23:48,529 --> 00:23:45,900

insights coach

525

00:23:50,750 --> 00:23:48,539

she had faced a maximum penalty of a

526

00:23:53,390 --> 00:23:50,760

sixty thousand dollar fine and three

527

00:23:57,010 --> 00:23:53,400

years imprisonment however acting

528

00:24:00,590 --> 00:23:57,020

magistrate Mark bambury Fine pow 25 000

529

00:24:02,450 --> 00:24:00,600

and no conviction was recorded there is

530

00:24:03,770 --> 00:24:02,460

no report on what happened to the rest

531

00:24:05,630 --> 00:24:03,780

of the hundred and twenty thousand

532

00:24:06,630 --> 00:24:05,640

dollars she earned with the false

533

00:24:09,770 --> 00:24:06,640

exemptions

534

00:24:14,690 --> 00:24:12,710

parents who refused A vaccinated blood

535

00:24:17,090 --> 00:24:14,700

transfusion

536

00:24:19,490 --> 00:24:17,100

such a sad story

537

00:24:21,289 --> 00:24:19,500

a baby in New Zealand has been placed in

538

00:24:23,570 --> 00:24:21,299

his doctor's care because his parents

539

00:24:27,590 --> 00:24:23,580

refused to consent to a transfusion of

540

00:24:29,330 --> 00:24:27,600

quote vaccinated blood end quote in a

541

00:24:31,669 --> 00:24:29,340

life-saving operation

542

00:24:33,649 --> 00:24:31,679

the judge noted that New Zealand's Blood

543

00:24:36,350 --> 00:24:33,659

Service had presented evidence from the

544

00:24:38,390 --> 00:24:36,360

past six months of a quote significant

545

00:24:40,730 --> 00:24:38,400

increase in potential blood recipients

546

00:24:44,529 --> 00:24:40,740

asking for blood from unvaccinated

547

00:24:47,330 --> 00:24:44,539

donors or asking about directed donation

548

00:24:49,010 --> 00:24:47,340

similar Trends have been noted in other

549

00:24:51,110 --> 00:24:49,020

countries end quote

550

00:24:53,870 --> 00:24:51,120

how unfortunate

551
00:24:54,840 --> 00:24:53,880
debunking autism myths rewarded with

552
00:24:56,270 --> 00:24:54,850
national prize

553
00:24:58,669 --> 00:24:56,280
[Music]

554
00:25:00,950 --> 00:24:58,679
a university of Queensland PhD student

555
00:25:02,990 --> 00:25:00,960
has been awarded a national prize for

556
00:25:04,789 --> 00:25:03,000
debunking a common myth about children

557
00:25:07,610 --> 00:25:04,799
with autism

558
00:25:09,770 --> 00:25:07,620
Chloe Yap from uq's Institute for

559
00:25:13,909 --> 00:25:09,780
molecular bioscience and made her

560
00:25:16,789 --> 00:25:13,919
research won the 2022 CSL Florey Next

561
00:25:19,010 --> 00:25:16,799
Generation award which includes a prize

562
00:25:21,890 --> 00:25:19,020
of twenty thousand dollars for busting

563
00:25:25,250 --> 00:25:21,900

the myth that the gut microbiome causes

564

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

autism Ms Yap and her colleagues found

565

00:25:29,870 --> 00:25:27,120

that changes in gut bacteria in children

566

00:25:33,730 --> 00:25:29,880

with autism are instead caused by their

567

00:25:38,149 --> 00:25:33,740

eating habits wow interesting

568

00:25:40,549 --> 00:25:38,159

Q anons anti-vaxxer murder Theory

569

00:25:42,590 --> 00:25:40,559

members of the Q Anon conspiracy

570

00:25:45,649 --> 00:25:42,600

movement have suggested that the actress

571

00:25:48,890 --> 00:25:45,659

Kirsty alley was murdered because of her

572

00:25:50,930 --> 00:25:48,900

anti-vaxx views Ali had spread multiple

573

00:25:53,210 --> 00:25:50,940

conspiracy theories on her social media

574

00:25:55,630 --> 00:25:53,220

channels in recent years about covid-19

575

00:25:58,190 --> 00:25:55,640

and vaccines

576

00:25:59,930 --> 00:25:58,200

conspiracists claimed that she was

577

00:26:02,690 --> 00:25:59,940

possibly murdered because of her

578

00:26:05,210 --> 00:26:02,700

outspoken criticism of the vaccines or

579

00:26:06,350 --> 00:26:05,220

that she was forcibly given one and it

580

00:26:09,289 --> 00:26:06,360

killed her

581

00:26:11,570 --> 00:26:09,299

Ali was 71 and had apparently been

582

00:26:16,610 --> 00:26:11,580

suffering colon cancer for some time

583

00:26:23,029 --> 00:26:20,090

quote material detector end quote to

584

00:26:25,310 --> 00:26:23,039

eradicate pseudoscience

585

00:26:27,230 --> 00:26:25,320

the online Integrity Center is

586

00:26:29,630 --> 00:26:27,240

developing tools to help Publishers of

587

00:26:32,390 --> 00:26:29,640

scientific journals fight fake searches

588

00:26:34,730 --> 00:26:32,400

and image manipulation it is the result

589

00:26:37,430 --> 00:26:34,740

of a year-long collaboration between 24

590

00:26:40,730 --> 00:26:37,440

Publishers and providers of academic

591

00:26:43,669 --> 00:26:40,740

analysis together they are trying to end

592

00:26:46,549 --> 00:26:43,679

the growing scourge of manufactured

593

00:26:48,590 --> 00:26:46,559

scientific articles from quote paper

594

00:26:51,049 --> 00:26:48,600

mills end quote

595

00:26:53,269 --> 00:26:51,059

over the last years the magazines have

596

00:26:55,310 --> 00:26:53,279

withdrawn hundreds of Articles fearing

597

00:26:58,250 --> 00:26:55,320

the work contain fabricated data and

598

00:27:00,110 --> 00:26:58,260

images as a result Publishers have tried

599

00:27:02,390 --> 00:27:00,120

to bolster their defenses to prevent

600

00:27:05,200 --> 00:27:02,400

such articles from passing through their

601
00:27:07,730 --> 00:27:05,210
submission systems

602
00:27:11,690 --> 00:27:07,740
[Music]

