

**SKEPTIC
ZONE**



**THINKING CAPS
MUST BE WORN
IN THIS AREA**

The
Podcast
from
Australia
for
Science
and
Reason

www.skepticzone.tv

1
00:00:06,650 --> 00:00:04,330
it

2
00:00:10,920 --> 00:00:06,660
me

3
00:00:10,930 --> 00:00:15,290
Oh

4
00:00:15,300 --> 00:00:19,750
you

5
00:00:26,350 --> 00:00:22,630
hello and welcome to the skeptic zone

6
00:00:29,260 --> 00:00:26,360
show number 55 for the sixth of November

7
00:00:32,260 --> 00:00:29,270
2009 Richard Saunders here with you once

8
00:00:34,390 --> 00:00:32,270
again from Sydney Australia we're going

9
00:00:37,900 --> 00:00:34,400
to kick off today's show with part two

10
00:00:40,860 --> 00:00:37,910
of dr. Reggie reports her interview with

11
00:00:44,740 --> 00:00:40,870
John Rennie the recent editor of

12
00:00:46,960 --> 00:00:44,750
Scientific American magazine after that

13
00:00:50,260 --> 00:00:46,970

we have a short report I am made at

14

00:00:52,299 --> 00:00:50,270

Sydney skeptics in the pub where I chat

15

00:00:54,939 --> 00:00:52,309

to an old friend of mine William broom

16

00:00:56,920 --> 00:00:54,949

now some of you may know William room he

17

00:01:01,270 --> 00:00:56,930

does reports for the bad psychics

18

00:01:03,790 --> 00:01:01,280

website in the UK following that we have

19

00:01:06,550 --> 00:01:03,800

our voiceover man Jim wilshire telling

20

00:01:08,890 --> 00:01:06,560

us about the min min man lovely little

21

00:01:11,170 --> 00:01:08,900

poem I think you'll like it and then

22

00:01:13,830 --> 00:01:11,180

we've got a real blast from the past a

23

00:01:16,390 --> 00:01:13,840

lecture given a short make sure given in

24

00:01:21,010 --> 00:01:16,400

1988 at the Australian skeptics

25

00:01:24,670 --> 00:01:21,020

convention all about the new age yes 21

26
00:01:26,740 --> 00:01:24,680
years ago have a listen and you'll hear

27
00:01:30,220 --> 00:01:26,750
what the skeptics back then were

28
00:01:32,560 --> 00:01:30,230
thinking about the new age to round off

29
00:01:34,900 --> 00:01:32,570
the show we have a short report on the

30
00:01:37,180 --> 00:01:34,910
Melbourne Cup the biggest horse race in

31
00:01:39,940 --> 00:01:37,190
Australia where skeptic zone member

32
00:01:43,330 --> 00:01:39,950
amanda rose and i have a lovely day and

33
00:01:45,370 --> 00:01:43,340
bet on some horses do we win do we win

34
00:01:47,620 --> 00:01:45,380
listen to the end of the show and find

35
00:01:50,200 --> 00:01:47,630
out all right that's enough from me

36
00:02:04,880 --> 00:01:50,210
let's get on with this week's episode of

37
00:02:14,130 --> 00:02:08,249
now it's time for dr. Rachel reports

38
00:02:16,920 --> 00:02:14,140

with dr. Rachel Dunlop follow listeners

39

00:02:18,960 --> 00:02:16,930

and welcome to dr. 80 reports this week

40

00:02:20,910 --> 00:02:18,970

I continued my interview with John

41

00:02:24,330 --> 00:02:20,920

Rennie the most recent editor-in-chief

42

00:02:26,400 --> 00:02:24,340

of Scientific American magazine today we

43

00:02:28,320 --> 00:02:26,410

continue our discussions and delve into

44

00:02:31,050 --> 00:02:28,330

the role of the media in the public

45

00:02:33,150 --> 00:02:31,060

understanding of science I started off

46

00:02:35,339 --> 00:02:33,160

by asking John about the general science

47

00:02:37,110 --> 00:02:35,349

education level in America and how

48

00:02:39,900 --> 00:02:37,120

scientific american played a role in

49

00:02:41,220 --> 00:02:39,910

educating the public so can we talk

50

00:02:43,020 --> 00:02:41,230

about that then can we talk about the

51
00:02:45,750 --> 00:02:43,030
public perception of science and also

52
00:02:47,670 --> 00:02:45,760
the public sort of you know literacy and

53
00:02:49,140 --> 00:02:47,680
I know in particular in the United

54
00:02:51,960 --> 00:02:49,150
States it's a very big problem in terms

55
00:02:53,280 --> 00:02:51,970
of scientific literacy I think there

56
00:02:54,780 --> 00:02:53,290
were some surveys done about you know

57
00:02:56,789 --> 00:02:54,790
does the Sun go round there for the

58
00:02:58,319 --> 00:02:56,799
other way in yeah I have to say you know

59
00:03:00,300 --> 00:02:58,329
that in the answers of course does

60
00:03:02,970 --> 00:03:00,310
everybody knows you know the resulting

61
00:03:05,370 --> 00:03:02,980
those are absolutely appalling they're

62
00:03:06,960 --> 00:03:05,380
so appalling that I have to admit I'm

63
00:03:10,590 --> 00:03:06,970

always a little bit skeptical of what

64

00:03:13,590 --> 00:03:10,600

they actually are I mean I life granted

65

00:03:16,170 --> 00:03:13,600

I should probably to settle the question

66

00:03:17,520 --> 00:03:16,180

my own mind really look at the surveys

67

00:03:19,140 --> 00:03:17,530

more closely but I always have this

68

00:03:21,569 --> 00:03:19,150

nagging feeling that something is going

69

00:03:23,580 --> 00:03:21,579

on that that people like don't

70

00:03:25,830 --> 00:03:23,590

understand the question the way that it

71

00:03:27,210 --> 00:03:25,840

was phrased to be good and I just say it

72

00:03:28,920 --> 00:03:27,220

basically saying a paper copy that's

73

00:03:31,440 --> 00:03:28,930

cheap of John right I guess I think

74

00:03:33,780 --> 00:03:31,450

that's actually it I think I don't want

75

00:03:35,849 --> 00:03:33,790

to think that that at least so many

76

00:03:38,069 --> 00:03:35,859

Americans are so stupid they live in

77

00:03:40,379 --> 00:03:38,079

today that they don't get the idea that

78

00:03:42,030 --> 00:03:40,389

the earth goes around the Sun I mean I

79

00:03:43,830 --> 00:03:42,040

that it that that is the kind of thing

80

00:03:47,490 --> 00:03:43,840

that if that actually represents

81

00:03:51,089 --> 00:03:47,500

something that people don't know or

82

00:03:53,309 --> 00:03:51,099

don't don't accept then I mean honestly

83

00:03:54,930 --> 00:03:53,319

a lot of other issues about scientific

84

00:03:56,430 --> 00:03:54,940

illiteracy you just sort of should throw

85

00:04:00,030 --> 00:03:56,440

in the towel because this you know that

86

00:04:03,330 --> 00:04:00,040

it's like where if you can't get that

87

00:04:05,849 --> 00:04:03,340

through to them quantum theory what you

88

00:04:07,199 --> 00:04:05,859

know evolution come on it's you're just

89

00:04:08,970 --> 00:04:07,209

at that point you almost have to just

90

00:04:12,260 --> 00:04:08,980

accept that you're just going to ask

91

00:04:14,610 --> 00:04:12,270

people to please don't get in the way

92

00:04:16,530 --> 00:04:14,620

education for some of the other people

93

00:04:18,930 --> 00:04:16,540

just sort of on that on that similar

94

00:04:21,030 --> 00:04:18,940

theme you and I were on a panel a couple

95

00:04:23,040 --> 00:04:21,040

of days ago at the northeast and science

96

00:04:25,890 --> 00:04:23,050

and skepticism conference in new york

97

00:04:28,830 --> 00:04:25,900

city and our panel was about science and

98

00:04:30,659 --> 00:04:28,840

me and the media obviously you've played

99

00:04:33,360 --> 00:04:30,669

a major role in conveying scientific

100

00:04:34,740 --> 00:04:33,370

information to the public but who do you

101

00:04:36,420 --> 00:04:34,750

think is at fault here i mean do you

102

00:04:38,250 --> 00:04:36,430

think that that the media needs to take

103

00:04:40,409 --> 00:04:38,260

more responsibility for educating the

104

00:04:42,120 --> 00:04:40,419

public about science yeah it's joy media

105

00:04:43,470 --> 00:04:42,130

it's I mean this is this is and I think

106

00:04:45,330 --> 00:04:43,480

this was something that could come out

107

00:04:47,340 --> 00:04:45,340

of our panel discussions the other day

108

00:04:50,670 --> 00:04:47,350

is that that I think there there's

109

00:04:52,650 --> 00:04:50,680

probably no shortage of blame that can

110

00:04:55,469 --> 00:04:52,660

be thrown around to virtually everyone

111

00:04:57,240 --> 00:04:55,479

connected with it that is it's very easy

112

00:04:59,070 --> 00:04:57,250

to point fingers obviously at the

113

00:05:00,719 --> 00:04:59,080

schools we should be turning out people

114

00:05:03,300 --> 00:05:00,729

who are better educated about science

115

00:05:05,129 --> 00:05:03,310

it's easy to point it at the scientists

116

00:05:07,350 --> 00:05:05,139

that sometimes they themselves should be

117

00:05:09,090 --> 00:05:07,360

you know commuting either being more

118

00:05:12,540 --> 00:05:09,100

willing to communicate or communicate

119

00:05:14,400 --> 00:05:12,550

better you know you you but I think

120

00:05:16,650 --> 00:05:14,410

certainly obviously a portion of this

121

00:05:21,180 --> 00:05:16,660

definitely goes the way of the media and

122

00:05:25,020 --> 00:05:21,190

and I think that that there are there

123

00:05:28,740 --> 00:05:25,030

are real kinds of of fault the dual I

124

00:05:31,560 --> 00:05:28,750

with the media that have even if root

125

00:05:34,409 --> 00:05:31,570

causes us a scientific misunderstanding

126

00:05:36,719 --> 00:05:34,419

or ignorance are rooted elsewhere that

127

00:05:39,180 --> 00:05:36,729

they're very badly compounded from time

128

00:05:41,520 --> 00:05:39,190

to time no and I think what also he's

129

00:05:44,790 --> 00:05:41,530

very frustrating you know I this was a

130

00:05:47,790 --> 00:05:44,800

point that Howard Schneider from Stony

131

00:05:49,590 --> 00:05:47,800

Brook University who's a well-decorated

132

00:05:51,630 --> 00:05:49,600

journals that he was making sort of

133

00:05:54,360 --> 00:05:51,640

standing up in defense of the profession

134

00:05:57,900 --> 00:05:54,370

is that he made the point that actually

135

00:06:00,000 --> 00:05:57,910

notwithstanding sort of that it's it's

136

00:06:01,830 --> 00:06:00,010

very easy for a lot of us say oh the

137

00:06:04,110 --> 00:06:01,840

stupid media look they managed to botch

138

00:06:05,340 --> 00:06:04,120

these things again even on things like

139

00:06:07,620 --> 00:06:05,350

where they talk about the sort of be the

140

00:06:10,980 --> 00:06:07,630

false balance issues of look every time

141

00:06:12,690 --> 00:06:10,990

they run an article about evolution or

142

00:06:14,790 --> 00:06:12,700

controversy surrounding evolution they

143

00:06:16,710 --> 00:06:14,800

always manage to get that dopey

144

00:06:20,490 --> 00:06:16,720

creationist viewpoint tucked in at the

145

00:06:22,409 --> 00:06:20,500

end too you know I think he makes a

146

00:06:23,040 --> 00:06:22,419

point that really almost if you look

147

00:06:26,100 --> 00:06:23,050

through

148

00:06:28,439 --> 00:06:26,110

piece by piece article by article a lot

149

00:06:30,330 --> 00:06:28,449

of them really actually hold up quite

150

00:06:33,779 --> 00:06:30,340

well at least when you're talking about

151

00:06:35,700 --> 00:06:33,789

sort of the the cream of the media the

152

00:06:38,670 --> 00:06:35,710

the New York Times and sort of other

153

00:06:41,279 --> 00:06:38,680

other better newspapers or some the rest

154

00:06:43,830 --> 00:06:41,289

of those I think what's what makes it

155

00:06:45,689 --> 00:06:43,840

sort of a confounding Lee difficult

156

00:06:48,600 --> 00:06:45,699

problem to address is that sometimes

157

00:06:51,450 --> 00:06:48,610

item-by-item things are perfectly good

158

00:06:54,809 --> 00:06:51,460

or perfectly reasonable and yet it seems

159

00:06:56,490 --> 00:06:54,819

as though the body of work consisting of

160

00:07:00,330 --> 00:06:56,500

all those different individual items

161

00:07:03,020 --> 00:07:00,340

somehow has some larger problem maybe

162

00:07:05,279 --> 00:07:03,030

it's just the fact that even if say

163

00:07:08,369 --> 00:07:05,289

bringing in statements from global

164

00:07:10,950 --> 00:07:08,379

warming deniers deep down and

165

00:07:13,920 --> 00:07:10,960

appropriately contextualized inside an

166

00:07:15,930 --> 00:07:13,930

article about climate change even though

167

00:07:17,700 --> 00:07:15,940

that's happened and it seems by rights

168

00:07:20,700 --> 00:07:17,710

that that's a journalistic Lee

169

00:07:22,800 --> 00:07:20,710

appropriate thing to do maybe in just

170

00:07:25,020 --> 00:07:22,810

that happening again and again and again

171

00:07:27,719 --> 00:07:25,030

helps to keep alive that point of view

172

00:07:30,600 --> 00:07:27,729

in certain people's minds it is tricky

173

00:07:32,459 --> 00:07:30,610

though because because and I and I say

174

00:07:36,110 --> 00:07:32,469

this as somebody who has certainly made

175

00:07:38,850 --> 00:07:36,120

the argument that I think that a lot of

176

00:07:41,219 --> 00:07:38,860

science journalists on certain issues

177

00:07:43,980 --> 00:07:41,229

should not worry too much about being

178

00:07:46,980 --> 00:07:43,990

perceived as as advocates you know I

179

00:07:48,450 --> 00:07:46,990

think that that you know my maybe overly

180

00:07:50,700 --> 00:07:48,460

simplistic view of these things is my

