

**The Skeptic Zone
Show 127
25 March 2011**



1
00:00:22,720 --> 00:00:09,080
welcome to the skeptic zone the podcast

2
00:00:31,460 --> 00:00:26,440
yes it's the skeptic Zone episode number

3
00:00:32,900 --> 00:00:31,470
127 or the 25th of March 2011 Richard

4
00:00:36,200 --> 00:00:32,910
Saunders here with you from Sydney

5
00:00:37,900 --> 00:00:36,210
Australia what a mixed bag an eclectic

6
00:00:39,799 --> 00:00:37,910
mix we have for you on today's show

7
00:00:42,110 --> 00:00:39,809
we're going to kick off with an

8
00:00:44,840 --> 00:00:42,120
interview that our good friend and us

9
00:00:46,760 --> 00:00:44,850
correspondent Travis Roy conducted with

10
00:00:49,729 --> 00:00:46,770
Mark mervine all about the current

11
00:00:52,549 --> 00:00:49,739
situation and the worries in Japan with

12
00:00:55,310 --> 00:00:52,559
the reactors over there now marks going

13
00:00:58,520 --> 00:00:55,320

to explain to Travis and to us some of

14

00:01:00,860 --> 00:00:58,530

the concerns with the reactors and what

15

00:01:02,830 --> 00:01:00,870

can possibly be done very interesting

16

00:01:05,090 --> 00:01:02,840

interview that's at the top of the show

17

00:01:07,160 --> 00:01:05,100

following that we have the interview

18

00:01:10,670 --> 00:01:07,170

that was held over from last week where

19

00:01:13,700 --> 00:01:10,680

Maynard has a word to Robbie bono

20

00:01:16,639 --> 00:01:13,710

Chrissy a recipient of a heart

21

00:01:19,550 --> 00:01:16,649

transplant and I guess the message here

22

00:01:22,040 --> 00:01:19,560

folks is if you're not a donor become

23

00:01:24,020 --> 00:01:22,050

one after that we've got a clip from a

24

00:01:26,780 --> 00:01:24,030

TV show here in Australia called the

25

00:01:30,649 --> 00:01:26,790

circle we're just sort of like the view

26

00:01:32,630 --> 00:01:30,659

sort of a mid-morning chat show they

27

00:01:35,630 --> 00:01:32,640

recently had on their resin medico

28

00:01:37,820 --> 00:01:35,640

doctor deeper Daniel discussing

29

00:01:40,850 --> 00:01:37,830

vaccinations and I thought the advice

30

00:01:43,700 --> 00:01:40,860

was pretty good so we'll include that

31

00:01:47,090 --> 00:01:43,710

clip today then after that it's a

32

00:01:49,370 --> 00:01:47,100

visiting radio 2 GB once again dr. Ricci

33

00:01:51,740 --> 00:01:49,380

and myself go in to see I would bring

34

00:01:54,710 --> 00:01:51,750

Glenn wheeler now this was recorded a

35

00:01:56,740 --> 00:01:54,720

few weeks ago before the earthquake and

36

00:01:59,480 --> 00:01:56,750

tsunami in Japan but it's all about

37

00:02:01,880 --> 00:01:59,490

psychics who reckon they can predict the

38

00:02:04,940 --> 00:02:01,890

future very interesting when you think

39

00:02:07,880 --> 00:02:04,950

about recent developments and round off

40

00:02:09,830 --> 00:02:07,890

the show we have former chief executive

41

00:02:12,590 --> 00:02:09,840

officer of Australian skeptics Barry

42

00:02:16,610 --> 00:02:12,600

Williams with the short edit oriole he

43

00:02:18,560 --> 00:02:16,620

wrote about our famous bent spoon award

44

00:02:20,479 --> 00:02:18,570

now I've had an interesting time over

45

00:02:23,180 --> 00:02:20,489

the last two weeks I've been converting

46

00:02:27,020 --> 00:02:23,190

various DVDs I've created over the years

47

00:02:29,780 --> 00:02:27,030

into ntsc format for North America

48

00:02:32,960 --> 00:02:29,790

that's the great water divining DVD from

49

00:02:34,309 --> 00:02:32,970

Australian skeptics the rhyme keeper our

50

00:02:36,819 --> 00:02:34,319

voiceover man Jim

51
00:02:39,800 --> 00:02:36,829
his own DVD about Australian poetry and

52
00:02:43,789 --> 00:02:39,810
a DVD I did a few years ago with my good

53
00:02:45,800 --> 00:02:43,799
friend Gary Clark DVD origami it's very

54
00:02:48,830 --> 00:02:45,810
exciting to have those now in ntsc

55
00:02:51,589 --> 00:02:48,840
format but what a process that is to

56
00:02:53,390 --> 00:02:51,599
convert videos from pal to ntsc i hope i

57
00:02:56,270 --> 00:02:53,400
don't have to do that too often more

58
00:02:59,569 --> 00:02:56,280
news about those dvds in the coming

59
00:03:03,050 --> 00:02:59,579
weeks but for now sit back grab a nice

60
00:03:21,480 --> 00:03:03,060
sausage sandwich and enjoy the skeptic

61
00:03:26,010 --> 00:03:23,920
so this is travis with the skeptic zone

62
00:03:29,290 --> 00:03:26,020
and i'm sitting here with Mark Marvin

63
00:03:31,150 --> 00:03:29,300

and to talk about the tragedy of the

64

00:03:33,010 --> 00:03:31,160

nuclear power plant getting hit by the

65

00:03:35,500 --> 00:03:33,020

earthquake in following tsunami i

66

00:03:37,270 --> 00:03:35,510

graduated from the Naval Academy in 1981

67