603
00:27:15,250 --> 00:27:11,700
Netflix's ancient apocalypse uses quote

604
00:27:18,590 --> 00:27:15,260
racist ideologies end quote

605
00:27:21,590 --> 00:27:18,600
Netflix's new series ancient apocalypse

606
00:27:23,390 --> 00:27:21,600
which suggests that it is unlikely local

607
00:27:25,850 --> 00:27:23,400
populations could have built certain

608
00:27:28,789 --> 00:27:25,860
ancient structures has been criticized

609
00:27:31,370 --> 00:27:28,799
by experts on Pacific history who say it

610
00:27:34,190 --> 00:27:31,380
is founded on racist and white

611
00:27:37,130 --> 00:27:34,200
supremacist ideologies and promotes

612
00:27:39,409 --> 00:27:37,140
pseudoscience the series thesis is

613
00:27:41,450 --> 00:27:39,419

bolstered by errors of fact including

614

00:27:44,090 --> 00:27:41,460

the predating of the building's date of

615

00:27:50,210 --> 00:27:47,870

the psychic and the social engineer

616

00:27:52,610 --> 00:27:50,220

this is an article on cold reading and

617

00:27:55,490 --> 00:27:52,620

how it is used similarly by psychics and

618

00:27:57,409 --> 00:27:55,500

social Engineers quote both use

619

00:27:59,450 --> 00:27:57,419

techniques such as using social cues

620

00:28:01,730 --> 00:27:59,460

making broad statements and using

621

00:28:04,490 --> 00:28:01,740

probability to create the illusion of

622

00:28:06,350 --> 00:28:04,500

credibility there are many overlapping

623

00:28:09,470 --> 00:28:06,360

skills used by psychics and social

624

00:28:11,750 --> 00:28:09,480

Engineers always remember knowledge and

625

00:28:16,210 --> 00:28:11,760

skill have the best results when used

626
00:28:23,810 --> 00:28:21,169
psychology class considers pseudoscience

627
00:28:26,149 --> 00:28:23,820
the chair of the State University of New

628
00:28:27,409 --> 00:28:26,159
York Cortland psychology department has

629
00:28:28,970 --> 00:28:27,419
joined with students who are looking

630
00:28:30,830 --> 00:28:28,980
into the characteristics of

631
00:28:33,950 --> 00:28:30,840
pseudoscience and have helped write

632
00:28:36,409 --> 00:28:33,960
columns for the skeptical Inquirer it is

633
00:28:39,169 --> 00:28:36,419
part of the psychology of pseudoscience

634
00:28:41,210 --> 00:28:39,179
a class Craig Barker the chair of the

635
00:28:43,430 --> 00:28:41,220
school taught during a previous semester

636
00:28:44,930 --> 00:28:43,440
in hopes to make a permanent part of the

637
00:28:46,970 --> 00:28:44,940
curriculum

638
00:28:49,430 --> 00:28:46,980

Foster noted that social psychology

639

00:28:51,769 --> 00:28:49,440

examines how situations influence human

640

00:28:54,470 --> 00:28:51,779

thought emotion and behavior

641

00:28:56,630 --> 00:28:54,480

likewise social influence can cause

642

00:28:59,269 --> 00:28:56,640

reasonable intelligent people to believe

643

00:29:01,130 --> 00:28:59,279

in pseudoscience which is why he feels

644

00:29:02,690 --> 00:29:01,140

it is important for students to improve

645

00:29:05,880 --> 00:29:02,700

their critical thinking and avoid

646

00:29:08,810 --> 00:29:05,890

falling for current or future falsehoods

647

00:29:12,529 --> 00:29:08,820

[Music]

648

00:29:14,810 --> 00:29:12,539

psychic predictions exposed

649

00:29:17,529 --> 00:29:14,820

The Great Australian psychic prediction

650

00:29:19,610 --> 00:29:17,539

project or gapp

651
00:29:22,370 --> 00:29:19,620
analyzed all psychic predictions

652
00:29:24,470 --> 00:29:22,380
broadcast in Australia over a decade to

653
00:29:27,889 --> 00:29:24,480
see if they were accurate see the

654
00:29:30,529 --> 00:29:27,899
December 2021 issue of the skeptic Rob

655
00:29:33,230 --> 00:29:30,539
Palmer from the center for inquiry USA

656
00:29:35,630 --> 00:29:33,240
shares the results of the project helm

657
00:29:39,110 --> 00:29:35,640
by noted Australian skeptic Richard

658
00:29:41,690 --> 00:29:39,120
Saunders to reveal the true accuracy of

659
00:29:44,570 --> 00:29:41,700
psychic predictions the first 16 minutes

660
00:29:48,440 --> 00:29:44,580
of the video cover the project

661
00:29:51,350 --> 00:29:49,669
[Music]

662
00:29:54,230 --> 00:29:51,360
the digital version of the December

663
00:29:56,149 --> 00:29:54,240

issue of the skeptic magazine is out and

664

00:29:58,010 --> 00:29:56,159

the hard copy will be with readers soon

665

00:29:59,930 --> 00:29:58,020

if they haven't already received it

666

00:30:02,210 --> 00:29:59,940

great articles on medical

667

00:30:05,090 --> 00:30:02,220

misunderstandings the great conspiracy

668

00:30:07,130 --> 00:30:05,100

theory big waves exorcism case studies

669

00:30:10,970 --> 00:30:07,140

and the continuing Hall of Shame of

670

00:30:12,950 --> 00:30:10,980

spurious claims and dubious responses if

671

00:30:15,289 --> 00:30:12,960

you haven't subscribed yet now is the

672

00:30:18,470 --> 00:30:15,299

time to do so you can sign up for a hard

673

00:30:20,210 --> 00:30:18,480

copy or digital Edition or both the

674

00:30:22,669 --> 00:30:20,220

digital is offered free to those who

675

00:30:24,529 --> 00:30:22,679

take up the hard copy version contact

676

00:30:26,630 --> 00:30:24,539

the editor if you're not sure of your

677

00:30:29,090 --> 00:30:26,640

existing subscription needs renewing

678

00:30:31,430 --> 00:30:29,100

learn more about our magazine And

679

00:30:33,470 --> 00:30:31,440

subscribe now

680

00:30:35,690 --> 00:30:33,480

Skeptics in action

681

00:30:37,130 --> 00:30:35,700

if you have any ideas for stories or

682

00:30:39,289 --> 00:30:37,140

want to contribute to Skeptics

683

00:30:41,269 --> 00:30:39,299

Communications such as the magazine or

684

00:30:43,190 --> 00:30:41,279

Facebook page or just have something you

685

00:30:45,049 --> 00:30:43,200

want to get off your chest then you're

686

00:30:47,810 --> 00:30:45,059

welcome to get in touch

687

00:30:48,909 --> 00:30:47,820

news leads should be sent to news tips

688

00:30:51,529 --> 00:30:48,919

at

689

00:30:54,490 --> 00:30:51,539

skeptics.com.au submissions for the

690

00:30:56,990 --> 00:30:54,500

magazine Etc should go to editor

691

00:30:59,149 --> 00:30:57,000

skeptics.com.edu comments and

692

00:31:01,820 --> 00:30:59,159

suggestions should also go to editor

693

00:31:04,190 --> 00:31:01,830

skeptics.com.au

694

00:31:07,370 --> 00:31:04,200

[Music]