181

00:07:53,760 --> 00:07:50,710

job as a science journalist is to try to

182

00:07:56,879 --> 00:07:53,770

educate people about what I understand

183

00:07:58,769 --> 00:07:56,889

to be true and meaningful about things

184

00:08:02,610 --> 00:07:58,779

happening in science which means that at

185

00:08:04,950 --> 00:08:02,620

times I if I know that creationism is is

186

00:08:07,200 --> 00:08:04,960

not a real scientific point of view I

187

00:08:09,540 --> 00:08:07,210

feel no particular responsibility in the

188

00:08:13,800 --> 00:08:09,550

name of fairness to try to bring that in

189

00:08:15,659 --> 00:08:13,810

I think that there are you know but but

190

00:08:16,769 --> 00:08:15,669

but this can get very very tricky and

191

00:08:22,100 --> 00:08:16,779

one of the things that came up in our

192

00:08:25,320 --> 00:08:22,110

discussion is that a lot of articles or

193

00:08:27,149 --> 00:08:25,330

stories that appear in the news me know

194

00:08:29,820 --> 00:08:27,159

television in the radio or whatever else

195

00:08:32,819 --> 00:08:29,830

they don't always sit squarely within

196

00:08:35,730 --> 00:08:32,829

the camp of this is an article about the

197

00:08:36,260 --> 00:08:35,740

science or this is an article about save

198

00:08:40,580 --> 00:08:36,270

the

199

00:08:42,620 --> 00:08:40,590

sometimes have a foot in both and

200

00:08:44,870 --> 00:08:42,630

they're Blair that distinction to that

201

00:08:46,850 --> 00:08:44,880

night right well and like a yeah well

202

00:08:47,990 --> 00:08:46,860

and ultimate and the justifications for

203

00:08:50,360 --> 00:08:48,000

what you would do in each of those cases

204

00:08:53,660 --> 00:08:50,370

so if I'm writing an article that is

205

00:08:57,170 --> 00:08:53,670

very straightforwardly about the science

206

00:08:59,300 --> 00:08:57,180

of evolution there is no reasonable

207

00:09:02,090 --> 00:08:59,310

point in there for me to be writing

208

00:09:03,440 --> 00:09:02,100

about creationist points of view on the

209

00:09:06,680 --> 00:09:03,450

other hand if I'm writing an article

210

00:09:10,040 --> 00:09:06,690

that is sort of about the the social

211

00:09:12,410 --> 00:09:10,050

context of evolution even if I want to

212

00:09:13,400 --> 00:09:12,420

make the point in their analysis

213

00:09:14,870 --> 00:09:13,410

shouldn't make the point in there that

214

00:09:17,360 --> 00:09:14,880

obviously evolution is the only

215

00:09:19,640 --> 00:09:17,370

scientifically validated of perspective

216

00:09:22,370 --> 00:09:19,650

on this still it would be kind of

217

00:09:24,770 --> 00:09:22,380

disingenuous of me to not acknowledge

218

00:09:26,270 --> 00:09:24,780

the fact that certainly here in the

219

00:09:28,550 --> 00:09:26,280

United States you've got a lot of people

220

00:09:30,620 --> 00:09:28,560

who are not on board with that yeah and

221

00:09:33,140 --> 00:09:30,630

that and that it becomes a real issue in

222

00:09:35,420 --> 00:09:33,150

things like you know textbook standards

223

00:09:38,330 --> 00:09:35,430

in fact would be really remove me as a

224

00:09:41,030 --> 00:09:38,340

journalist not to mention that so if I'm

225

00:09:42,770 --> 00:09:41,040

writing an article that is trying to do

226

00:09:45,830 --> 00:09:42,780

a bit of both and explain some of the

227

00:09:48,170 --> 00:09:45,840

science and talk about some of this you

228

00:09:51,170 --> 00:09:48,180

know people who are looking at that

229

00:09:53,300 --> 00:09:51,180

story would say a very scientific lens

230

00:09:55,700 --> 00:09:53,310

may really feel like oh you're mucking

231

00:09:57,740 --> 00:09:55,710

up the the story of the science on this

232

00:10:01,280 --> 00:09:57,750

by dragging in those lunatics who

233

00:10:05,710 --> 00:10:01,290

believe in creation it's not easy and

234

00:10:08,360 --> 00:10:05,720

you and you do want to be careful about

235

00:10:10,220 --> 00:10:08,370

telling telling journalists or

236

00:10:11,960 --> 00:10:10,230

journalism in general given what their

237

00:10:14,300 --> 00:10:11,970

general mandate is supposed to be that

238

00:10:15,470 --> 00:10:14,310

there are certain perspectives that you

239

00:10:18,410 --> 00:10:15,480

should just decide for yourselves you're

240

00:10:20,360 --> 00:10:18,420

just not going to bother to include you

241

00:10:22,780 --> 00:10:20,370

know I hate it it's tricky I don't think

242

00:10:25,190 --> 00:10:22,790

and especially for people who are

243

00:10:27,290 --> 00:10:25,200

operating under deadlines and lots of

244

00:10:30,020 --> 00:10:27,300

other things sometimes the wrong calls

245

00:10:31,430 --> 00:10:30,030

get get made so it's tricky I think you

246

00:10:34,130 --> 00:10:31,440

make a really good point though there by

247

00:10:36,800 --> 00:10:34,140

saying that if it's a social analysis of

248

00:10:38,270 --> 00:10:36,810

the sort of the moon you know the

249

00:10:40,700 --> 00:10:38,280

situation of hand for example

250

00:10:42,590 --> 00:10:40,710

creationism or you know my pet interest

251

00:10:44,240 --> 00:10:42,600

which is the anti boxes right then I see

252

00:10:46,520 --> 00:10:44,250

no reason why you shouldn't include that

253

00:10:49,330 --> 00:10:46,530

but where the line gets blurred is when

254

00:10:52,240 --> 00:10:49,340

the science is presented yes as is kind

255

00:10:54,370 --> 00:10:52,250

no one and then there's a throw away a

256

00:10:55,720 --> 00:10:54,380

couple of paragraphs from you know the

257

00:10:58,900 --> 00:10:55,730

ante backs movement who don't base

258

00:11:01,270 --> 00:10:58,910

anything on science and so as a member

259

00:11:03,490 --> 00:11:01,280

of the public I'm probably going to

260

00:11:05,200 --> 00:11:03,500

confuse those two and there's no reason

261

00:11:07,180 --> 00:11:05,210

why I wouldn't think that the anti

262

00:11:08,710 --> 00:11:07,190

baxter phys science as well you know one

263

00:11:10,630 --> 00:11:08,720

of the things that I mean we talked

264

00:11:12,900 --> 00:11:10,640

about some of the other kind of the the

265

00:11:15,940 --> 00:11:12,910

really deeply unfortunate

266

00:11:18,100 --> 00:11:15,950

misunderstandings within the public and

267

00:11:21,910 --> 00:11:18,110

maybe in a sense among within the sort

268

00:11:23,590 --> 00:11:21,920

of the the semi educated public about

269

00:11:28,690 --> 00:11:23,600

the science and in some ways they're the

270

00:11:30,220 --> 00:11:28,700

people who are who are most most

271

00:11:32,080 --> 00:11:30,230

troublesome for all of this because the

272

00:11:34,060 --> 00:11:32,090

people who are genuinely naive about

273

00:11:36,880 --> 00:11:34,070

science and not interested in science

274

00:11:39,100 --> 00:11:36,890

stay out of it the problems are the ones

275

00:11:42,730 --> 00:11:39,110

who they know just enough science to be

276

00:11:44,890 --> 00:11:42,740

dangerous it is is the problem and comes

277

00:11:48,610 --> 00:11:44,900

up and I really think this is at the

278

00:11:51,910 --> 00:11:48,620

root of other endless sorts of you know

279

00:11:55,630 --> 00:11:51,920

pseudo scientific controversies is the

280

00:11:58,210 --> 00:11:55,640

the the Galileo myth which is that album

281

00:12:00,930 --> 00:11:58,220

of you know that yes the whole

282

00:12:04,720 --> 00:12:00,940

scientific scientific establishment says

283

00:12:08,440 --> 00:12:04,730

that the drama but Galileo was Galileo

284

00:12:10,390 --> 00:12:08,450

was right and and that notion that that

285

00:12:14,620 --> 00:12:10,400

is genuinely wrong that it only takes

286

00:12:17,770 --> 00:12:14,630

one experimental result to completely

287

00:12:20,020 --> 00:12:17,780

knock down some huge edifice of a theory

288

00:12:22,030 --> 00:12:20,030

like it's just not true I mean

289

00:12:24,040 --> 00:12:22,040

especially not true in practice is all

290

00:12:26,290 --> 00:12:24,050

real working scientists know for told

291

00:12:28,630 --> 00:12:26,300

even in principle it would have to be

292

00:12:30,970 --> 00:12:28,640

one hell of a scientific result to

293

00:12:33,610 --> 00:12:30,980

suddenly actually take down everything

294

00:12:36,100 --> 00:12:33,620

that was there was believed about a well

295

00:12:39,130 --> 00:12:36,110

substantiated theory what would be a

296

00:12:41,110 --> 00:12:39,140

result that would take down our you know

297

00:12:43,210 --> 00:12:41,120

the the theory of universal gravitation

298

00:12:44,860 --> 00:12:43,220

what would be the result that we would

299

00:12:48,550 --> 00:12:44,870

have to have them do that you would need

300

00:12:49,870 --> 00:12:48,560

to have an instance of anti-gravity and

301
00:12:52,510 --> 00:12:49,880
it would have to be an instance of

302
00:12:56,140 --> 00:12:52,520
anti-gravity that didn't just leave you

303
00:12:59,140 --> 00:12:56,150
to amend everything else that you had in

304
00:13:00,680 --> 00:12:59,150
science it actually caused you to have

305
00:13:01,850 --> 00:13:00,690
to tear the whole thing down

306
00:13:03,770 --> 00:13:01,860
it would be the kind of thing and said

307
00:13:05,090 --> 00:13:03,780
look we've been fooling ourselves there

308
00:13:06,860 --> 00:13:05,100
aren't atoms at all what were we

309
00:13:10,220 --> 00:13:06,870
thinking there are actually you know

310
00:13:11,810 --> 00:13:10,230
tiny little microscopic frogs I thought

311
00:13:14,000 --> 00:13:11,820
they were out of its well this changes

312
00:13:15,980 --> 00:13:14,010
everything yeah but that's that's I

313
00:13:20,000 --> 00:13:15,990

think what happens in people that's

314

00:13:24,370 --> 00:13:20,010

what's so loopy about some of the kind

315

00:13:28,850 --> 00:13:24,380

of the would be scientific critics of

316

00:13:30,860 --> 00:13:28,860

evolution or global warming evidence or

317

00:13:34,640 --> 00:13:30,870

some of this is that they will point to

318

00:13:38,600 --> 00:13:34,650

their pet experiment or their pet body

319

00:13:41,180 --> 00:13:38,610

of work and say well if this is true all

320

00:13:42,710 --> 00:13:41,190

the rest of this must be false but it's

321

00:13:45,170 --> 00:13:42,720

just not the case I mean in physics

322

00:13:48,350 --> 00:13:45,180

which is I mean physics it which is as

323

00:13:50,540 --> 00:13:48,360

as solid and mathematical and rigorous

324

00:13:52,130 --> 00:13:50,550

and substantiated a science really as

325

00:13:55,880 --> 00:13:52,140

you as you can find I mean you can

326

00:13:58,310 --> 00:13:55,890

literally the predictions come out of

327

00:14:00,740 --> 00:13:58,320

different models that can be tested to

328

00:14:05,690 --> 00:14:00,750

umpteenth different decimal points of

329

00:14:07,970 --> 00:14:05,700

accuracy leaving within those people

330

00:14:10,340 --> 00:14:07,980

come up with with sort of anomalous

331

00:14:11,900 --> 00:14:10,350

results all the cut all the time people

332

00:14:13,640 --> 00:14:11,910

come up with things like that's weird

333

00:14:14,780 --> 00:14:13,650

that doesn't seem like right we would

334

00:14:17,240 --> 00:14:14,790

have figured that should have been a

335

00:14:19,700 --> 00:14:17,250

little bit different but it doesn't mean

336

00:14:22,340 --> 00:14:19,710

that everybody says well tear up your

337

00:14:25,160 --> 00:14:22,350

relativity papers a throw up quantum

338

00:14:26,810 --> 00:14:25,170

theory because it's much more likely in

339

00:14:30,320 --> 00:14:26,820

a lot of those cases that your anomalous

340

00:14:32,060 --> 00:14:30,330

result is wrong or 50 first of all or if

341

00:14:34,670 --> 00:14:32,070

it's packaged actually turns out to be

342

00:14:36,590 --> 00:14:34,680

true it is probably validated by

343

00:14:38,720 --> 00:14:36,600

something that is you know a minor

344

00:14:41,390 --> 00:14:38,730

codicil that you make to the rest of it

345

00:14:42,770 --> 00:14:41,400

I mean a good example is and this is

346

00:14:47,030 --> 00:14:42,780

like perfect example of an anomalous

347

00:14:49,790 --> 00:14:47,040

thing as the it's been noticed that some

348

00:14:51,380 --> 00:14:49,800

of the deep-space probes that we've been

349

00:14:53,120 --> 00:14:51,390

sending out you know far other the

350

00:14:56,980 --> 00:14:53,130

they're on a trajectory out of the solar

351
00:15:00,920 --> 00:14:56,990
system it's been noticed that they are

352
00:15:03,350 --> 00:15:00,930
moving I think a little bit slower than

353
00:15:06,500 --> 00:15:03,360
they're supposed to be it's strange it's

354
00:15:07,530 --> 00:15:06,510
like you know all all of what we know

355
00:15:08,370 --> 00:15:07,540
about

356
00:15:10,050 --> 00:15:08,380
you know sort of the standard

357
00:15:11,430 --> 00:15:10,060
gravitational calculations and our

358
00:15:13,920 --> 00:15:11,440
understanding of the bodies that are out

359
00:15:15,509 --> 00:15:13,930