695

00:31:10,730 --> 00:31:07,380

items of Interest

696

00:31:12,049 --> 00:31:10,740

stunning UFO encounters caught on

697

00:31:15,710 --> 00:31:12,059

cameras

698

00:31:17,870 --> 00:31:15,720

not really that stunning the production

699

00:31:20,210 --> 00:31:17,880

is a lot more sophisticated than the UFO

700

00:31:23,289 --> 00:31:20,220

clips though it uses that annoying

701
00:31:26,990 --> 00:31:23,299
technique of shaky handheld camera work

702
00:31:29,630 --> 00:31:27,000
designed to add realism

703
00:31:32,090 --> 00:31:29,640
hasn't anyone heard of a tripod

704
00:31:34,430 --> 00:31:32,100
maybe trying to match the quality of the

705
00:31:36,860 --> 00:31:34,440
studio work with the quality of the UFO

706
00:31:39,350 --> 00:31:36,870
films might be a good idea

707
00:31:42,830 --> 00:31:39,360
[Music]

708
00:31:44,149 --> 00:31:42,840
psychic animals and some humans on the

709
00:31:46,549 --> 00:31:44,159
World Cup

710
00:31:47,990 --> 00:31:46,559
this is continuing our look at some

711
00:31:50,930 --> 00:31:48,000
highly undistinguished psychic

712
00:31:53,630 --> 00:31:50,940
predictions from animals and people on

713
00:31:56,149 --> 00:31:53,640

the football World Cup

714

00:31:57,830 --> 00:31:56,159

and keep in mind the results of the

715

00:32:00,110 --> 00:31:57,840

Great Australian psychic prediction

716

00:32:02,440 --> 00:32:00,120

project that we mentioned before

717

00:32:05,330 --> 00:32:02,450

so it's not very promising

718

00:32:08,450 --> 00:32:05,340

[Music]

719

00:32:10,789 --> 00:32:08,460

well Alfie the alpaca is having a bad

720

00:32:14,330 --> 00:32:10,799

run having predicted that England would

721

00:32:16,669 --> 00:32:14,340

lose to Iran when England won 6-2 he

722

00:32:20,690 --> 00:32:16,679

then did a complete about face and said

723

00:32:22,430 --> 00:32:20,700

England would beat France and they lost

724

00:32:25,909 --> 00:32:22,440

a psychic seal

725

00:32:28,970 --> 00:32:25,919

Nana also predicted the England win

726

00:32:32,990 --> 00:32:28,980

and lost

727

00:32:34,789 --> 00:32:33,000

ciao boy a lion at a zoo in Thailand did

728

00:32:37,130 --> 00:32:34,799

predict the French win but also

729

00:32:39,409 --> 00:32:37,140

predicted that France would be the only

730

00:32:42,769 --> 00:32:39,419

European country in the final four

731

00:32:45,289 --> 00:32:42,779

wrong Croatia also qualified and that

732

00:32:47,630 --> 00:32:45,299

the four would include Brazil

733

00:32:49,430 --> 00:32:47,640

wrong again they lost in the

734

00:32:51,590 --> 00:32:49,440

quarterfinals

735

00:32:53,330 --> 00:32:51,600

if you really want to pursue the psychic

736

00:32:56,570 --> 00:32:53,340

animal Sega there's an interesting

737

00:33:00,409 --> 00:32:56,580

article on their past performances on

738

00:33:03,110 --> 00:33:00,419

The Human Side Canadian Anthony Carr the

739

00:33:05,930 --> 00:33:03,120

quote modern day Nostradamus end quote

740

00:33:08,029 --> 00:33:05,940

who was a side note I've never heard of

741

00:33:10,190 --> 00:33:08,039

who claims to have predicted a slew of

742

00:33:12,649 --> 00:33:10,200

world events from September 11th to the

743

00:33:15,110 --> 00:33:12,659

election of a German Pope predicted an

744

00:33:17,930 --> 00:33:15,120

England wind at the World Cup and

745

00:33:21,950 --> 00:33:17,940

therefore is as accurate as an alpaca

746

00:33:28,730 --> 00:33:26,029

by the way his prediction of 9 11 is not

747

00:33:33,049 --> 00:33:28,740

as precise as he might claim he foresaw

748

00:33:35,750 --> 00:33:33,059

a quote cataclysmic Cosmic event end

749

00:33:38,090 --> 00:33:35,760

quote and warned people should quote

750

00:33:40,850 --> 00:33:38,100

watch for a sign in the heavens end

751
00:33:44,269 --> 00:33:40,860
quote because what was coming would

752
00:33:47,450 --> 00:33:44,279
quote shock the whole world end quote

753
00:33:49,370 --> 00:33:47,460
and quote put the fear of God in us end

754
00:33:52,970 --> 00:33:49,380
quote

755
00:33:55,310 --> 00:33:52,980
for the record Mystic veg the asparagus

756
00:33:58,130 --> 00:33:55,320
thrower correctly predicted that England

757
00:34:00,830 --> 00:33:58,140
would be out in the quarterfinals

758
00:34:03,049 --> 00:34:00,840
one theory about the poor performance of

759
00:34:06,009 --> 00:34:03,059
England in the cup is because of the

760
00:34:09,409 --> 00:34:06,019
choice of TV channels showing the games

761
00:34:11,149 --> 00:34:09,419
when an England World Cup match is shown

762
00:34:14,930 --> 00:34:11,159
on the BBC

763
00:34:18,250 --> 00:34:14,940

England has a 75 winning record however

764

00:34:21,349 --> 00:34:18,260
on ITV that falls to just

765

00:34:25,250 --> 00:34:21,359
13.33 percent

766

00:34:27,609 --> 00:34:25,260
and finally exhibiting a distinctly poor

767

00:34:31,329 --> 00:34:27,619
appreciation of maths and statistics

768

00:34:34,070 --> 00:34:31,339
qatar's giant pandas thorea and suhail

769

00:34:37,190 --> 00:34:34,080
quote gained Fame during the World Cup

770

00:34:41,629 --> 00:34:37,200
2022 by correctly predicting the outcome

771

00:34:45,169 --> 00:34:41,639
of 11 out of 24 matches end quote

772

00:34:46,609 --> 00:34:45,179
in a two-horse race 11 out of 24 is less

773

00:34:50,810 --> 00:34:46,619
than 50 percent

774

00:34:53,990 --> 00:34:50,820
a banana could do better than that

775

00:34:56,450 --> 00:34:54,000
and finally finally a self-proclaimed

776
00:34:58,130 --> 00:34:56,460
time traveler who shared alleged video

777
00:35:00,310 --> 00:34:58,140
footage from the football tournament

778
00:35:05,030 --> 00:35:00,320
three weeks in the future

779
00:35:06,950 --> 00:35:05,040
divined a massive win for Brazil he must

780
00:35:10,450 --> 00:35:06,960
have been looking at the wrong future TV

781
00:35:13,970 --> 00:35:10,460
channel maybe it was ITV

782
00:35:16,990 --> 00:35:13,980
[Music]

783
00:35:19,550 --> 00:35:17,000
silliest story of the week

784
00:35:23,690 --> 00:35:19,560
I didn't know it could get more silly

785
00:35:29,630 --> 00:35:26,390
psychic medium supported by Spirits

786
00:35:31,490 --> 00:35:29,640
against fear of haircuts

787
00:35:34,670 --> 00:35:31,500
there is such a thing as a fear of

788
00:35:37,490 --> 00:35:34,680

haircuts known as tantrophobia but

789

00:35:40,010 --> 00:35:37,500

psychic Tracy May says it is quote

790

00:35:42,710 --> 00:35:40,020

nothing to be laughed about end quote

791

00:35:45,470 --> 00:35:42,720

and wishes people would stop treating it

792

00:35:47,750 --> 00:35:45,480

as a joke she thinks that seeing clips

793

00:35:50,030 --> 00:35:47,760

of the film Edward Scissorhands may be

794

00:35:52,130 --> 00:35:50,040

one of the primary causes

795

00:35:54,530 --> 00:35:52,140

she hasn't yet been able to find an

796

00:35:56,810 --> 00:35:54,540

effective treatment but she said Spirits

797

00:35:59,990 --> 00:35:56,820

have supported her reassuring her that

798

00:36:02,270 --> 00:36:00,000

quote it's going to be okay end quote

799

00:36:04,910 --> 00:36:02,280

she has tried putting crystals in her

800

00:36:07,910 --> 00:36:04,920

bra using essential oils and doing

801
00:36:10,310 --> 00:36:07,920
breathing exercises to calm herself down

802
00:36:14,030 --> 00:36:10,320
but nothing has completely treated her

803
00:36:19,510 --> 00:36:14,040
phobia maybe it's not her tantrophobia

804
00:36:24,710 --> 00:36:22,370
well that's all for now and this is

805
00:36:27,230 --> 00:36:24,720
Adrian Hill signing off with a public

806
00:36:29,030 --> 00:36:27,240
service announcement this time if you

807
00:36:32,089 --> 00:36:29,040
are out photographing beautiful mountain

808
00:36:35,089 --> 00:36:32,099
surroundings on a very cold morning and

809
00:36:37,970 --> 00:36:35,099
assume you're on land at a lake because

810
00:36:41,510 --> 00:36:37,980
of how the snow ended in a ridge along

811
00:36:44,569 --> 00:36:41,520
the ice on the lake do not trust it

812
00:36:47,150 --> 00:36:44,579
you could be on the lake ice and have

813
00:36:49,910 --> 00:36:47,160

one foot fall through and yes this

814

00:36:51,890 --> 00:36:49,920

happened to me this past weekend frankly

815

00:36:54,109 --> 00:36:51,900

it was a frightening experience that I

816

00:36:55,790 --> 00:36:54,119

don't recommend duplicating I was with

817

00:36:58,190 --> 00:36:55,800

others and of course the water level was

818

00:37:00,530 --> 00:36:58,200

below my knee but our wonderful day

819

00:37:03,950 --> 00:37:00,540

ended abruptly in order to dump out

820

00:37:05,810 --> 00:37:03,960

Mucky stinky cold water from my boot and

821

00:37:08,510 --> 00:37:05,820

to warm me up

822

00:37:16,609 --> 00:37:08,520

stay safe everyone

823

00:37:18,829 --> 00:37:16,619

[Music]

824

00:37:19,790 --> 00:37:18,839

Radford co-host the scoring strange

825

00:37:22,670 --> 00:37:19,800

podcast

826

00:37:24,710 --> 00:37:22,680

in these trying times as we help each

827

00:37:26,390 --> 00:37:24,720

other out to hold on to hope we want you

828

00:37:28,849 --> 00:37:26,400

to know that we're here for you hey hey

829

00:37:30,829 --> 00:37:28,859

what are you going on about who's

830

00:37:34,510 --> 00:37:30,839

interrupting my heart promotional copy

831

00:37:38,089 --> 00:37:34,520

it's me Celestia Ward your co-host

832

00:37:40,490 --> 00:37:38,099

really in these trying times that's the

833

00:37:42,670 --> 00:37:40,500

best you can do well I'm just doing what

834

00:37:45,349 --> 00:37:42,680

everyone else is doing I thought

835

00:37:47,210 --> 00:37:45,359

that's not what we do

836

00:37:51,109 --> 00:37:47,220

oh for crying out loud who else is here

837

00:37:54,050 --> 00:37:51,119

Pasquale Romero your other co-host hey

838

00:37:55,970 --> 00:37:54,060

we don't do what everybody else does Ben

839

00:37:58,550 --> 00:37:55,980

that's kind of our thing at squaring the

840

00:38:00,109 --> 00:37:58,560

strange yeah we try to approach things a

841

00:38:03,349 --> 00:38:00,119

little differently than your standard

842

00:38:05,630 --> 00:38:03,359

skeptical Tucky talk show we do our own

843

00:38:08,150 --> 00:38:05,640

thing bringing science critical thinking

844

00:38:10,310 --> 00:38:08,160

and skepticism to bear on issues of the

845

00:38:13,130 --> 00:38:10,320

day we've got a professional skeptical

846

00:38:16,069 --> 00:38:13,140

author Ben who has Decades of experience

847

00:38:18,710 --> 00:38:16,079

researching topics for a dozen books and

848

00:38:20,450 --> 00:38:18,720

thousands of Articles and a cartoonist

849

00:38:22,250 --> 00:38:20,460

skeptic Celestia who knows her stuff

850

00:38:24,530 --> 00:38:22,260

when it comes to facial weirdness and

851

00:38:26,810 --> 00:38:24,540

the psychology of perception and a

852

00:38:28,910 --> 00:38:26,820

badass heavy metal rock star and Tech

853

00:38:30,890 --> 00:38:28,920

engineer Pasquale who brings knowledge

854

00:38:33,470 --> 00:38:30,900

of all things Audio Plus a bunch of neck

855

00:38:35,690 --> 00:38:33,480

tattoos scoring the strange explores

856

00:38:38,450 --> 00:38:35,700

topics both mysterious and mundane

857

00:38:41,930 --> 00:38:38,460

through a critical lens monsters panics

858

00:38:47,270 --> 00:38:44,690

trying times promo idea but we have

859

00:38:49,290 --> 00:38:47,280

chupacabras and clown panics right yes

860

00:39:02,790 --> 00:38:49,300

yes then

861

00:39:05,990 --> 00:39:03,890

[Music]