there would suggest these things should

360
00:15:16,680 --> 00:15:15,519
be moving a little bit faster at this

361
00:15:18,269 --> 00:15:16,690
point than they are and it keeps

362
00:15:21,540 --> 00:15:18,279
happening over and over again with these

363
00:15:24,540 --> 00:15:21,550

different probes so on the face of it

364

00:15:27,900 --> 00:15:24,550

that's something that's a result that

365

00:15:30,240 --> 00:15:27,910

can seriously knock down some of what

366

00:15:33,960 --> 00:15:30,250

you would understand about about gravity

367

00:15:36,569 --> 00:15:33,970

gravity going back to Newton but you

368

00:15:38,430 --> 00:15:36,579

know whatever the result of that is okay

369

00:15:40,499 --> 00:15:38,440

it's probably the fact that it's been

370

00:15:41,970 --> 00:15:40,509

observed independently enough over and

371

00:15:44,069 --> 00:15:41,980

over against Joseph's probably it's not

372

00:15:45,540 --> 00:15:44,079

just a mistake it's not just a

373

00:15:46,829 --> 00:15:45,550

measurement error although I think there

374

00:15:48,840 --> 00:15:46,839

are some people who argue even that

375

00:15:51,509 --> 00:15:48,850

can't necessarily be ruled out

376

00:15:53,430 --> 00:15:51,519

completely but it's also very likely

377

00:15:55,949 --> 00:15:53,440

that okay there are other gravitational

378

00:15:58,920 --> 00:15:55,959

masses that maybe in the solar system

379

00:16:01,019 --> 00:15:58,930

that people aren't accounting for likely

380

00:16:03,120 --> 00:16:01,029

and that might be something but you know

381

00:16:04,559 --> 00:16:03,130

the most far-out answer is that well

382

00:16:06,090 --> 00:16:04,569

you're actually looking at something

383

00:16:08,249 --> 00:16:06,100

that says that when you're talking about

384

00:16:11,189 --> 00:16:08,259

you know that's that sort of

385

00:16:14,519 --> 00:16:11,199

astronomical kind of distance that maybe

386

00:16:16,620 --> 00:16:14,529

some they know there are extra terms

387

00:16:18,509 --> 00:16:16,630

that need to be added to the relatively

388

00:16:21,689 --> 00:16:18,519

straightforward gravitational

389

00:16:24,439 --> 00:16:21,699

calculations but even that doesn't knock

390

00:16:27,689 --> 00:16:24,449

down Newton's theory of gravity yeah

391

00:16:30,449 --> 00:16:27,699

general relativity did not dot knock

392

00:16:32,460 --> 00:16:30,459

down Newton's there is a gravity it just

393

00:16:34,050 --> 00:16:32,470

amended them and showed that under

394

00:16:36,840 --> 00:16:34,060

certain circumstances you yuge you

395

00:16:38,519 --> 00:16:36,850

needed to calculate them differently in

396

00:16:40,650 --> 00:16:38,529

quantum theory you know that's the

397

00:16:43,470 --> 00:16:40,660

fascinating is that too hasn't managed

398

00:16:45,990 --> 00:16:43,480

to negate relativity theory the

399

00:16:49,800 --> 00:16:46,000

fascinating thing is that both of those

400

00:16:52,639 --> 00:16:49,810

are clearly robustly very very true even

401
00:16:56,460 --> 00:16:52,649
though they operate on what are

402
00:16:58,019 --> 00:16:56,470
fundamentally irreconcilable sets of

403
00:17:00,629 --> 00:16:58,029
fundamental principles about kind of how

404
00:17:02,639 --> 00:17:00,639
the universe is put together and so the

405
00:17:03,929 --> 00:17:02,649
great search is to try to figure out how

406
00:17:05,520 --> 00:17:03,939
do you make those two things come

407
00:17:07,049 --> 00:17:05,530
together in some way but that's just

408
00:17:09,329 --> 00:17:07,059
fascinating as part of what's exciting

409
00:17:11,399 --> 00:17:09,339
about Sciences is not having answers

410
00:17:13,110 --> 00:17:11,409
like that yeah but that's your opinion

411
00:17:14,699 --> 00:17:13,120
John I mean they're the public might say

412
00:17:16,240 --> 00:17:14,709
to you will but scientists keep changing

413
00:17:18,010 --> 00:17:16,250

their mind all the time right now

414

00:17:19,870 --> 00:17:18,020

and this is one of the big problems that

415

00:17:22,569 --> 00:17:19,880

I think the media contributes to you as

416

00:17:24,420 --> 00:17:22,579

well where as you mentioned before you

417

00:17:26,829 --> 00:17:24,430

know journalists have deadlines they

418

00:17:29,050 --> 00:17:26,839

some of them are not necessarily trained

419

00:17:30,580 --> 00:17:29,060

a science journalist either right and so

420

00:17:33,760 --> 00:17:30,590

they might pick up an abstract from a

421

00:17:35,380 --> 00:17:33,770

paper and and as you would well no

422

00:17:37,240 --> 00:17:35,390

abstracts often not very representative

423

00:17:39,430 --> 00:17:37,250

of what is in the rest of the paper

424

00:17:41,260 --> 00:17:39,440

right right and so one we can't you know

425

00:17:43,660 --> 00:17:41,270

cancers caused by coffee in the next

426

00:17:46,540 --> 00:17:43,670

week you know coffee cures cancer right

427

00:17:48,460 --> 00:17:46,550

well I mean some of that and forgive me

428

00:17:50,320 --> 00:17:48,470

if I if I jump up on what's a lot of

429

00:17:52,240 --> 00:17:50,330

like a little a little hobby horse of my

430

00:17:53,890 --> 00:17:52,250

own about some of this is that this is

431

00:17:55,570 --> 00:17:53,900

something that that when I speak to

432

00:17:59,710 --> 00:17:55,580

groups of science journalists in general

433

00:18:01,750 --> 00:17:59,720

i've been i've been pleading with all of

434

00:18:03,760 --> 00:18:01,760

us as a profession to try to do some

435

00:18:08,620 --> 00:18:03,770

level of rethink about what constitutes

436

00:18:12,490 --> 00:18:08,630

science news because most of what shows

437

00:18:15,100 --> 00:18:12,500

up as science news at the moment is it

438

00:18:17,590 --> 00:18:15,110

very commonly defaults to a kind of

439

00:18:20,260 --> 00:18:17,600

exciting paper in a very reputable

440

00:18:22,570 --> 00:18:20,270

journal this week and that's what we're

441

00:18:24,730 --> 00:18:22,580

going to make that and that that lends

442

00:18:26,470 --> 00:18:24,740

itself very well to kind of what are in

443

00:18:28,780 --> 00:18:26,480

effect sort of little data points in

444

00:18:31,690 --> 00:18:28,790

science the thing that says you know

445

00:18:34,810 --> 00:18:31,700

broccoli will help prevent prostate

446

00:18:38,200 --> 00:18:34,820

cancer and then a few weeks later

447

00:18:41,220 --> 00:18:38,210

another paper comes out and it may some

448

00:18:44,140 --> 00:18:41,230

you know maybe it doesn't say broccoli

449

00:18:45,730 --> 00:18:44,150

will you know will cause prostate cancer

450

00:18:48,130 --> 00:18:45,740

but it may think something like oh

451

00:18:50,080 --> 00:18:48,140

broccoli will increase your chances of

452

00:18:51,550 --> 00:18:50,090

heart disease or whatever else and so

453

00:18:53,260 --> 00:18:51,560

you do get a lot of the public that says

454

00:18:55,570 --> 00:18:53,270

am I supposed to eat broccoli or am I

455

00:18:57,490 --> 00:18:55,580

not supposed to put that's right and and

456

00:18:59,770 --> 00:18:57,500

i think india or not to mention the fact

457

00:19:01,540 --> 00:18:59,780

as as you well know signs papers are

458

00:19:05,410 --> 00:19:01,550

published and then they often you know

459

00:19:07,210 --> 00:19:05,420

the results just don't hold up or they

460

00:19:10,780 --> 00:19:07,220

just don't have the full significance or

461

00:19:11,920 --> 00:19:10,790

meaning that they sometimes did I mean I

462

00:19:14,020 --> 00:19:11,930

think you can sort of do it would be

463

00:19:15,370 --> 00:19:14,030

sort of an interesting exercise and no

464

00:19:22,180 --> 00:19:15,380

one's going to do this but I mean

465

00:19:23,920 --> 00:19:22,190

imagine if the all journalism outlets in

466

00:19:25,180 --> 00:19:23,930

the world decided that they were just

467

00:19:27,130 --> 00:19:25,190

going to

468

00:19:28,720 --> 00:19:27,140

declare a certain moratorium that

469

00:19:30,370 --> 00:19:28,730

instead of when a paper comes out it has

470

00:19:32,610 --> 00:19:30,380

to be published and be in the news right

471

00:19:35,590 --> 00:19:32,620

that week if everybody was going to say

472

00:19:38,920 --> 00:19:35,600

we're not going to publish it for at

473

00:19:40,480 --> 00:19:38,930

least three months or six months because

474

00:19:41,710 --> 00:19:40,490

if you did that it would be very very

475

00:19:44,070 --> 00:19:41,720

different because there are a lot of

476

00:19:46,300 --> 00:19:44,080

papers that would come up but suddenly

477

00:19:48,850 --> 00:19:46,310

nobody would actually care about three

478

00:19:50,860 --> 00:19:48,860

months later anymore and there are a lot

479

00:19:53,650 --> 00:19:50,870

of things that you know other results

480

00:19:56,340 --> 00:19:53,660

would be processed and brought in now I

481

00:19:58,660 --> 00:19:56,350

think it's really unfortunate that the

482

00:20:01,960 --> 00:19:58,670

this sort of goes to the problem of the

483

00:20:05,290 --> 00:20:01,970

nature of the business of journalism is

484

00:20:06,790 --> 00:20:05,300

that it pushes very very hard for the

485

00:20:10,090 --> 00:20:06,800

importance of things obviously like

486

00:20:13,440 --> 00:20:10,100

journalistic scoops and for being very

487

00:20:15,820 --> 00:20:13,450

very competitive and attracting as many

488

00:20:19,450 --> 00:20:15,830

readers or viewers or whatever as

489

00:20:20,920 --> 00:20:19,460

possible and you know there are lots of

490

00:20:24,160 --> 00:20:20,930

things that are perfectly defensible

491

00:20:26,940 --> 00:20:24,170

about that on lots of terms but but if

492

00:20:31,050 --> 00:20:26,950

if what you're looking to optimize is

493

00:20:34,600 --> 00:20:31,060

the public's understanding of science

494

00:20:36,550 --> 00:20:34,610

very broadly there's nothing in that

495

00:20:38,020 --> 00:20:36,560

model for journalism that says that's

496

00:20:40,690 --> 00:20:38,030

what's going to happen yeah you're going

497

00:20:42,760 --> 00:20:40,700

to instead get a lot of sort of heard

498

00:20:44,260 --> 00:20:42,770

journalism everybody jumps on certain

499

00:20:45,940 --> 00:20:44,270

kinds of stories because they don't want

500

00:20:48,010 --> 00:20:45,950

to be the one place that didn't do that

501
00:20:51,130 --> 00:20:48,020
story you're going to get a certain

502
00:20:53,590 --> 00:20:51,140
amount of in some cases jumping on some

503
00:20:55,510 --> 00:20:53,600
things a little prematurely and you're

504
00:20:57,070 --> 00:20:55,520
going to get a kind of a focus on

505
00:20:59,170 --> 00:20:57,080
certain kinds of stories that are very

506
00:21:01,090 --> 00:20:59,180
very easy to sell and you're going to

507
00:21:05,020 --> 00:21:01,100
lose a lot of attention whether so

508
00:21:08,350 --> 00:21:05,030
astronomy stories get lots of play in in

509
00:21:12,460 --> 00:21:08,360
the general press stories about animals

510
00:21:15,040 --> 00:21:12,470
get a lot of play stories about a lot of

511
00:21:17,170 --> 00:21:15,050
ways our own psychology often get a lot

512
00:21:20,620 --> 00:21:17,180
of attention certain kinds of medical

513
00:21:22,110 --> 00:21:20,630

stories get a lot of attention but come

514

00:21:25,290 --> 00:21:22,120

on the sort of the bread and butter

515

00:21:28,210 --> 00:21:25,300

material science or chemistry stories

516

00:21:30,990 --> 00:21:28,220

the kinds of physics stories that don't

517

00:21:34,470 --> 00:21:31,000

involve things like dark matter or

518

00:21:36,480 --> 00:21:34,480

you know or or the Large Hadron Collider

519

00:21:39,060 --> 00:21:36,490

you know things that don't have a

520

00:21:43,170 --> 00:21:39,070

certain kind of glamour to them it's

521

00:21:46,830 --> 00:21:43,180

very very tough to get those a lot of

522

00:21:48,030 --> 00:21:46,840

space routinely in a lot of the general

523

00:21:50,400 --> 00:21:48,040

press when you get into the more

524

00:21:53,100 --> 00:21:50,410

specialized press sure then you can then

525

00:21:56,460 --> 00:21:53,110

you can get it but that's that's sort of

526

00:21:59,550 --> 00:21:56,470

not what the problem is the roblem is

527

00:22:04,080 --> 00:21:59,560

the most people think most science

528

00:22:06,060 --> 00:22:04,090

involves a lot of astronomy well on that

529

00:22:07,800 --> 00:22:06,070

sort of issue of jumping on a paper as

530

00:22:09,420 --> 00:22:07,810

soon as it's published that sort of is

531

00:22:11,070 --> 00:22:09,430

partly responsible for what happened

532

00:22:13,050 --> 00:22:11,080

with the engine Wakefield study would

533

00:22:15,990 --> 00:22:13,060

the autism connection with date with

534

00:22:17,280 --> 00:22:16,000

vaccinations in 1998 and I think if

535

00:22:18,510 --> 00:22:17,290

journalists that maybe waited a bit

536

00:22:20,490 --> 00:22:18,520

longer done a little bit more research

537

00:22:22,910 --> 00:22:20,500

they may have found out that you know

538