862

00:39:09,370 --> 00:39:06,000

now it's time once again to dive into

863

00:39:11,270 --> 00:39:09,380

those pages at Trove at

864

00:39:12,770 --> 00:39:11,280

trove.nla.gov dot a u the online

865

00:39:14,450 --> 00:39:12,780

resource from the Australian government

866

00:39:16,130 --> 00:39:14,460

and the National Library of Australia

867

00:39:18,050 --> 00:39:16,140

thank you thank you can you hear me

868

00:39:19,370 --> 00:39:18,060

those good people over there at the

869

00:39:22,670 --> 00:39:19,380

National Library thank you for

870

00:39:25,790 --> 00:39:22,680

digitizing millions millions of Articles

871

00:39:28,190 --> 00:39:25,800

reports and so on from magazines and

872

00:39:30,589 --> 00:39:28,200

journals and newspapers but this week

873

00:39:32,870 --> 00:39:30,599

we're going to start we're going to

874

00:39:36,950 --> 00:39:32,880

start at the Skeptics dictionary because

875

00:39:40,190 --> 00:39:36,960

the subject this week is Crystal healing

876

00:39:42,230 --> 00:39:40,200

or crystal energy Crystal power and in

877

00:39:43,609 --> 00:39:42,240

the Skeptics dictionary we read Crystal

878

00:39:46,609 --> 00:39:43,619

power

879

00:39:49,310 --> 00:39:46,619

a crystal is a solid formed by the

880

00:39:51,890 --> 00:39:49,320

solidification of chemicals as a regular

881

00:39:54,710 --> 00:39:51,900

repeating internal arrangement of atoms

882

00:39:58,370 --> 00:39:54,720

and molecules and is bounded by external

883

00:40:00,470 --> 00:39:58,380

plane faces Crystal particles form a

884

00:40:03,950 --> 00:40:00,480

variety of geometrical shapes due to

885

00:40:07,730 --> 00:40:03,960

their internal compressions crystals

886

00:40:10,609 --> 00:40:07,740

have aesthetic properties that have long

887

00:40:13,130 --> 00:40:10,619

made them attractive in jewelry very

888

00:40:15,050 --> 00:40:13,140

true but they also have some properties

889

00:40:17,750 --> 00:40:15,060

that make them very important to the

890

00:40:19,730 --> 00:40:17,760

electronics and Optical Industries the

891

00:40:21,770 --> 00:40:19,740

day crystals are used in just about

892

00:40:24,710 --> 00:40:21,780

every type of modern technology

893

00:40:27,410 --> 00:40:24,720

for centuries crystals and other gems

894

00:40:30,109 --> 00:40:27,420

have been desired for their alleged

895

00:40:32,930 --> 00:40:30,119

magical healing and mystical paranormal

896

00:40:36,050 --> 00:40:32,940

Powers this belief continues today among

897

00:40:37,670 --> 00:40:36,060

occultists and New Age healers even

898

00:40:39,950 --> 00:40:37,680

though it's based on nothing more than

899

00:40:42,230 --> 00:40:39,960

testimonials the placebo effect

900

00:40:44,870 --> 00:40:42,240

selective thinking wishful thinking

901
00:40:48,650 --> 00:40:44,880
subjective validation sympathetic magic

902
00:40:50,390 --> 00:40:48,660
and communal reinforcement there is no

903
00:40:53,329 --> 00:40:50,400
scientific evidence that crystals are

904
00:40:55,849 --> 00:40:53,339
conduits of magical energies useful for

905
00:40:57,650 --> 00:40:55,859
healing and protection or foretelling

906
00:41:01,250 --> 00:40:57,660
the future

907
00:41:03,890 --> 00:41:01,260
we can dismiss the pre-scientific belief

908
00:41:06,890 --> 00:41:03,900
in magical powers of crystals and

909
00:41:09,370 --> 00:41:06,900
gemstones as due to a lack of scientific

910
00:41:12,109 --> 00:41:09,380
knowledge modern occultists however

911
00:41:14,329 --> 00:41:12,119
distort and falsify scientific knowledge

912
00:41:16,370 --> 00:41:14,339
in order to promote belief in their

913
00:41:18,430 --> 00:41:16,380

Crystal products according to the

914

00:41:21,530 --> 00:41:18,440

purveyors of this crystalline

915

00:41:26,510 --> 00:41:21,540

pseudoscience crystals Channel good

916

00:41:29,990 --> 00:41:26,520

energy and ward off bad energy they can

917

00:41:32,750 --> 00:41:30,000

carry vibrations that resonate with

918

00:41:34,130 --> 00:41:32,760

healing frequencies all of course is

919

00:41:36,710 --> 00:41:34,140

just word salad

920

00:41:39,770 --> 00:41:36,720

work with the chakras and help balance

921

00:41:42,349 --> 00:41:39,780

yin and yang crystals allegedly affect

922

00:41:45,290 --> 00:41:42,359

the emotions and can be used not only

923

00:41:48,589 --> 00:41:45,300

for physical healing but for emotional

924

00:41:51,230 --> 00:41:48,599

problems as well crystals can not only

925

00:41:53,990 --> 00:41:51,240

help with the emotional healing but with

926
00:41:56,810 --> 00:41:54,000
self-expression creativity meditation

927
00:42:00,109 --> 00:41:56,820
and the immune system none of these

928
00:42:04,069 --> 00:42:00,119
claims is backed up by any scientific

929
00:42:08,210 --> 00:42:04,079
evidence today Crystal wands are used to

930
00:42:10,790 --> 00:42:08,220
heal auras in Aura therapy but one of

931
00:42:13,310 --> 00:42:10,800
the more egregious pseudoscientific

932
00:42:15,050 --> 00:42:13,320
claims regarding crystals is that if

933
00:42:16,810 --> 00:42:15,060
arranged properly they can provide

934
00:42:19,490 --> 00:42:16,820
protection against harmful

935
00:42:21,890 --> 00:42:19,500
electromagnetic forces such as those

936
00:42:24,829 --> 00:42:21,900
that are emitted by computer monitors

937
00:42:28,250 --> 00:42:24,839
cellular phones microwave ovens hair

938
00:42:31,430 --> 00:42:28,260

dryers power lines and other people

939

00:42:33,710 --> 00:42:31,440

The bioelectric Shield was invented by a

940

00:42:36,170 --> 00:42:33,720

chiropractor from Montana Charles Brown

941

00:42:40,609 --> 00:42:36,180

who claimed he heard voices in his head

942

00:42:42,829 --> 00:42:40,619

and had Visions in his bed as to how to

943

00:42:45,050 --> 00:42:42,839

arrange crystals in the shape of a

944

00:42:48,589 --> 00:42:45,060

flying saucer in order to provide

945

00:42:51,950 --> 00:42:48,599

protection his bioelectric Shields are

946

00:42:55,010 --> 00:42:51,960

sold for anywhere from 139 dollars to

947

00:42:57,710 --> 00:42:55,020

over a thousand dollars Claire Blair the

948

00:42:59,930 --> 00:42:57,720

wife of the former prime minister of the

949

00:43:03,710 --> 00:42:59,940

UK wears one of these magical pendants

950

00:43:06,170 --> 00:43:03,720

they are said to be medically proven and

951
00:43:08,870 --> 00:43:06,180
based on Nobel prize-winning physics

952
00:43:11,569 --> 00:43:08,880
even if the claims about the protective

953
00:43:14,690 --> 00:43:11,579
power of these pendants were true it

954
00:43:17,210 --> 00:43:14,700
would be necessary to envelop your

955
00:43:20,210 --> 00:43:17,220
entire body in one to achieve the

956
00:43:22,730 --> 00:43:20,220
desired result by hanging a little piece

957
00:43:24,470 --> 00:43:22,740
of jewelry around the neck you might be

958
00:43:27,530 --> 00:43:24,480
able to protect a small part of the

959
00:43:29,450 --> 00:43:27,540
throat however so that's what the

960
00:43:31,309 --> 00:43:29,460
Skeptics addiction dictionary has to say

961
00:43:34,309 --> 00:43:31,319
about Crystal power Crystal healing

962
00:43:35,390 --> 00:43:34,319
crystal energy let's see what the papers

963
00:43:37,730 --> 00:43:35,400

say

964

00:43:40,130 --> 00:43:37,740

[Music]

965

00:43:42,290 --> 00:43:40,140

and our first result comes from the port

966

00:43:44,470 --> 00:43:42,300

Lincoln times in South Australia dated

967

00:43:48,589 --> 00:43:44,480

the 25th of February

968

00:43:52,690 --> 00:43:48,599

1992 so over 30 years ago

969

00:43:56,690 --> 00:43:52,700

and the article is called air house it's

970

00:44:00,050 --> 00:43:56,700

e-y-r-e quest for health

971

00:44:03,050 --> 00:44:00,060

natural healing is an effective way to

972

00:44:05,569 --> 00:44:03,060

reduce stress pain and Achieve total

973

00:44:07,910 --> 00:44:05,579

relaxation for people who are looking

974

00:44:10,790 --> 00:44:07,920

for Alternative Health measures a house

975

00:44:14,089 --> 00:44:10,800

can assist General Practitioners in the

976
00:44:16,790 --> 00:44:14,099
Quest for their patients Total Health a

977
00:44:18,890 --> 00:44:16,800
health center of Natural Health offers a

978
00:44:20,150 --> 00:44:18,900
comprehensive list of natural healing

979
00:44:23,569 --> 00:44:20,160
services

980
00:44:26,450 --> 00:44:23,579
floatation therapy a relaxation method

981
00:44:30,530 --> 00:44:26,460
for the mind and body patients spend

982
00:44:33,410 --> 00:44:30,540
about one hour in a tank floating on

983
00:44:36,349 --> 00:44:33,420
buoyant liquid this environment causes

984
00:44:38,390 --> 00:44:36,359
the body and mind to go into natural and

985
00:44:41,210 --> 00:44:38,400
very deep relaxation

986
00:44:43,730 --> 00:44:41,220
flotation is completely safe even in

987
00:44:46,849 --> 00:44:43,740
pregnancy now just stop here to say I

988
00:44:50,270 --> 00:44:46,859

did this many years ago many years ago I

989

00:44:52,250 --> 00:44:50,280

think sometime during the 1980s I had a

990

00:44:54,890 --> 00:44:52,260

couple of sessions in a float tank and

991

00:44:56,630 --> 00:44:54,900

without doubt it was very restful

992

00:44:58,849 --> 00:44:56,640

calming

993

00:45:01,490 --> 00:44:58,859

um and quite a nice experience but I

994

00:45:03,309 --> 00:45:01,500

certainly don't wouldn't attribute any

995

00:45:05,690 --> 00:45:03,319

Miracle Health

996

00:45:09,290 --> 00:45:05,700

outcomes to it it was just a very

997

00:45:11,450 --> 00:45:09,300

pleasant experience yoga a gentle

998

00:45:13,849 --> 00:45:11,460

exercise for all ages and is

999

00:45:16,970 --> 00:45:13,859

particularly helpful in arthritis and

1000

00:45:19,870 --> 00:45:16,980

limited Mobility patients yoga will

1001
00:45:22,010 --> 00:45:19,880
Revitalize Your Body by introducing deep

1002
00:45:24,650 --> 00:45:22,020
rhythmic breathing

1003
00:45:27,470 --> 00:45:24,660
it will increase blood circulation

1004
00:45:31,329 --> 00:45:27,480
taking more oxygen to the body tissues

1005
00:45:35,089 --> 00:45:31,339
and tone the muscles and nerves

1006
00:45:37,210 --> 00:45:35,099
yoga will Aid the digestion and

1007
00:45:40,490 --> 00:45:37,220
elimination of food

1008
00:45:43,030 --> 00:45:40,500
as a consequence a person feels

1009
00:45:47,030 --> 00:45:43,040
healthier and happier

1010
00:45:48,890 --> 00:45:47,040
naturopath patients are offered an

1011
00:45:52,069 --> 00:45:48,900
all-round healing treatment including

1012
00:45:55,910 --> 00:45:52,079
massage and assessment of bodily

1013
00:45:58,790 --> 00:45:55,920

functions via the invaluable tool of

1014

00:46:02,270 --> 00:45:58,800

Iris diagnosis

1015

00:46:05,750 --> 00:46:02,280

iridology dietary recommendations can be

1016

00:46:08,329 --> 00:46:05,760

made to suit specific needs and herbal

1017

00:46:10,849 --> 00:46:08,339

medicine homeopathic remedies Wildflower

1018

00:46:13,910 --> 00:46:10,859

Essence and vitamin supplements can be

1019

00:46:16,790 --> 00:46:13,920

prescribed in many cases healing can be

1020

00:46:19,550 --> 00:46:16,800

accelerated with the application of

1021

00:46:22,490 --> 00:46:19,560

suitable poultices which are easily

1022

00:46:25,190 --> 00:46:22,500

prepared and applied at home

1023

00:46:27,770 --> 00:46:25,200

Beauty therapists specializing in all

1024

00:46:30,349 --> 00:46:27,780

aspects of beauty therapy with special

1025

00:46:33,950 --> 00:46:30,359

consideration to Skin Care especially

1026
00:46:37,430 --> 00:46:33,960
through facials using Marine products

1027
00:46:41,990 --> 00:46:37,440
okay great for acne sufferers cellulite

1028
00:46:44,890 --> 00:46:42,000
problems or any skin condition facials

1029
00:46:49,190 --> 00:46:44,900
are offered for a luxurious Beauty boost

1030
00:46:51,410 --> 00:46:49,200
and are coupled with skin care analysis

1031
00:46:53,990 --> 00:46:51,420
including diet advice

1032
00:46:55,690 --> 00:46:54,000
this is an interesting list I hope we

1033
00:46:58,309 --> 00:46:55,700
get to the crystals

1034
00:47:01,790 --> 00:46:58,319
facial and body waxing pedicures

1035
00:47:03,950 --> 00:47:01,800
manicures eyelash tinting and cellulite

1036
00:47:05,450 --> 00:47:03,960
massage are available traditional

1037
00:47:08,150 --> 00:47:05,460
Chinese massage

1038
00:47:10,550 --> 00:47:08,160

it is delivered with the sole intention

1039

00:47:13,250 --> 00:47:10,560

of motivating liberating and utilizing

1040