00:22:25,110 --> 00:22:22,920

his previous two papers were actually

539

00:22:27,270 --> 00:22:25,120

demonstrated to be wrong and of course

540

00:22:29,510 --> 00:22:27,280

the health the impact on the public

541

00:22:32,760 --> 00:22:29,520

health has been huge in that and

542

00:22:33,900 --> 00:22:32,770

particularly in that example but when we

543

00:22:36,690 --> 00:22:33,910

were talking to Howard Schneider on

544

00:22:38,940 --> 00:22:36,700

Saturday at the conference his opinion

545

00:22:41,340 --> 00:22:38,950

was well we're just reporting the

546

00:22:42,990 --> 00:22:41,350

stories it's up to the public really to

547

00:22:45,300 --> 00:22:43,000

sort of work out whether that's right oh

548

00:22:47,430 --> 00:22:45,310

that's wrong and what's your opinion of

549

00:22:51,540 --> 00:22:47,440

that yeah i think it's i think it's it's

550

00:22:53,310 --> 00:22:51,550

it's tough that's that is a admitted

551

00:22:56,190 --> 00:22:53,320

that there are aspects of that point

552

00:22:59,250 --> 00:22:56,200

that i can argue to myself both ways I

553

00:23:03,990 --> 00:22:59,260

mean I I always feel that it is it is a

554

00:23:05,640 --> 00:23:04,000

little disingenuous for us journalists

555

00:23:08,610 --> 00:23:05,650

to be in a position to sometimes say

556

00:23:10,650 --> 00:23:08,620

well we are we're not we don't want to

557

00:23:12,840 --> 00:23:10,660

be the gatekeepers we we are just

558

00:23:14,310 --> 00:23:12,850

presenting what is going on out there

559

00:23:17,250 --> 00:23:14,320

we're talking about what other people

560

00:23:19,080 --> 00:23:17,260

are saying we you know other people are

561

00:23:20,790 --> 00:23:19,090

the news we are simply the vehicle of

562

00:23:23,250 --> 00:23:20,800

that and if other people are saying this

563

00:23:25,290 --> 00:23:23,260

we have a responsibility to be passing

564

00:23:29,550 --> 00:23:25,300

that along I think it's disingenuous

565

00:23:32,640 --> 00:23:29,560

because the reality is that all writers

566

00:23:34,560 --> 00:23:32,650

and reporters and editors when they are

567

00:23:37,080 --> 00:23:34,570

putting together stories of any kind

568

00:23:37,690 --> 00:23:37,090

inevitably you make choices about what

569

00:23:38,980 --> 00:23:37,700

you're going to

570

00:23:42,519 --> 00:23:38,990

load and what you're not going to

571

00:23:44,440 --> 00:23:42,529

include even stories that have you know

572

00:23:47,379 --> 00:23:44,450

that represent a number of points of

573

00:23:49,480 --> 00:23:47,389

view do not represent every point of

574

00:23:54,360 --> 00:23:49,490

view they represent what they think are

575

00:23:59,980 --> 00:23:57,519

representative major points of view on

576

00:24:01,570 --> 00:23:59,990

this it's impossible to get all the

577

00:24:03,820 --> 00:24:01,580

points of view in any story and in fact

578

00:24:05,710 --> 00:24:03,830

one of the the things that sort of most

579

00:24:09,850 --> 00:24:05,720

misleading is how many controversies are

580

00:24:13,120 --> 00:24:09,860

are set up as as just two sided it's a

581

00:24:15,129 --> 00:24:13,130

or its be well he asked with a B and an

582

00:24:18,370 --> 00:24:15,139

entire alphabet of other perspectives on

583

00:24:21,580 --> 00:24:18,380

this that actually may have more or

584

00:24:24,730 --> 00:24:21,590

fewer things in common with those first

585

00:24:26,620 --> 00:24:24,740

two that you set up so it's not the case

586

00:24:28,990 --> 00:24:26,630

that when we're journalists that we're

587

00:24:30,820 --> 00:24:29,000

always you know that weird that we're

588

00:24:32,560 --> 00:24:30,830

not that the problem on that we are

589

00:24:34,450 --> 00:24:32,570

making those choices well on the other

590

00:24:36,899 --> 00:24:34,460

hand it is also the case that with some

591

00:24:39,850 --> 00:24:36,909

of these things kind of frustratingly

592

00:24:41,139 --> 00:24:39,860

particularly when this when the you know

593

00:24:43,870 --> 00:24:41,149

I think those of us who have a lot of

594

00:24:46,180 --> 00:24:43,880

interests in science we sometimes just

595

00:24:47,649 --> 00:24:46,190

expected that the newspapers but that

596

00:24:49,330 --> 00:24:47,659

most of their interest in most of their

597

00:24:51,039 --> 00:24:49,340

stories is going to be that kind of

598

00:24:54,340 --> 00:24:51,049

scientific one but I think a lot of

599

00:24:56,560 --> 00:24:54,350

times the editors and reporters and

600

00:24:58,180 --> 00:24:56,570

writers would point out that the

601
00:25:00,580 --> 00:24:58,190
responsibility they actually have been

602
00:25:03,820 --> 00:25:00,590
publishing this goes considerably beyond

603
00:25:05,259 --> 00:25:03,830
all of that and that there are you know

604
00:25:06,909 --> 00:25:05,269
some of those kinds of things that they

605
00:25:08,680 --> 00:25:06,919
do have to acknowledge and that the

606
00:25:10,180 --> 00:25:08,690
stories are not as we talked about

607
00:25:11,740 --> 00:25:10,190
earlier they're not clearly sort of

608
00:25:13,659 --> 00:25:11,750
partitioned down to here's the science

609
00:25:15,159 --> 00:25:13,669
component to this here's the social

610
00:25:19,450 --> 00:25:15,169
compulsion component this here's the

611
00:25:22,029 --> 00:25:19,460
political component of this you know you

612
00:25:24,580 --> 00:25:22,039
you do need sometimes you do need a

613
00:25:26,649 --> 00:25:24,590

smarter public because because there's

614

00:25:29,649 --> 00:25:26,659

something fun as your your public just

615

00:25:32,230 --> 00:25:29,659

doesn't they just don't understand what

616

00:25:34,870 --> 00:25:32,240

they're being told I mean Ben Goldacre

617

00:25:36,879 --> 00:25:34,880

for example he criticizes science

618

00:25:38,889 --> 00:25:36,889

journalists for sir for the fact that

619

00:25:40,240 --> 00:25:38,899

they dumbed down things too much and he

620

00:25:43,210 --> 00:25:40,250

says you know you watch the news every

621

00:25:45,279 --> 00:25:43,220

night and there's detail reports on the

622

00:25:47,320 --> 00:25:45,289

economy in the financial situation and

623

00:25:48,789 --> 00:25:47,330

not many of us are trained in finance or

624

00:25:50,150 --> 00:25:48,799

economy so they're talking about things

625

00:25:52,880 --> 00:25:50,160

that we don't understand but they don't

626
00:25:55,730 --> 00:25:52,890
down whereas he thinks that science is

627
00:25:57,650 --> 00:25:55,740
to dump down but if the public is that

628
00:25:59,600 --> 00:25:57,660
challenged in terms of their scientific

629
00:26:01,340 --> 00:25:59,610
knowledge then maybe we have to do that

630
00:26:04,220 --> 00:26:01,350
it's a good point I mean I do sometimes

631
00:26:06,560 --> 00:26:04,230
wonder you know that's a reasonable

632
00:26:08,150 --> 00:26:06,570
argument that men is raising about

633
00:26:09,770 --> 00:26:08,160
something that I do sometimes wonder

634
00:26:11,330 --> 00:26:09,780
whether if you talked to people who are

635
00:26:12,560 --> 00:26:11,340
say professional economists at what they

636
00:26:14,810 --> 00:26:12,570
would make Erica I don't know that's

637
00:26:17,120 --> 00:26:14,820
that's a very dumbed-down presentation

638
00:26:20,330 --> 00:26:17,130

of what's going on in my field so maybe

639

00:26:21,980 --> 00:26:20,340

maybe some AAA maybe but but i mean i'd

640

00:26:23,690 --> 00:26:21,990

be willing to concede that that you know

641

00:26:26,780 --> 00:26:23,700

that may not be the case that the fact

642

00:26:29,960 --> 00:26:26,790

is it is it is i mean there are a lot of

643

00:26:32,950 --> 00:26:29,970

attitudes that are very deeply ingrained

644

00:26:36,770 --> 00:26:32,960

may be wrongly within a lot of

645

00:26:38,240 --> 00:26:36,780

journalism that do cut into some of

646

00:26:39,560 --> 00:26:38,250

those questions about about what you're

647

00:26:42,740 --> 00:26:39,570

going to present there is a very strong

648

00:26:44,990 --> 00:26:42,750

sense that a lot of your public is going

649

00:26:47,270 --> 00:26:45,000

to run screaming off into the night if

650

00:26:49,220 --> 00:26:47,280

you do start to get a little too

651
00:26:50,630 --> 00:26:49,230
technical little too detailed and this

652
00:26:52,280 --> 00:26:50,640
is where it's tricky because i think you

653
00:26:54,770 --> 00:26:52,290
almost do want to look or talk about

654
00:26:56,780 --> 00:26:54,780
talking about media or the press or

655
00:26:59,210 --> 00:26:56,790
newspapers or whatever else they're such

656
00:27:00,260 --> 00:26:59,220
broad categories that you almost want to

657
00:27:04,310 --> 00:27:00,270
take these things on a cave of

658
00:27:07,070 --> 00:27:04,320
case-by-case basis the kind of things

659
00:27:09,590 --> 00:27:07,080
that you know public television

660
00:27:11,120 --> 00:27:09,600
audiences might be willing to watch on a

661
00:27:13,120 --> 00:27:11,130
Sunday evening may be very very

662
00:27:17,390 --> 00:27:13,130
different from the kinds of things that

663
00:27:19,370 --> 00:27:17,400

you know aa8 it a different swath of the

664

00:27:22,850 --> 00:27:19,380

public wants to watch on like it's

665

00:27:24,800 --> 00:27:22,860

morning television news program who was

666

00:27:27,800 --> 00:27:24,810

it the PT Barnum or who is so someone is

667

00:27:30,410 --> 00:27:27,810

credited with saying the note no one

668

00:27:31,880 --> 00:27:30,420

ever went broke by under estimating the

669

00:27:35,080 --> 00:27:31,890

intelligence of the amount of the

670

00:27:37,970 --> 00:27:35,090

American public it's a patronizing

671

00:27:39,860 --> 00:27:37,980

perspective to take on it and yet a lot

672

00:27:42,920 --> 00:27:39,870

of people have managed to make a lot of

673

00:27:45,350 --> 00:27:42,930

money that way and you know people I

674

00:27:47,060 --> 00:27:45,360

think they love times of people who are

675

00:27:49,070 --> 00:27:47,070

in these perspective positions to make

676

00:27:50,390 --> 00:27:49,080

these decisions they default to what

677

00:27:52,760 --> 00:27:50,400

seems like well the safer more

678

00:27:54,680 --> 00:27:52,770

conservative assumption is that people

679

00:27:59,720 --> 00:27:54,690

won't actually be very interested in

680

00:28:01,370 --> 00:27:59,730

this so when in doubt heads toward the

681

00:28:04,370 --> 00:28:01,380

realization that there

682

00:28:05,360 --> 00:28:04,380

were to get out of here I do think I

683

00:28:06,650 --> 00:28:05,370

mean I say this is something you know

684

00:28:10,400 --> 00:28:06,660

somebody associated with scientific

685

00:28:13,490 --> 00:28:10,410

american which is certainly the

686

00:28:15,950 --> 00:28:13,500

antithesis of that in many many ways i

687

00:28:18,410 --> 00:28:15,960

have to say scientists are really I've

688

00:28:20,120 --> 00:28:18,420

in my in my judgment is somebody who

689

00:28:23,810 --> 00:28:20,130

sits there kind of intermediary between

690

00:28:26,720 --> 00:28:23,820

the Scientific American audience and the

691

00:28:29,240 --> 00:28:26,730

the scientists authors who write for us

692

00:28:32,600 --> 00:28:29,250

I think a lot of scientists do sometimes

693

00:28:37,970 --> 00:28:32,610

get a distorted perspective about just

694

00:28:40,550 --> 00:28:37,980

how fascinated a lot of the public might

695

00:28:42,620 --> 00:28:40,560

be with their work or how equipped they

696

00:28:44,830 --> 00:28:42,630

are to be able to do it what do you mean

697

00:28:49,960 --> 00:28:44,840

I know it's hard to imagine isn't it

698

00:28:52,580 --> 00:28:49,970

yeah well not your work of course not my

699

00:28:54,560 --> 00:28:52,590

that's but that's right i mean i think

700

00:28:58,190 --> 00:28:54,570

people that you know think they do i

701
00:29:00,290 --> 00:28:58,200
mean i recall in days of you know of

702
00:29:01,910 --> 00:29:00,300
editing articles with with various

703
00:29:05,720 --> 00:29:01,920
scientists of really having to convince

704
00:29:08,720 --> 00:29:05,730
them that most people did not know what

705
00:29:10,460 --> 00:29:08,730
messenger RNA is it's like you know and

706
00:29:12,590 --> 00:29:10,470
i would say i would say we have to stop

707
00:29:16,000 --> 00:29:12,600
and we have to at least explain what

708
00:29:19,310 --> 00:29:16,010
messenger RNA is and you know they

709
00:29:20,990 --> 00:29:19,320
already bristling against some of the

710
00:29:22,550 --> 00:29:21,000
kind of the word constraints that we

711
00:29:24,800 --> 00:29:22,560
were already faced with so everybody

712
00:29:27,500 --> 00:29:24,810
knows that I'm I swear to you they don't

713
00:29:29,480 --> 00:29:27,510

I swear to you they have no they don't

714

00:29:31,820 --> 00:29:29,490

really necessarily know what genes are

715

00:29:34,310 --> 00:29:31,830

you know they're familiar in a very

716

00:29:37,400 --> 00:29:34,320

general general way but the notion that

717