00:47:15,410 --> 00:47:13,260

resources within the body in such a way

1041

00:47:17,569 --> 00:47:15,420

that does not abnormally

1042

00:47:19,490 --> 00:47:17,579

artificially accelerate or otherwise

1043

00:47:21,829 --> 00:47:19,500

impede the natural healing processes

1044

00:47:23,809 --> 00:47:21,839

this is reading just like an advertising

1045

00:47:25,910 --> 00:47:23,819

blurb isn't it

1046

00:47:28,430 --> 00:47:25,920

it really is

1047

00:47:30,470 --> 00:47:28,440

what does it say at the top oh well it

1048

00:47:32,270 --> 00:47:30,480

does say advertising features so there

1049

00:47:34,990 --> 00:47:32,280

we go I might skip all the other bits

1050

00:47:38,589 --> 00:47:35,000

that talk about Reiki

1051
00:47:40,930 --> 00:47:38,599
and what's this natural

1052
00:47:43,190 --> 00:47:40,940
nutritional analysis

1053
00:47:46,490 --> 00:47:43,200
ah here we go

1054
00:47:48,950 --> 00:47:46,500
Crystal healing a fast yet gentle

1055
00:47:52,790 --> 00:47:48,960
balancing of the body's energy Fields

1056
00:47:55,790 --> 00:47:52,800
both physical and subtle there are no

1057
00:47:58,670 --> 00:47:55,800
side effects while the benefit is an

1058
00:48:00,950 --> 00:47:58,680
acceleration of healing in all areas of

1059
00:48:04,130 --> 00:48:00,960
Medicine

1060
00:48:08,870 --> 00:48:04,140
and it goes on health education

1061
00:48:12,550 --> 00:48:08,880
Tai Chi etc etc now this dates from

1062
00:48:15,190 --> 00:48:12,560
this dates from 1992

1063
00:48:17,990 --> 00:48:15,200

and I

1064

00:48:20,270 --> 00:48:18,000

would probably have to say that even

1065

00:48:22,730 --> 00:48:20,280

today you can probably find such

1066

00:48:23,870 --> 00:48:22,740

outrageous claims being made in

1067

00:48:26,450 --> 00:48:23,880

newspapers

1068

00:48:27,309 --> 00:48:26,460

under the guise of advertising or

1069

00:48:29,809 --> 00:48:27,319

whatever

1070

00:48:32,990 --> 00:48:29,819

outrageous and ridiculous claims that

1071

00:48:36,170 --> 00:48:33,000

we've just heard including of course

1072

00:48:38,690 --> 00:48:36,180

Crystal healing and next we look at the

1073

00:48:43,089 --> 00:48:38,700

pages of thranka from the University of

1074

00:48:48,770 --> 00:48:43,099

New South Wales dated the 11th of April

1075

00:48:52,190 --> 00:48:48,780

1989 and a feature called The New Age

1076
00:48:53,750 --> 00:48:52,200
which goes on to talk about the various

1077
00:48:55,730 --> 00:48:53,760
alternative methods of healing

1078
00:48:58,190 --> 00:48:55,740
acupuncture Homeopathy medical

1079
00:49:01,670 --> 00:48:58,200
hypnotherapy hydrotherapy herbalist

1080
00:49:04,130 --> 00:49:01,680
Chiropractic osteopathy Zone therapy

1081
00:49:07,849 --> 00:49:04,140
Zone therapy

1082
00:49:09,309 --> 00:49:07,859
I want Zone okay sure not the skeptic

1083
00:49:14,210 --> 00:49:09,319
Zone therapy

1084
00:49:17,089 --> 00:49:14,220
uh naturopathy iridology molecular

1085
00:49:19,609 --> 00:49:17,099
medicine biofeedback biofeedback that's

1086
00:49:22,609 --> 00:49:19,619
an old one negative ion therapy colon

1087
00:49:25,089 --> 00:49:22,619
irrigation talks about those but here's

1088
00:49:28,490 --> 00:49:25,099

the part where it discusses crystals

1089

00:49:31,430 --> 00:49:28,500

crystals using crystals for healing is

1090

00:49:34,190 --> 00:49:31,440

the most controversial aspect of new

1091

00:49:37,970 --> 00:49:34,200

ageism Believers claim scientific

1092

00:49:40,970 --> 00:49:37,980

support for Crystal healing in the fact

1093

00:49:43,190 --> 00:49:40,980

that industry has long used quartz

1094

00:49:46,250 --> 00:49:43,200

crystals as a means of focusing and

1095

00:49:49,370 --> 00:49:46,260

transforming energy a tiny slice of

1096

00:49:52,910 --> 00:49:49,380

quartz in a micro circuit increases

1097

00:49:56,809 --> 00:49:52,920

electrical signal when cut into precise

1098

00:49:59,990 --> 00:49:56,819

shapes quartz vibrates at precise rates

1099

00:50:02,510 --> 00:50:00,000

and transforms electricity into waves

1100

00:50:04,490 --> 00:50:02,520

which can be broadcast as in the radio

1101

00:50:06,589 --> 00:50:04,500

and television signals

1102

00:50:08,890 --> 00:50:06,599

quartz changes solar energy into

1103

00:50:10,910 --> 00:50:08,900

electricity in devices called

1104

00:50:15,650 --> 00:50:10,920

photovoltaic cells

1105

00:50:16,609 --> 00:50:15,660

it is a large leap from here cries the

1106

00:50:19,309 --> 00:50:16,619

cynic

1107

00:50:20,329 --> 00:50:19,319

to certification of sublime healing

1108

00:50:22,670 --> 00:50:20,339

power

1109

00:50:26,210 --> 00:50:22,680

for the new ages however it's simply a

1110

00:50:29,510 --> 00:50:26,220

logical progression the physical body is

1111

00:50:32,089 --> 00:50:29,520

the end result of energy the total human

1112

00:50:34,250 --> 00:50:32,099

is a series of energy systems

1113

00:50:36,410 --> 00:50:34,260

interconnecting the Mind emotions and

1114

00:50:39,290 --> 00:50:36,420

the body crystals because they can

1115

00:50:41,930 --> 00:50:39,300

amplify energy interact with these

1116

00:50:45,109 --> 00:50:41,940

Energy Systems and in conjunction with