00:29:39,080 --> 00:29:37,410

genes make proteins it's probably worth

718

00:29:42,050 --> 00:29:39,090

reminding them of that sort of thing so

719

00:29:45,500 --> 00:29:42,060

I mean I think even if we embrace the

720

00:29:47,510 --> 00:29:45,510

idea that the public's actual tolerance

721

00:29:49,250 --> 00:29:47,520

for a lot of this and their interest in

722

00:29:53,330 --> 00:29:49,260

a lot of the science is significantly

723

00:29:56,840 --> 00:29:53,340

higher than then maybe in practice we in

724

00:29:59,300 --> 00:29:56,850

the media given credit for the i would

725

00:30:00,520 --> 00:29:59,310

say you still want to be kind of careful

726

00:30:02,740 --> 00:30:00,530

about that

727

00:30:04,810 --> 00:30:02,750

and and and be aware of the fact that

728

00:30:07,330 --> 00:30:04,820

you know people do have a lot of other

729

00:30:09,460 --> 00:30:07,340

interests it's very very easy especially

730

00:30:12,520 --> 00:30:09,470

these days for them to get distracted

731

00:30:13,930 --> 00:30:12,530

off by something else so I think a

732

00:30:16,810 --> 00:30:13,940

fascinating thing with with scientific

733

00:30:20,500 --> 00:30:16,820

American's readership is seeing that a

734

00:30:22,720 --> 00:30:20,510

lot a great many of scientific

735

00:30:25,210 --> 00:30:22,730

American's Raiders deeply deeply love

736

00:30:27,450 --> 00:30:25,220

articles about very hard two kinds of

737

00:30:29,710 --> 00:30:27,460

physics maybe that's not too surprising

738

00:30:31,360 --> 00:30:29,720

what I think is interesting is that is

739

00:30:33,010 --> 00:30:31,370

that we would do our own kind of surveys

740

00:30:35,020 --> 00:30:33,020

about about the responses to various

741

00:30:36,550 --> 00:30:35,030

articles and it I thought it was

742

00:30:38,680 --> 00:30:36,560

interesting to see that sometimes you

743

00:30:40,990 --> 00:30:38,690

would get results that said that that

744

00:30:43,360 --> 00:30:41,000

some of the hardest articles about

745

00:30:45,880 --> 00:30:43,370

physics were the ones that not just that

746

00:30:47,260 --> 00:30:45,890

readers were most interested in but that

747

00:30:49,840 --> 00:30:47,270

sometimes that they were the ones that

748

00:30:53,470 --> 00:30:49,850

they that they thought were were a

749

00:30:55,540 --> 00:30:53,480

clearest and most compelling which is

750

00:30:57,760 --> 00:30:55,550

fascinating because as somebody who's in

751
00:31:00,210 --> 00:30:57,770
cases spent weeks on those articles I'm

752
00:31:02,740 --> 00:31:00,220
pretty sure they can't possibly actually

753
00:31:05,830 --> 00:31:02,750
understand those articles in detail as

754
00:31:08,140 --> 00:31:05,840
well as they as well as they think they

755
00:31:09,790 --> 00:31:08,150
do and I say that not just sort of on

756
00:31:12,250 --> 00:31:09,800
you know my own reflection of that but

757
00:31:14,740 --> 00:31:12,260
basically because of editors and even

758
00:31:16,480 --> 00:31:14,750
the author's themselves wrestling with

759
00:31:18,760 --> 00:31:16,490
what they were getting into print it was

760
00:31:20,980 --> 00:31:18,770
like this is really still not always

761
00:31:22,570 --> 00:31:20,990
quite as lucid as we would like and yet

762
00:31:25,230 --> 00:31:22,580
people would drink that sort of thing up

763
00:31:27,760 --> 00:31:25,240

so sometimes people really really do

764

00:31:30,610 --> 00:31:27,770

love that and want that in-depth

765

00:31:33,970 --> 00:31:30,620

information and to a at least some of

766

00:31:35,590 --> 00:31:33,980

them to a far greater extent than a lot

767

00:31:37,870 --> 00:31:35,600

of the public would or a lot of the

768

00:31:39,730 --> 00:31:37,880

journalism profession would accept that

769

00:31:42,460 --> 00:31:39,740

they're willing to tolerate not

770

00:31:43,900 --> 00:31:42,470

completely understanding things as long

771

00:31:45,880 --> 00:31:43,910

as they feel like they're getting closer

772

00:31:47,080 --> 00:31:45,890

to that big answer so how can I release

773

00:31:49,270 --> 00:31:47,090

those find out more about what you're

774

00:31:51,490 --> 00:31:49,280

doing now is it oh well at the moment

775

00:31:53,740 --> 00:31:51,500

that's a good question i have i will

776

00:31:55,240 --> 00:31:53,750

probably get some sort of website or

777

00:31:57,580 --> 00:31:55,250

whatever set up for myself at the moment

778

00:31:59,470 --> 00:31:57,590

but i think just to looking around for

779

00:32:02,800 --> 00:31:59,480

my name popping up on things have nose

780

00:32:04,510 --> 00:32:02,810

google manages to turn things like hey

781

00:32:06,220 --> 00:32:04,520

you mentioned earlier that if you google

782

00:32:07,690 --> 00:32:06,230

to you that you get some interesting

783

00:32:09,049 --> 00:32:07,700

things turning up yes well it's

784

00:32:10,730 --> 00:32:09,059

interesting the third

785

00:32:12,739 --> 00:32:10,740

you google for John running and

786

00:32:14,239 --> 00:32:12,749

scientific america and you know the the

787

00:32:18,110 --> 00:32:14,249

obvious things would would turn out but

788

00:32:21,680 --> 00:32:18,120

you also rapidly you see many many

789

00:32:23,810 --> 00:32:21,690

online screeds from various people in

790

00:32:26,029 --> 00:32:23,820

the creationist community the cold

791

00:32:27,889 --> 00:32:26,039

fusion community the nanotech community

792

00:32:30,200 --> 00:32:27,899

and of course a lot of people who were

793

00:32:33,940 --> 00:32:30,210

great fans of a Bjorn Lomborg The

794

00:32:39,580 --> 00:32:33,950

Skeptical environmentalist also had a

795

00:32:41,840 --> 00:32:39,590

well noted a set of exchanges over time

796

00:32:43,159 --> 00:32:41,850

all right jumble thank you so much for

797

00:32:45,919 --> 00:32:43,169

joining us today on the skeptics I'm

798

00:32:47,600 --> 00:32:45,929

always my pleasure thank you and a big

799

00:32:50,060 --> 00:32:47,610

thank you to John ready for taking his

800

00:32:52,009 --> 00:32:50,070

time to talk to us if you want to find

801
00:32:54,289 --> 00:32:52,019
out more about some of John's previous

802
00:32:57,139 --> 00:32:54,299
work at Scientific American head to

803
00:33:10,120 --> 00:32:57,149
scientificamerican.com and until next

804
00:33:14,570 --> 00:33:13,010
hi I'm Jason and I'm Andrew from the

805
00:33:17,360 --> 00:33:14,580
nonsense podcast bringing you a

806
00:33:19,159 --> 00:33:17,370
skeptical overview of news religion and

807
00:33:20,960 --> 00:33:19,169
all forms of pseudoscience we're

808
00:33:22,519 --> 00:33:20,970
defending science and reason against the

809
00:33:24,350 --> 00:33:22,529
onslaught of medical and spiritual

810
00:33:26,389 --> 00:33:24,360
nonsense all week we are busy

811
00:33:29,090 --> 00:33:26,399
researching and debunking pseudoscience

812
00:33:30,950 --> 00:33:29,100
but on the seventh day we listened to

813
00:33:34,159 --> 00:33:30,960

the skeptic zone check us out at

814

00:33:44,129 --> 00:33:34,169

Monson's podcast libsyn com or search

815

00:33:48,940 --> 00:33:46,659

it's the first thursday of the month

816

00:33:51,999 --> 00:33:48,950

here in sydney first thursday remember

817

00:33:58,770 --> 00:33:52,009

and i'm at central train station making

818

00:34:03,600 --> 00:34:00,660

the pub for skeptics in the pub is

819

00:34:05,310 --> 00:34:03,610

located downtown Sydney not too far from

820

00:34:08,130 --> 00:34:05,320

central train station which is

821

00:34:11,909 --> 00:34:08,140

convenient and very close to museum

822

00:34:15,210 --> 00:34:11,919

train station a crown hotel the corner

823

00:34:16,950 --> 00:34:15,220

of Elizabeth and Goldman streets now

824

00:34:20,419 --> 00:34:16,960

skeptics in the pub starts at six

825

00:34:23,130 --> 00:34:20,429

o'clock and it's coming up to 5 30 now

826

00:34:24,890 --> 00:34:23,140

lots of office workers walking the other

827

00:34:28,649 --> 00:34:24,900

way towards central stations I walk

828

00:34:31,649 --> 00:34:28,659

towards the pub train one of the city's

829

00:34:35,970 --> 00:34:31,659

trains going by me he comes a tram it's

830

00:34:39,830 --> 00:34:35,980

all happening I think it's quite a good

831

00:34:42,750 --> 00:34:39,840

coincidence that the venue for the 2010

832

00:34:45,480 --> 00:34:42,760

skeptics convention which will be held

833

00:34:47,850 --> 00:34:45,490

from November the 26 to the 28 2010

834

00:34:50,310 --> 00:34:47,860

there's only one block away from the

835

00:34:54,600 --> 00:34:50,320

skeptics in the pub I think some of us

836

00:34:57,960 --> 00:34:54,610

may end up there well you know it I'm

837

00:35:00,120 --> 00:34:57,970

the first one here upstairs in the crown

838

00:35:03,960 --> 00:35:00,130

hotel is a lovely big room it says a

839

00:35:06,360 --> 00:35:03,970

restaurant normally and they the Crown

840

00:35:08,760 --> 00:35:06,370

Hotel basically given it to the skeptics

841

00:35:10,380 --> 00:35:08,770

for our use on the first thursday of the

842

00:35:14,250 --> 00:35:10,390

month because they know we bring in lots

843

00:35:15,630 --> 00:35:14,260

of people very wise and there are

844

00:35:17,700 --> 00:35:15,640

skeptics in the pub I'm here with

845

00:35:19,410 --> 00:35:17,710

William brew hi William hello how are

846

00:35:21,990 --> 00:35:19,420

you going I'm really well now you've

847

00:35:24,150 --> 00:35:22,000

interviewed me in the past time to get

848

00:35:26,040 --> 00:35:24,160

your revenge on me now big revenge time

849

00:35:27,870 --> 00:35:26,050

so you you've been having long

850

00:35:28,770 --> 00:35:27,880

description of now for two years or

851

00:35:31,080 --> 00:35:28,780

something like there would be at least

852

00:35:36,240 --> 00:35:31,090

around to you know we met originally on

853

00:35:38,070 --> 00:35:36,250

a in a extras waiting area for Telstra

854

00:35:40,110 --> 00:35:38,080

to Telstra and then we met again on home

855

00:35:42,390 --> 00:35:40,120

and away of all place yeah it's the only

856

00:35:44,250 --> 00:35:42,400

way you meet people is yes it is great

857

00:35:45,390 --> 00:35:44,260

but I remember when I met you and we

858

00:35:47,350 --> 00:35:45,400

were sitting around talking about

859

00:35:49,630 --> 00:35:47,360

astrology we were in a caravan

860

00:35:51,040 --> 00:35:49,640

caravan mouse astrology yeah and you

861

00:35:52,780 --> 00:35:51,050

were saying to these people as they were

862

00:35:55,750 --> 00:35:52,790

at their style signs do you actually

863

00:35:58,120 --> 00:35:55,760

think it's true that's when I suddenly

864

00:35:59,740 --> 00:35:58,130

woke up in a bit who is this guy yeah

865

00:36:01,930 --> 00:35:59,750

you explain where you were from yeah

866

00:36:04,990 --> 00:36:01,940

yeah that'll took off from there yeah um

867

00:36:06,010 --> 00:36:05,000

and you've been guessed as we say you've

868

00:36:08,230 --> 00:36:06,020

been coming here for two years now you

869

00:36:10,330 --> 00:36:08,240

are a bit of a known person you've been

870

00:36:12,190 --> 00:36:10,340

a roving reporter haven't you I have yes

871

00:36:14,890 --> 00:36:12,200

I did some work for cycle bad side kicks

872

00:36:16,240 --> 00:36:14,900

with uk-based site I'm based out here so

873

00:36:18,610 --> 00:36:16,250

I do a bit of stuff in Australia for

874

00:36:20,260 --> 00:36:18,620

them and it was through you that I

875

00:36:22,180 --> 00:36:20,270

actually want I discovered them first I

876

00:36:24,040 --> 00:36:22,190

discovered year I know that that the guy

877

00:36:25,780 --> 00:36:24,050

who runs the site you both know each

878

00:36:27,700 --> 00:36:25,790

other professionally yeah yeah yeah

879

00:36:29,470 --> 00:36:27,710

we're all linked in that way gone yes

880

00:36:31,330 --> 00:36:29,480

sir john donne is so we're all linked

881

00:36:32,890 --> 00:36:31,340

we're like three degrees of separation

882

00:36:35,230 --> 00:36:32,900

and we did something for you you

883

00:36:37,570 --> 00:36:35,240

supplied us with a reading unit yes a

884

00:36:39,820 --> 00:36:37,580

well-known so-called medium psychic from

885

00:36:42,310 --> 00:36:39,830

the UK can I mention her oh yeah sally

886

00:36:43,630 --> 00:36:42,320

morgan okay people over there will know

887

00:36:45,940 --> 00:36:43,640

immediately who she is she's got her own

888

00:36:48,760 --> 00:36:45,950

TV show I had a reading from her before

889

00:36:50,350 --> 00:36:48,770

she was well known and it's the only

890

00:36:52,930 --> 00:36:50,360

time I've seen a psychic that's in about

891

00:36:55,870 --> 00:36:52,940

12 13 and iPhone many more up lost a lot

892

00:36:58,420 --> 00:36:55,880

of money who made me question said she

893

00:36:59,650 --> 00:36:58,430

said certain things which rung true but

894

00:37:01,960 --> 00:36:59,660

you actually showed me the tricks of the

895

00:37:04,510 --> 00:37:01,970

trade it was reading bit of hot reading

896

00:37:07,420 --> 00:37:04,520

here in there and although I still have

897

00:37:08,590 --> 00:37:07,430

a couple of questions I still have not

898

00:37:10,210 --> 00:37:08,600

seen the evidence but there's only

899

00:37:11,980 --> 00:37:10,220

mediumship all psychics who actually

900

00:37:14,590 --> 00:37:11,990

have genuine skills it's interesting

901
00:37:18,180 --> 00:37:14,600
though you it really is a case of taking

902
00:37:21,010 --> 00:37:18,190
a reading and it's a long process but

903
00:37:23,200 --> 00:37:21,020
typing it out transcribing it and then

904
00:37:25,360 --> 00:37:23,210
going through it line by line to follow

905
00:37:28,120 --> 00:37:25,370
the logic and the threads and the

906
00:37:30,220 --> 00:37:28,130
answers and where it leads all the tell

907
00:37:32,200 --> 00:37:30,230
of a long press a big process but it's

908
00:37:34,030 --> 00:37:32,210
worthwhile in the end and assuming you

909
00:37:36,190 --> 00:37:34,040
can't do in two minutes after hearing a

910
00:37:37,690 --> 00:37:36,200
really can't you've actually got to

911
00:37:39,700 --> 00:37:37,700
listen to what the person's got to say

912
00:37:43,420 --> 00:37:39,710
got to us and say transcribe it you've

913
00:37:44,740 --> 00:37:43,430

got to then examine it analyzes and not

914

00:37:47,020 --> 00:37:44,750

going with the attitude that it's going

915

00:37:48,880 --> 00:37:47,030

to be fake sort of going objectively and

916

00:37:50,410 --> 00:37:48,890

then sieve does it make sense or does it

917

00:37:51,109 --> 00:37:50,420

not make sense and of course you showed

918

00:37:52,670 --> 00:37:51,119

me if it

919

00:37:54,650 --> 00:37:52,680

but definitely for most part anyway it

920

00:37:56,690 --> 00:37:54,660

didn't make sense yeah yeah and it also

921

00:37:59,599 --> 00:37:56,700

helps you realize how many questions

922

00:38:01,190 --> 00:37:59,609

were asked of you and not and all the

923

00:38:02,690 --> 00:38:01,200

rest of it and the other thing is I'm

924

00:38:04,400 --> 00:38:02,700

listening back to it because actually

925

00:38:06,710 --> 00:38:04,410

isn't battery most of what she said was

926
00:38:09,049 --> 00:38:06,720
totally wrong and even bits which could

927
00:38:11,420 --> 00:38:09,059
have been generalized somehow I linked

928
00:38:12,859 --> 00:38:11,430
it to being true yes closer for me it

929
00:38:15,289 --> 00:38:12,869
was true at the time but listening back

930
00:38:18,170 --> 00:38:15,299
you know I listened in back it also

931
00:38:19,759 --> 00:38:18,180
gives the opportunity to to remember

932
00:38:21,499 --> 00:38:19,769
things that you would naturally forget

933
00:38:23,989 --> 00:38:21,509
in a reading like things that didn't hit

934
00:38:25,789 --> 00:38:23,999
home so after a half hour reading you

935
00:38:27,410 --> 00:38:25,799
can remember I don't know a tenth of

936
00:38:29,509 --> 00:38:27,420
what was said because most of what was

937
00:38:30,799 --> 00:38:29,519
said was didn't and you've said it

938
00:38:32,779 --> 00:38:30,809

yourself and have a remainder of the

939

00:38:34,220 --> 00:38:32,789

hits but not the missus that's right and

940

00:38:35,599 --> 00:38:34,230

he said that many times yeah yeah that's

941

00:38:37,819 --> 00:38:35,609

something I always tell people and i'm

942

00:38:40,700 --> 00:38:37,829

amazed i've got a good circle of friends

943

00:38:42,499 --> 00:38:40,710

and most of them are believers one of

944

00:38:44,569 --> 00:38:42,509

them his mother's a so-called faith

945

00:38:47,299 --> 00:38:44,579

healer and so we're really good friends

946

00:38:48,620 --> 00:38:47,309

but we do clash yeah but even him I

947

00:38:50,390 --> 00:38:48,630

think it's getting through to him and I

948

00:38:51,980 --> 00:38:50,400

say things when I questioned him why do

949

00:38:53,329 --> 00:38:51,990

you think echinacea works what's it

950

00:38:56,120 --> 00:38:53,339

actually doing for you you know all

951
00:38:58,190 --> 00:38:56,130
these things and it's not about forcing

952
00:38:59,509 --> 00:38:58,200
your views on people it's about making

953
00:39:01,519 --> 00:38:59,519
them see that perhaps as another

954
00:39:03,710 --> 00:39:01,529
argument perhaps making them question

955
00:39:06,109 --> 00:39:03,720
their own beliefs yes it's never an easy

956
00:39:08,539 --> 00:39:06,119
thing to do you have to be very tactful

957
00:39:10,849 --> 00:39:08,549
sometimes and sometimes you can't I want

958
00:39:12,529 --> 00:39:10,859
to know you you temper gets the better

959
00:39:14,720 --> 00:39:12,539
here sometimes and you say look it's

960
00:39:16,400 --> 00:39:14,730
rubbish all right wait you can get very

961
00:39:18,499 --> 00:39:16,410
antagonistic I no longer bother telling

962
00:39:20,900 --> 00:39:18,509
people it's rubbish because yeah what

963
00:39:23,089 --> 00:39:20,910

they do is decide oh me I alienate them

964

00:39:24,170 --> 00:39:23,099

I get nowhere I Satan if you want to

965

00:39:25,880 --> 00:39:24,180

talk about it i'll talk about it with

966

00:39:27,140 --> 00:39:25,890

you but that's my view if you want to

967

00:39:28,819 --> 00:39:27,150

know my view i'll tell you in my view

968

00:39:30,739 --> 00:39:28,829

but if that's your view then that's

969

00:39:31,819 --> 00:39:30,749

great i do have the rest live every now

970

00:39:33,079 --> 00:39:31,829

and then suddenly there's a part of me

971

00:39:34,849 --> 00:39:33,089

just wants to say it and get it over

972

00:39:36,470 --> 00:39:34,859

with especially it's something like the

973

00:39:38,749 --> 00:39:36,480

mind-body-spirit festival where people

974

00:39:40,370 --> 00:39:38,759

are peddling utter rubbish you know i

975

00:39:42,380 --> 00:39:40,380

went to one Ainger asst that i went to

976
00:39:44,059 --> 00:39:42,390
one of them last year and you see these

977
00:39:45,620 --> 00:39:44,069
people who come across as all sweet and

978
00:39:47,690 --> 00:39:45,630
light in SE and I light and Ronnie

979
00:39:50,690 --> 00:39:47,700
really friendly as soon as you start

980
00:39:52,700 --> 00:39:50,700
questioning them their face changes that

981
00:39:55,079 --> 00:39:52,710
whole yellowing look yeah become really

982
00:39:56,999 --> 00:39:55,089
serious because they deviated from there

983
00:39:59,009 --> 00:39:57,009
and they're back in the defense has come

984
00:40:00,329 --> 00:39:59,019
up they did and they don't know how to

985
00:40:01,979 --> 00:40:00,339
answer and they want to get rid of and I

986
00:40:03,029 --> 00:40:01,989
notice when you gave them the hundred

987
00:40:04,469 --> 00:40:03,039
it's a hundred thousand dollars yeah

988
00:40:08,130 --> 00:40:04,479

hundred thousand dollars here rather

989

00:40:09,930 --> 00:40:08,140

than embrace it they walk away yeah that

990

00:40:11,579 --> 00:40:09,940

is found if I had something but I

991

00:40:13,140 --> 00:40:11,589

thought I could prove if you offered me

992

00:40:15,150 --> 00:40:13,150

a hundred thousand dollars hey I'll take

993

00:40:17,039 --> 00:40:15,160

it yeah say there's something which

994

00:40:19,259 --> 00:40:17,049

doesn't add up there it's all brats it

995

00:40:21,120 --> 00:40:19,269

does that up edge rapid optics played a

996

00:40:23,099 --> 00:40:21,130

real reason well the numerology it all

997

00:40:24,479 --> 00:40:23,109

adds up there is that when i first met

998

00:40:26,190 --> 00:40:24,489

you there also not not just talking

999

00:40:28,799 --> 00:40:26,200

about astrology but numerology as well

1000

00:40:30,239 --> 00:40:28,809

were they yeah doesn't add up to me but

1001
00:40:33,420 --> 00:40:30,249
you know that's one of the things about

1002
00:40:34,979 --> 00:40:33,430
it how can our listeners cease more of

1003
00:40:38,370 --> 00:40:34,989
your work or hear more of your reports

1004
00:40:40,650 --> 00:40:38,380
well they can see my work on ww bad

1005
00:40:45,749 --> 00:40:40,660
psychics calm on my own youtube channel

1006
00:40:47,729 --> 00:40:45,759
which is ww youtube com / kensington 25

1007
00:40:49,859 --> 00:40:47,739
kensington 25 that's right you do a lot

1008
00:40:51,180 --> 00:40:49,869
of video reports i do you from all

1009
00:40:52,979 --> 00:40:51,190
around the world more round of the world

1010
00:40:54,900 --> 00:40:52,989
interviews most of them here in

1011
00:40:57,390 --> 00:40:54,910
australia yes stuff from America from

1012
00:40:58,769 --> 00:40:57,400
the UK from Europe Asia jus do check it

1013
00:41:01,109 --> 00:40:58,779

out and also check that psychics out

1014

00:41:03,359 --> 00:41:01,119

that was the site which introduced me to

1015

00:41:05,609 --> 00:41:03,369

skepticism and through them I found out

1016

00:41:17,069 --> 00:41:05,619

about you excellent so good to see

1017

00:41:23,829 --> 00:41:20,949

the sky was velvet black with diamond

1018

00:41:26,140 --> 00:41:23,839

stars in the night and the sparkled

1019

00:41:28,539 --> 00:41:26,150

starlight fell like a gentle rain of

1020

00:41:31,479 --> 00:41:28,549

light be sprinkling the earth in a

1021

00:41:34,380 --> 00:41:31,489

shimmering silver cloak falling on the

1022

00:41:37,630 --> 00:41:34,390

campsite and be dazzling the city folk

1023

00:41:40,269 --> 00:41:37,640

dry desert air died the campfire in

1024

00:41:42,849 --> 00:41:40,279

glowing embers and the storyteller told

1025

00:41:44,739 --> 00:41:42,859

a tale which only he remembers of a

1026

00:41:47,650 --> 00:41:44,749

night he saw the minmin light deep

1027

00:41:51,059 --> 00:41:47,660

within the dark on a distant desert clay

1028

00:41:53,620 --> 00:41:51,069

pan in an earth scape cold and stark

1029

00:41:56,529 --> 00:41:53,630

smiling twinkle lights laughing in the

1030

00:41:58,959 --> 00:41:56,539

cool crisp air and moving like men where

1031

00:42:01,390 --> 00:41:58,969

he knew none were there just blinking in

1032

00:42:04,029 --> 00:42:01,400

the distance moving closer as he stared

1033

00:42:07,209 --> 00:42:04,039

but he didn't move a muscle and was

1034

00:42:09,729 --> 00:42:07,219

quite unprepared the minmin took on

1035

00:42:12,339 --> 00:42:09,739

human form and entered his domain he

1036

00:42:14,559 --> 00:42:12,349

thought his mind was playing tricks deep

1037

00:42:18,159 --> 00:42:14,569

inside his brain and he rubbed his eyes

1038

00:42:20,259 --> 00:42:18,169

and tried in vain to clear his mind but

1039

00:42:23,499 --> 00:42:20,269

men men were around him and his fear was

1040

00:42:25,959 --> 00:42:23,509

left behind they took him starlight

1041

00:42:28,659 --> 00:42:25,969

strolling across their astral plane and

1042

00:42:31,419 --> 00:42:28,669

showed him in minn secrets of secret min

1043

00:42:34,779 --> 00:42:31,429

min pain unknown trials of tribal

1044

00:42:37,479 --> 00:42:34,789

nations for thousands of years and then

1045

00:42:39,849 --> 00:42:37,489

the storyteller stopped and had to dry

1046

00:42:42,219 --> 00:42:39,859

his tears memories of the light and the

1047

00:42:44,380 --> 00:42:42,229

night he learnt their tail came back to

1048

00:42:47,169 --> 00:42:44,390

flood emotion as a motion would prevail

1049

00:42:49,899 --> 00:42:47,179

when he told this lost tale from a long

1050

00:42:53,250 --> 00:42:49,909

time in history and he filled all the

1051

00:42:55,290 --> 00:42:53,260

city folk with question and mystery

1052

00:42:58,080 --> 00:42:55,300

then the merest missed appeared at the

1053

00:43:00,240 --> 00:42:58,090

city campus site would this be a sacred

1054

00:43:03,300 --> 00:43:00,250

visit from the gods min min light and

1055

00:43:06,270 --> 00:43:03,310

the storyteller slowly stood and pointed

1056

00:43:09,600 --> 00:43:06,280

for he knew the min min men were coming

1057

00:43:12,150 --> 00:43:09,610

as the light came into view like the

1058

00:43:14,070 --> 00:43:12,160

softer stars on horseback riding across

1059

00:43:16,440 --> 00:43:14,080

the flat they were getting ever closer

1060

00:43:19,170 --> 00:43:16,450

to where the campers SAT and the city

1061

00:43:22,590 --> 00:43:19,180

slickers paled blood drained from their

1062

00:43:26,190 --> 00:43:22,600

faces as the min min lights arrived and

1063

00:43:28,590 --> 00:43:26,200

absorbed all their traces all the city

1064

00:43:31,230 --> 00:43:28,600

people vanished but not the mid moon man

1065

00:43:33,750 --> 00:43:31,240

he was left to tell the min min tale the

1066

00:43:36,000 --> 00:43:33,760

best way that he can by taking city

1067

00:43:38,820 --> 00:43:36,010

visitors to those Outback points he

1068

00:43:56,560 --> 00:43:38,830

knows to turn them into min min lights

1069

00:44:02,260 --> 00:44:00,340

and now come back with this 21 years to

1070

00:44:06,300 --> 00:44:02,270

the Australian skeptics national

1071

00:44:17,690 --> 00:44:06,310

convention in 1988 his Peter Bealls

1072

00:44:21,440 --> 00:44:19,340

I won't give you very long but the first

1073

00:44:23,750 --> 00:44:21,450