1117

00:50:48,010 --> 00:50:45,119

the Mind create functional changes which

1118

00:50:51,049 --> 00:50:48,020

will then manifest in the physical body

1119

00:50:54,470 --> 00:50:51,059

simply hold the crystal in your left

1120

00:50:56,450 --> 00:50:54,480

hand feel it pulsing or maybe you just

1121

00:51:00,109 --> 00:50:56,460

feel your own pulse when you do that

1122

00:51:02,690 --> 00:51:00,119

with your life force and hey Presto

1123

00:51:06,349 --> 00:51:02,700

you're cured purple quartz will clear

1124

00:51:09,710 --> 00:51:06,359

headaches rose quartz will balance the

1125

00:51:13,210 --> 00:51:09,720

love emotions and clear quartz will give

1126
00:51:17,390 --> 00:51:13,220
you that all-important body energization

1127
00:51:19,370 --> 00:51:17,400
James proprietor of essential energies a

1128
00:51:20,829 --> 00:51:19,380
retail outlet on Glee Point Road

1129
00:51:23,930 --> 00:51:20,839
offering

1130
00:51:26,990 --> 00:51:23,940
practitioners Services course and

1131
00:51:29,390 --> 00:51:27,000
workshops for the new Ager attests to

1132
00:51:32,450 --> 00:51:29,400
the power of crystals recently when

1133
00:51:35,329 --> 00:51:32,460
searching for a Sydney Abode he

1134
00:51:38,270 --> 00:51:35,339
dedicated a crystal to ensure that his

1135
00:51:41,210 --> 00:51:38,280
particular demands were met two bedrooms

1136
00:51:43,970 --> 00:51:41,220
with a harbor view all at a certain

1137
00:51:45,910 --> 00:51:43,980
price the energy of the crystal he

1138
00:51:49,430 --> 00:51:45,920

explained is

1139

00:51:50,809 --> 00:51:49,440

directionalized into the Circuit of the

1140

00:51:53,750 --> 00:51:50,819

brain

1141

00:51:57,230 --> 00:51:53,760

while the footwork was all his his

1142

00:52:00,109 --> 00:51:57,240

success in attaining the lease ahead of

1143

00:52:03,170 --> 00:52:00,119

six other candidates was all the

1144

00:52:04,849 --> 00:52:03,180

crystals workings the article does go on

1145

00:52:07,910 --> 00:52:04,859

a bit more about other things but the

1146

00:52:11,210 --> 00:52:07,920

conclusion is new ageism

1147

00:52:14,569 --> 00:52:11,220

is not a cohesive all-embracing

1148

00:52:16,910 --> 00:52:14,579

philosophy some take up only those parts

1149

00:52:19,849 --> 00:52:16,920

of the lifestyle and philosophies that

1150

00:52:23,030 --> 00:52:19,859

they find useful many may eat whole

1151
00:52:25,130 --> 00:52:23,040
grain and do yoga but still maintain an

1152
00:52:27,829 --> 00:52:25,140
interest in the world outside their

1153
00:52:29,349 --> 00:52:27,839
Serene flipper communing Crystal

1154
00:52:32,450 --> 00:52:29,359
pulsating

1155
00:52:34,430 --> 00:52:32,460
self-obsessed head spaces

1156
00:52:38,750 --> 00:52:34,440
it's an interesting article and the

1157
00:52:41,569 --> 00:52:38,760
byline is Tamara I don't know who who

1158
00:52:41,579 --> 00:52:45,670
foreign

1159
00:52:50,390 --> 00:52:47,870
of the Millions

1160
00:52:51,970 --> 00:52:50,400
millions of Articles at your fingertips

1161
00:52:54,170 --> 00:52:51,980
if you go to

1162
00:52:57,890 --> 00:52:54,180
trovertrove.nla.gov dot are you type in

1163
00:53:00,240 --> 00:52:57,900

your search and you never know what you

1164

00:53:18,020 --> 00:53:00,250

might find

1165

00:53:21,650 --> 00:53:19,790

[Applause]

1166

00:53:24,650 --> 00:53:21,660

thank you for listening to the skeptic

1167

00:53:26,390 --> 00:53:24,660

Zone podcast next week it's part two of

1168

00:53:29,410 --> 00:53:26,400

the interview with Dr Eugenie Scott

1169

00:53:32,569 --> 00:53:29,420

where we look at the ancient

1170

00:53:34,790 --> 00:53:32,579

apocalypse TV program

1171

00:53:36,710 --> 00:53:34,800

my ongoing thanks to those people who

1172

00:53:40,670 --> 00:53:36,720

support the skeptic Zone at patreon or

1173

00:53:42,530 --> 00:53:40,680

PayPal at skepticzone.tv it means the

1174

00:53:46,790 --> 00:53:42,540

show can keep going and every now and

1175

00:53:49,250 --> 00:53:46,800

then I can buy some nice new microphones

1176

00:53:51,530 --> 00:53:49,260

but for this week this is Richard

1177

00:53:57,069 --> 00:53:51,540

Saunders signing off from the Bay Area

1178

00:54:03,970 --> 00:53:59,390

you've been listening to the skeptic

1179

00:54:06,250 --> 00:54:03,980

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1180

00:54:09,349 --> 00:54:06,260

www.skepticzone.tv for show notes

1181

00:54:12,950 --> 00:54:09,359

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1182

00:54:14,870 --> 00:54:12,960

of episodes going back to 2008.

1183

00:54:18,470 --> 00:54:14,880

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1184

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1185

00:54:22,190 --> 00:54:20,819

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1186

00:54:24,410 --> 00:54:22,200

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00:54:31,069 --> 00:54:27,720

via patreon or PayPal the skeptic Zone

1189

00:54:32,750 --> 00:54:31,079

podcast is an independent production the

1190

00:54:34,849 --> 00:54:32,760

views and opinions expressed on the

1191

00:54:37,250 --> 00:54:34,859

skeptic zone are not necessarily those