speaker for this session is Peter Bealls

1074

00:44:32,150 --> 00:44:23,760

to the computer programmer and he'll be

1075

00:44:34,700 --> 00:44:32,160

giving you an overview of the new age in

1076

00:44:37,880 --> 00:44:34,710

the next 20 minutes or so probably more

1077

00:44:41,750 --> 00:44:37,890

like 15 I'll attempt to outline some of

1078

00:44:45,620 --> 00:44:41,760

the phenomena of the new age what is the

1079

00:44:51,340 --> 00:44:45,630

new age good question it's not an easy

1080

00:44:56,450 --> 00:44:51,350

one to answer when did the new age begin

1081

00:44:58,220 --> 00:44:56,460

did it begin with the Age of Aquarius or

1082

00:45:01,010 --> 00:44:58,230

did it begin with the harmonic

1083

00:45:06,160 --> 00:45:01,020

convergence of August 16 and 17 last

1084

00:45:11,330 --> 00:45:06,170

year well in the magazine Maggie's Farm

1085

00:45:13,640 --> 00:45:11,340

issue number 36 on page 27 it says that

1086

00:45:18,970 --> 00:45:13,650

the New Age began with the splitting of

1087

00:45:24,130 --> 00:45:18,980

the atom it all depends on who you ask

1088

00:45:29,420 --> 00:45:24,140

the new age is a collective conscious

1089

00:45:32,000 --> 00:45:29,430

hoping for a rosy future a change from

1090

00:45:36,400 --> 00:45:32,010

the modern world of war mongering and

1091

00:45:40,820 --> 00:45:36,410

planet-destroying science new age new

1092

00:45:45,830 --> 00:45:40,830

ages believe in a human link up to

1093

00:45:50,780 --> 00:45:45,840

change the world for the better common

1094

00:45:54,110 --> 00:45:50,790

themes in New Age magazines are a great

1095

00:45:58,720 --> 00:45:54,120

concern for wellbeing of the earth and

1096

00:46:04,150 --> 00:45:58,730

all life meditation crystal power

1097

00:46:07,450 --> 00:46:04,160

crystal healing natural healing

1098

00:46:11,980 --> 00:46:07,460

channeling or spiritualism if you like

1099

00:46:16,000 --> 00:46:11,990

world peace communal lifestyles

1100

00:46:22,030 --> 00:46:16,010

alternative energy alternative medicine

1101
00:46:24,860 --> 00:46:22,040
Human Rights UFOs pyramid ology

1102
00:46:27,650 --> 00:46:24,870
radionics all sorts of stuff obviously

1103
00:46:29,390 --> 00:46:27,660
in the time allowed I can't possibly

1104
00:46:31,140 --> 00:46:29,400
speak on all these topics so I've

1105
00:46:34,530 --> 00:46:31,150
selected just a few

1106
00:46:37,110 --> 00:46:34,540
believers in the New Age philosophy also

1107
00:46:40,980 --> 00:46:37,120
attempt to look into the future in a

1108
00:46:45,420 --> 00:46:40,990
variety of ways some of the methods used

1109
00:46:47,690 --> 00:46:45,430
are thousands of years old which makes

1110
00:46:52,110 --> 00:46:47,700
me wonder just how new the new age

1111
00:46:54,600 --> 00:46:52,120
really is this question will be explored

1112
00:46:57,380 --> 00:46:54,610
further in a debate this afternoon

1113
00:47:01,020 --> 00:46:57,390

between the skeptics and the Mystics

1114

00:47:05,960 --> 00:47:01,030

topic being that the new age is old

1115

00:47:12,720 --> 00:47:10,050

take astrology for example astrology

1116

00:47:15,930 --> 00:47:12,730

according to my dictionary is the study

1117

00:47:19,830 --> 00:47:15,940

of motions and relative positions of the

1118

00:47:22,310 --> 00:47:19,840

planets Sun and Moon interpreted in

1119

00:47:27,030 --> 00:47:22,320

terms of human characteristics and

1120

00:47:28,980 --> 00:47:27,040

activities in other words astrologists

1121

00:47:31,560 --> 00:47:28,990

believe there's some sort of

1122

00:47:35,820 --> 00:47:31,570

relationship between where the planets

1123

00:47:40,890 --> 00:47:35,830

Sun and Moon are and human personalities

1124

00:47:44,160 --> 00:47:40,900

and behavior astrologers claim that

1125

00:47:46,380 --> 00:47:44,170

specific geometric angles and points of

1126
00:47:49,620 --> 00:47:46,390
mutual contact formed by the planets as

1127
00:47:53,100 --> 00:47:49,630
they orbit the Sun present continually

1128
00:47:55,560 --> 00:47:53,110
changing patterns which correspond to

1129
00:47:59,910 --> 00:47:55,570
unique patterns of potential behavior in

1130
00:48:03,720 --> 00:47:59,920
human beings some astrologers believe

1131
00:48:07,110 --> 00:48:03,730
that this correlation is not causal but

1132
00:48:10,130 --> 00:48:07,120
coincidental and others believe the

1133
00:48:12,690 --> 00:48:10,140
opposite it all depends on who you ask

1134
00:48:17,640 --> 00:48:12,700
whether you happen to be a paying client

1135
00:48:20,370 --> 00:48:17,650
or not astrology is based on a

1136
00:48:24,000 --> 00:48:20,380
geocentric universe that is with the

1137
00:48:25,980 --> 00:48:24,010
earth in the middle now since the 16th

1138
00:48:28,230 --> 00:48:25,990

century most of us have come to accept

1139

00:48:31,860 --> 00:48:28,240

the idea that the earth in fact orbits

1140

00:48:34,350 --> 00:48:31,870

the Sun not the other way around until

1141

00:48:39,060 --> 00:48:34,360

this was discovered astrology and

1142

00:48:41,310 --> 00:48:39,070

astronomy were inseparable sometimes I

1143

00:48:42,420 --> 00:48:41,320

think many people still don't know the

1144

00:48:44,579 --> 00:48:42,430

difference

1145

00:48:47,760 --> 00:48:44,589

next time you walk into a large news

1146

00:48:50,730 --> 00:48:47,770

agency see whether the scientific

1147

00:48:56,040 --> 00:48:50,740

astronomy magazines are alongside the

1148

00:48:58,020 --> 00:48:56,050

mystical astrological ones the success

1149

00:49:00,420 --> 00:48:58,030

of astrological character analysis

1150

00:49:04,710 --> 00:49:00,430

claimed by believers is universal

1151

00:49:08,910 --> 00:49:04,720

validation you hear them say I don't

1152

00:49:12,450 --> 00:49:08,920

know how it works it just works the

1153

00:49:15,599 --> 00:49:12,460

terms used by astrologers a vague and of

1154

00:49:20,910 --> 00:49:15,609

a general nature so as to fit anyone who

1155

00:49:25,309 --> 00:49:20,920

wishes them to do so if your

1156

00:49:28,319 --> 00:49:25,319

astrological chart forecasts sickness

1157

00:49:32,099 --> 00:49:28,329

perhaps you could enlist the help of

1158

00:49:35,549 --> 00:49:32,109

crystal power like the sale of most New

1159

00:49:39,120 --> 00:49:35,559

Age paraphernalia crystals are big

1160

00:49:43,890 --> 00:49:39,130

business many people believe that quartz

1161

00:49:46,200 --> 00:49:43,900

crystals possess special powers quartz

1162

00:49:51,319 --> 00:49:46,210

crystals are the latest trend in the

1163

00:49:54,359 --> 00:49:51,329

fashionable new-age world new ages claim

1164

00:49:58,260 --> 00:49:54,369

that quartz crystals have the ability to

1165

00:50:03,289 --> 00:49:58,270

heal for example clear quartz is

1166

00:50:06,180 --> 00:50:03,299

supposedly the overall body energizer

1167

00:50:08,130 --> 00:50:06,190

smoky quartz is very good for grounding

1168

00:50:12,450 --> 00:50:08,140

you into your body whatever the hell

1169

00:50:16,680 --> 00:50:12,460

that means i don't own green quartz

1170

00:50:19,410 --> 00:50:16,690

interacts with the endocrine glands pink

1171

00:50:23,940 --> 00:50:19,420

rose quartz and citron quartz work on

1172

00:50:26,940 --> 00:50:23,950

the emotional body it's claimed that

1173

00:50:30,120 --> 00:50:26,950

crystals interact with a series of

1174

00:50:34,530 --> 00:50:30,130

energy systems connecting the mind the

1175

00:50:37,710 --> 00:50:34,540

emotions and the body the energy

1176
00:50:43,710 --> 00:50:37,720
supposedly flows into the left hand and

1177
00:50:48,180 --> 00:50:43,720
out of the right so to cure a pain

1178
00:50:51,520 --> 00:50:48,190
you hold your crystal in your left hand

1179
00:50:57,990 --> 00:50:51,530
and place your right hand on the painful

1180
00:51:05,460 --> 00:51:01,870
the energy flowing in your left hand is

1181
00:51:13,380 --> 00:51:05,470
focused and amplified by the crystal

1182
00:51:22,260 --> 00:51:16,470
ha

1183
00:51:25,980 --> 00:51:22,270
blocks the flow of energy to the body

1184
00:51:28,980 --> 00:51:25,990
cells the organs begin to die and you

1185
00:51:32,000 --> 00:51:28,990
become sick and when energy is brought

1186
00:51:34,890 --> 00:51:32,010
back to the area new cells will form

1187
00:51:39,720 --> 00:51:34,900
rebuild the organs and you will become

1188
00:51:43,980 --> 00:51:39,730

well now this method doesn't work for

1189

00:51:48,900 --> 00:51:43,990

headaches Barry because the problem with

1190

00:51:52,830 --> 00:51:48,910

headaches is that is there's too much

1191

00:51:56,820 --> 00:51:52,840

energy in your head or in Tim's head not

1192

00:52:00,330 --> 00:51:56,830

not the according to the crystal

1193

00:52:03,570 --> 00:52:00,340

believers there's energy flowing in and

1194

00:52:07,440 --> 00:52:03,580

out of your head all the time and if

1195

00:52:11,160 --> 00:52:07,450

there's something usually emotional the

1196

00:52:16,070 --> 00:52:11,170

cut yeah usually emotional blogging that

1197

00:52:18,630 --> 00:52:16,080

exit then the pressure builds up and

1198

00:52:24,030 --> 00:52:18,640

this causes the cells to signal the

1199

00:52:27,480 --> 00:52:24,040

brain with pain so this time you place a

1200

00:52:32,240 --> 00:52:27,490

crystal in your right hand remember the

1201
00:52:40,440 --> 00:52:36,720
place your left hand on your head in the

1202
00:52:45,330 --> 00:52:40,450
right hand holding the crystal solar

1203
00:52:48,930 --> 00:52:45,340
plexus and then using the drawing

1204
00:52:52,250 --> 00:52:48,940
ability of the left hand you suck the

1205
00:52:56,520 --> 00:52:52,260
energy out of your headache and

1206
00:52:58,349 --> 00:52:56,530
magically and mystically it comes out of

1207
00:53:00,900 --> 00:52:58,359
my right hand and is focused by the

1208
00:53:02,760 --> 00:53:00,910
crystal into the solar plexus where the

1209
00:53:07,830 --> 00:53:02,770
energy can be redistributed throughout

1210
00:53:09,560 --> 00:53:07,840
the body end of headache wireless if you

1211
00:53:12,049 --> 00:53:09,570
believe that you'll buy my watch

1212
00:53:15,170 --> 00:53:12,059
actually

1213
00:53:18,079 --> 00:53:15,180

the only property that a crystal has

1214

00:53:22,329 --> 00:53:18,089

that is of any use to civilization is

1215

00:53:26,660 --> 00:53:22,339

the piezoelectric effect which is a bid

1216

00:53:29,329 --> 00:53:26,670

which my dictionary defines as the

1217

00:53:32,179 --> 00:53:29,339

production of electricity or electric

1218

00:53:34,849 --> 00:53:32,189

polarity applied sorry by applying a

1219

00:53:38,059 --> 00:53:34,859

mechanical stress to certain crystals or

1220

00:53:41,150 --> 00:53:38,069

the converse effect in which stress is

1221

00:53:44,410 --> 00:53:41,160

produced in a crystal as a result of an

1222

00:53:47,449 --> 00:53:44,420

applied potential difference or voltage

1223

00:53:49,789 --> 00:53:47,459

perhaps the new ages attribute the

1224

00:53:52,999 --> 00:53:49,799

so-called mystical properties of quartz

1225

00:53:56,299 --> 00:53:53,009

to this effect but other than the

1226
00:53:58,640 --> 00:53:56,309
piezoelectric effect there are no other

1227
00:54:02,630 --> 00:53:58,650
energies known to science that can be

1228
00:54:04,849 --> 00:54:02,640
directly associated with quartz in a

1229
00:54:06,469 --> 00:54:04,859
talk later on this morning dr. David

1230
00:54:08,929 --> 00:54:06,479
wheeler a physicist who has studied

1231
00:54:13,640 --> 00:54:08,939
quartz crystals will explore this topic

1232
00:54:16,189 --> 00:54:13,650
further any experiments carried out

1233
00:54:17,989 --> 00:54:16,199
under controlled conditions have shown

1234
00:54:24,160 --> 00:54:17,999
the healing powers attributed to

1235
00:54:31,370 --> 00:54:27,400
another of the latest New Age feds is

1236
00:54:33,739 --> 00:54:31,380
spiritualism or channeling now I'll only

1237
00:54:35,870 --> 00:54:33,749
touch on this subject briefly as it will

1238
00:54:38,239 --> 00:54:35,880

be dealt with in some detail by a

1239

00:54:43,329 --> 00:54:38,249

subsequent speaker the Australian

1240

00:54:50,380 --> 00:54:46,549

spiritualism or channeling is the belief

1241

00:54:53,599 --> 00:54:50,390

that the disembodied spirits of the Dead

1242

00:54:55,819 --> 00:54:53,609

surviving in another world can

1243

00:54:59,630 --> 00:54:55,829

communicate with the living in this

1244

00:55:04,189 --> 00:54:59,640

world especially through mediums or as

1245

00:55:07,249 --> 00:55:04,199

they're also now known channels the

1246

00:55:12,079 --> 00:55:07,259

mediums or channels supposedly go into a

1247

00:55:14,719 --> 00:55:12,089

trance speak in an altered voice what

1248

00:55:17,449 --> 00:55:14,729

they say varies from world-shattering

1249

00:55:20,269 --> 00:55:17,459

predictions too simplistic philosophies

1250

00:55:22,969 --> 00:55:20,279

which are made to sound profound by the

1251

00:55:24,470 --> 00:55:22,979

use of jargon a claim that the

1252

00:55:28,730 --> 00:55:24,480

revelations come from the spear

1253

00:55:31,660 --> 00:55:28,740

world or super intelligences despite the

1254

00:55:34,190 --> 00:55:31,670

fact that if there is any information

1255

00:55:37,490 --> 00:55:34,200

it's either always available from a

1256

00:55:39,440 --> 00:55:37,500

variety of earthly sources or the

1257

00:55:42,950 --> 00:55:39,450

revelations are purely subjective or

1258

00:55:49,150 --> 00:55:42,960

religion like let me give you an example

1259

00:55:55,490 --> 00:55:52,310

the earth is in the throes of great

1260

00:55:58,970 --> 00:55:55,500

change the power will be more some than

1261

00:56:02,300 --> 00:55:58,980

we have ever known where there is dense

1262

00:56:06,020 --> 00:56:02,310

population nature will become very

1263

00:56:09,140 --> 00:56:06,030

active there will be a radical increase

1264

00:56:12,530 --> 00:56:09,150

in activity strong and wondrous things

1265

00:56:16,990 --> 00:56:12,540

will awaken us there will be a warming

1266

00:56:21,190 --> 00:56:17,000

up of the whole earth crops will fail

1267

00:56:24,349 --> 00:56:21,200

deserts will be inundated with rainfall

1268

00:56:29,510 --> 00:56:24,359

in the next four years everything will

1269

00:56:31,160 --> 00:56:29,520

happen much quicker there'll be this is

1270

00:56:34,700 --> 00:56:31,170

good there will be a melting of the ice

1271

00:56:38,450 --> 00:56:34,710

caps in the next four years the scene

1272

00:56:41,630 --> 00:56:38,460

will rise 200 feet in four years crops

1273

00:56:46,390 --> 00:56:41,640

on an international scale will fail it

1274

00:56:51,800 --> 00:56:46,400

will be perilous indeed blah blah blah

1275

00:56:54,980 --> 00:56:51,810

now to hear these pearls of wisdom from

1276

00:56:58,990 --> 00:56:54,990

jay-z nidal from Rampur if you like you

1277

00:57:02,359 --> 00:56:59,000

would have had to fork out 395 dollars

1278

00:57:06,290 --> 00:57:02,369

registration fee for a recent rampur

1279

00:57:08,120 --> 00:57:06,300

visit to Sydney for the same amount of

1280

00:57:10,970 --> 00:57:08,130

money you could get the facts in the

1281

00:57:14,599 --> 00:57:10,980

truth by subscribing to the skeptic for

1282

00:57:15,740 --> 00:57:14,609

over a quarter of a century you can read

1283

00:57:17,930 --> 00:57:15,750

more about ran through in the latest

1284

00:57:24,270 --> 00:57:17,940

issue of the skeptic it's on sale of the

1285

00:57:35,380 --> 00:57:30,160

okay pyramid power pyramids aren't all

1286

00:57:37,930 --> 00:57:35,390

that fashionable now but it's claimed

1287

00:57:41,350 --> 00:57:37,940

that pyramid our energy or pyramid power

1288

00:57:45,940 --> 00:57:41,360

can charge water sharpen your razor

1289

00:57:50,770 --> 00:57:45,950

blades and stimulate plant growth we

1290

00:57:53,260 --> 00:57:50,780

just quote from Carl Sagan pyramid ology

1291

00:57:56,470 --> 00:57:53,270

is the contention that we and our razor

1292

00:57:59,020 --> 00:57:56,480

blades feel better and last longer

1293

00:58:03,910 --> 00:57:59,030

inside pyramids than we and they do

1294

00:58:06,220 --> 00:58:03,920

inside cubes the contentions of pyramid

1295

00:58:09,490 --> 00:58:06,230

og under appropriately controlled

1296

00:58:14,200 --> 00:58:09,500

conditions have never been verified the

1297

00:58:16,960 --> 00:58:14,210

burden of proof has not been met like

1298

00:58:20,860 --> 00:58:16,970

crystal power and the claims of all New

1299

00:58:25,420 --> 00:58:20,870

Age belief systems pyramid power is yet

1300

00:58:29,280 --> 00:58:25,430

to be proven in fact I've heard from a

1301
00:58:33,700 --> 00:58:29,290
very reliable source that pyramid power

1302
00:58:37,780 --> 00:58:33,710
was invented by Martin Gardner under a

1303
00:58:41,680 --> 00:58:37,790
pseudonym in the 60s as a hoax and has

1304
00:58:49,420 --> 00:58:41,690
since gotten way out of hand reliable

1305
00:58:51,609 --> 00:58:49,430
source on the inside cover

1306
00:58:55,089 --> 00:58:51,619
of a New Age magazine and I have just

1307
00:59:03,280 --> 00:58:55,099
over here I discovered a flat pyramid

1308
00:59:08,230 --> 00:59:03,290
grid this is a grid it's hard to see I

1309
00:59:10,120 --> 00:59:08,240
know but it's for pyramids for flat

1310
00:59:13,480 --> 00:59:10,130
pyramids down here and five across the

1311
00:59:16,510 --> 00:59:13,490
top making a block of 20 and it says

1312
00:59:19,839 --> 00:59:16,520
here here is another little Marvel from

1313
00:59:22,690 --> 00:59:19,849

borderland science in California it's a

1314

00:59:25,530 --> 00:59:22,700

flat pyramid grid the history of this

1315

00:59:30,280 --> 00:59:25,540

strange diagram is shrouded in mystery

1316

00:59:35,109 --> 00:59:30,290

I'll bet it's not known exactly when or

1317

00:59:38,230 --> 00:59:35,119

who first discovered that use Great

1318

00:59:41,530 --> 00:59:38,240

Pyramid ratios in this concentric

1319

00:59:46,839 --> 00:59:41,540

squares diagram focus the same natural

1320

00:59:48,609 --> 00:59:46,849

energy as a pyramid ie none the grid can

1321

00:59:51,280 --> 00:59:48,619

be used like any other pyramid to charge

1322

00:59:54,099 --> 00:59:51,290

water stimulate plants sharp and razor

1323

00:59:59,530 --> 00:59:54,109

blades and all the uses of pyramid

1324

01:00:02,230 --> 00:59:59,540

energy there's a claim here that some of

1325

01:00:05,289 --> 01:00:02,240

the crew on a magazine have shaved with

1326

01:00:10,420 --> 01:00:05,299

the same razor blade for six weeks I've

1327

01:00:12,880 --> 01:00:10,430

got an electric razor too okay in

1328

01:00:16,900 --> 01:00:12,890

conclusion I've touched on a few

1329

01:00:19,660 --> 01:00:16,910

specific areas of the new age as I said

1330

01:00:23,400 --> 01:00:19,670

in the beginning it's very hard to

1331

01:00:26,109 --> 01:00:23,410

answer the question what is the new age

1332

01:00:30,250 --> 01:00:26,119

maybe at some time in the future there

1333

01:00:34,539 --> 01:00:30,260

will be a new new age perhaps its motto

1334

01:00:38,829 --> 01:00:34,549

will be if a man wishes to educate

1335

01:00:58,549 --> 01:00:38,839

himself he must first doubt foreign

1336

01:01:03,719 --> 01:01:01,620

this is desiree shell hosted skeptically

1337

01:01:06,209 --> 01:01:03,729

speaking check out our website at

1338

01:01:10,109 --> 01:01:06,219

skeptically speaking calm and listen to

1339

01:01:13,859 --> 01:01:10,119

us live on CJ sr 88.5 FM in Edmonton

1340

01:01:25,480 --> 01:01:13,869

Alberta Canada I now return you to the

1341

01:01:30,560 --> 01:01:28,730

melbourne cup day amanda it's all

1342

01:01:31,880 --> 01:01:30,570

happening here we're at our favorite

1343

01:01:33,710 --> 01:01:31,890

club down the street where we normally

1344

01:01:36,350 --> 01:01:33,720

do the the think tank from and it's

1345

01:01:39,440 --> 01:01:36,360

absolutely jam-packed today with people

1346

01:01:42,500 --> 01:01:39,450

here to bet on a horse race you say you

1347

01:01:44,900 --> 01:01:42,510

say it like it's something weird it is a

1348

01:01:46,640 --> 01:01:44,910

bit strange now I've put a couple of

1349

01:01:48,080 --> 01:01:46,650

dollars on the two favorites probably a

1350

01:01:50,690 --> 01:01:48,090

silly thing to do who have you gone for

1351

01:01:53,900 --> 01:01:50,700

I have put a neat way on Ella's wonder

1352

01:01:56,840 --> 01:01:53,910

after my first choice was scratched oh

1353

01:01:59,300 --> 01:01:56,850

yeah all right well this is an

1354

01:02:01,010 --> 01:01:59,310

interesting situation because people

1355

01:02:04,670 --> 01:02:01,020

have normally done bet on horses and

1356

01:02:08,570 --> 01:02:04,680

things like myself and me and you do so

1357

01:02:10,850 --> 01:02:08,580

on a Melbourne company that's just

1358

01:02:13,700 --> 01:02:10,860

tradition I guess yeah well i always bet

1359

01:02:16,070 --> 01:02:13,710

based on the name basically and in you

1360

01:02:19,220 --> 01:02:16,080

know whatever ten years of bed in most

1361

01:02:21,470 --> 01:02:19,230

years I've come out very far ahead which

1362

01:02:25,310 --> 01:02:21,480

is that strategy really because you only

1363

01:02:28,430 --> 01:02:25,320

need you know one or two bits that come

1364

01:02:31,340 --> 01:02:28,440

off to put you ahead over a few years so

1365

01:02:32,960 --> 01:02:31,350

that's my foolproof strategy it's a much

1366

01:02:33,780 --> 01:02:32,970

better strategy I think then using

1367

01:02:37,410 --> 01:02:33,790

remote viewing

1368

01:02:38,850 --> 01:02:37,420

yes as we saw last night Simon Turnbull

1369

01:02:41,940 --> 01:02:38,860

the president of the Australian psychic

1370

01:02:43,710 --> 01:02:41,950

psyche of the year 24 2004 was on the TV

1371

01:02:45,240 --> 01:02:43,720

the other night at the racetrack using

1372

01:02:46,740 --> 01:02:45,250

remote viewing to pick the winners in

1373

01:02:48,540 --> 01:02:46,750

what do you lose 500 thousand two

1374

01:02:52,110 --> 01:02:48,550

hundred and fifty are too close yeah

1375

01:02:54,870 --> 01:02:52,120

once again you know there are there too

1376

01:02:57,780 --> 01:02:54,880

serious about their craft to take

1377

01:03:01,890 --> 01:02:57,790

Randy's million dollars yeah offer them

1378

01:03:03,900 --> 01:03:01,900

some gimmick TV show and they'll add it

1379

01:03:06,450 --> 01:03:03,910

like a shot cause he had an excuse me

1380

01:03:08,420 --> 01:03:06,460

that he didn't concentrate a novel I who

1381

01:03:11,610 --> 01:03:08,430

knows right but and in the end of day

1382

01:03:14,460 --> 01:03:11,620

the professional handicapper the

1383

01:03:16,980 --> 01:03:14,470

professional vector didn't actually come

1384

01:03:18,900 --> 01:03:16,990

out much better I'd the one who did he

1385

01:03:20,940 --> 01:03:18,910

came up streets and was like you just

1386

01:03:25,410 --> 01:03:20,950

meeting old names I don't think she's

1387

01:03:26,970 --> 01:03:25,420

very likely actually not oh well we've

1388

01:03:27,900 --> 01:03:26,980

got half an hour until race time so

1389

01:03:33,590 --> 01:03:27,910

we'll have a couple of glasses of

1390

01:03:38,460 --> 01:03:36,540

horses up getting into the barriers now

1391

01:03:40,890 --> 01:03:38,470

what's the big race two people are

1392

01:03:41,850 --> 01:03:40,900

gathered around up many monitors acum

1393

01:03:44,610 --> 01:03:41,860

the people who are in the next room

1394

01:03:46,470 --> 01:03:44,620

playing poker machines

1395

01:03:48,780 --> 01:03:46,480

I didn't think they'd care yeah we're

1396

01:03:51,030 --> 01:03:48,790

both losing our money but I've months in

1397

01:03:53,460 --> 01:03:51,040

a more interesting way I bet on the

1398

01:03:56,840 --> 01:03:53,470

favorites that's why I mean me and the

1399

01:03:59,880 --> 01:03:56,850

people in the pokey all the focus yes

1400

01:04:02,640 --> 01:03:59,890

horses are being led in now can't be too

1401

01:04:04,860 --> 01:04:02,650

long it was very exciting I can't

1402

01:04:08,820 --> 01:04:04,870

believe how exciting is it there are

1403

01:04:13,809 --> 01:04:08,830

balloons and little cutout horses and

1404

01:04:18,309 --> 01:04:15,880

lost horses being led into the barrier

1405

01:04:18,319 --> 01:04:22,499

the jockeys a little on each other off

1406

01:04:29,140 --> 01:04:26,650

crowd the anticipations growing balloons

1407

01:04:54,089 --> 01:04:29,150

are flying we get an aerial view of the

1408

01:04:54,099 --> 01:04:57,920

shocking shocking

1409

01:05:05,870 --> 01:05:02,780

when my horses came nowhere anything

1410

01:05:16,380 --> 01:05:10,690

the message is clear that long

1411

01:05:16,390 --> 01:05:29,600

\$20

1412

01:05:34,290 --> 01:05:32,250

thank you very much for listening to the

1413

01:05:36,360 --> 01:05:34,300

skeptic zone and continuing to listen to

1414

01:05:38,580 --> 01:05:36,370

the skeptic zone and thank you to those

1415

01:05:41,910 --> 01:05:38,590

people who are now subscribing to the

1416

01:05:44,550 --> 01:05:41,920

skeptic zone every little bit helps well

1417

01:05:46,860 --> 01:05:44,560

wish me luck everybody tomorrow Saturday

1418

01:05:48,900 --> 01:05:46,870

in Sydney I'm going to visit the

1419

01:05:50,910 --> 01:05:48,910

mind-body wallet festival down at

1420

01:05:52,800 --> 01:05:50,920

darling harbour will I lose my temper

1421

01:05:56,070 --> 01:05:52,810

will I tell people what to do with

1422

01:05:58,710 --> 01:05:56,080

themselves will I be polite stand by

1423

01:06:01,170 --> 01:05:58,720

next week for the report on mind-body

1424

01:06:03,180 --> 01:06:01,180

wallet until then this is Richard

1425

01:06:08,460 --> 01:06:03,190

Saunders signing off from Sydney

1426

01:06:12,150 --> 01:06:08,470

Australia you've been listening to the

1427

01:06:15,990 --> 01:06:12,160

skeptic zone visit our website at www

1428

01:06:19,450 --> 01:06:16,000

skeptics on TV the comments contacts and

1429

01:06:22,410 --> 01:06:19,460

extra video reports