00:03:39,729 --> 00:03:37,280

and went into the Navy nuclear power

68

00:03:42,220 --> 00:03:39,739

program and served in the submarine

69

00:03:44,830 --> 00:03:42,230

force I was on a blizzard missile

70

00:03:46,509 --> 00:03:44,840

submarine and then I also was part of

71

00:03:48,460 --> 00:03:46,519

the instructor staff and was an

72

00:03:51,430 --> 00:03:48,470

instructor at one of our land based

73

00:03:54,550 --> 00:03:51,440

training facilities after six and a half

74

00:03:56,759 --> 00:03:54,560

to seven years of active duty I went

75

00:04:00,400 --> 00:03:56,769

into the reserves and I went to work for

76
00:04:01,509 --> 00:04:00,410
Wisconsin Electric which at the time the

77
00:04:05,559 --> 00:04:01,519
ownership has changed but at the time

78
00:04:09,970 --> 00:04:05,569
they owned a Westinghouse to unit

79
00:04:11,170 --> 00:04:09,980
nuclear power plant on Lake Michigan and

80
00:04:13,809 --> 00:04:11,180
it worked there for a few years and then

81
00:04:17,199 --> 00:04:13,819
I went to work for Vermont Yankee which

82
00:04:20,500 --> 00:04:17,209
has a boiling water reactor very similar

83
00:04:22,659 --> 00:04:20,510
in vintage and design to the ones in

84
00:04:25,540 --> 00:04:22,669
Japan with respect to the venting that's

85
00:04:28,600 --> 00:04:25,550
been going on when the windows reactors

86
00:04:31,120 --> 00:04:28,610
scrammed the mainstream ISIL isolation

87
00:04:33,670 --> 00:04:31,130
valves would have shut that that big

88
00:04:36,340 --> 00:04:33,680

steam path to the turban is just shut

89

00:04:38,830 --> 00:04:36,350

off okay they have some safety systems

90

00:04:42,460 --> 00:04:38,840

that will kick in in particular they

91

00:04:44,560 --> 00:04:42,470

have one cooling system that is actually

92

00:04:47,290 --> 00:04:44,570

a steam-driven poem that's kind of a

93

00:04:50,050 --> 00:04:47,300

two-fold purpose one is to take some of

94

00:04:51,640 --> 00:04:50,060

that steam that's in the reactor and and

95

00:04:54,250 --> 00:04:51,650

kind of deplete it so that you don't get

96

00:04:56,260 --> 00:04:54,260

a huge pressure spike and the second

97

00:04:58,180 --> 00:04:56,270

obviously is you take a steam driven

98

00:04:59,980 --> 00:04:58,190

pump and use that to pump water back in

99

00:05:02,440 --> 00:04:59,990

to the reactor so it's kind of like a

100

00:05:05,230 --> 00:05:02,450

win-win what happened about an hour

101
00:05:07,570 --> 00:05:05,240
after the plant shutdown was of course

102
00:05:09,340 --> 00:05:07,580
the tsunami which you know we've all

103
00:05:11,350 --> 00:05:09,350
seen the pictures from that the

104
00:05:14,610 --> 00:05:11,360
television of how big of a wave of water

105
00:05:16,379 --> 00:05:14,620
that was yeah somewhere between 20 and 3

106
00:05:18,860 --> 00:05:16,389
fee they would have been running on

107
00:05:21,840 --> 00:05:18,870
their diesel generators because

108
00:05:24,300 --> 00:05:21,850
apparently the grid was knocked out of

109
00:05:27,150 --> 00:05:24,310
service to the earthquake and what that

110
00:05:28,680 --> 00:05:27,160
did is that flooded where the diesel

111
00:05:30,480 --> 00:05:28,690
generators were and where a lot of their

112
00:05:33,840 --> 00:05:30,490
electrical switchgear was they were down

113
00:05:36,240 --> 00:05:33,850

to just batteries all of the pumps that

114

00:05:38,159 --> 00:05:36,250

you need so it's great that we have the

115

00:05:40,320 --> 00:05:38,169

steam driven pump that's going to take

116

00:05:42,600 --> 00:05:40,330

the steam and then pump water back into

117

00:05:44,640 --> 00:05:42,610

the reactor but it's somewhere online

118

00:05:47,010 --> 00:05:44,650

you have to cool that right which means

119

00:05:48,390 --> 00:05:47,020

you need a pump is taking water out of

120

00:05:51,270 --> 00:05:48,400

the ocean pumping it through a heat

121

00:05:53,700 --> 00:05:51,280

exchanger and back out they lost all of

122

00:05:55,800 --> 00:05:53,710

those sea water cooling pumps and then

123

00:05:58,320 --> 00:05:55,810

they also lost because of lack of

124

00:06:00,330 --> 00:05:58,330

electricity the other pumps that would

125

00:06:02,189 --> 00:06:00,340

have been part of multiple redundant

126

00:06:03,270 --> 00:06:02,199

safety systems high-pressure colon

127

00:06:06,000 --> 00:06:03,280

injection and low pressure coolant

128

00:06:09,180 --> 00:06:06,010

injection there are HR pumps for Decatur

129

00:06:10,860 --> 00:06:09,190

removal all of that equipment was

130

00:06:13,500 --> 00:06:10,870

rendered inoperable do the lack of

131

00:06:14,850 --> 00:06:13,510

electricity and after some period of

132

00:06:16,920 --> 00:06:14,860

time it was pretty obvious that they

133

00:06:19,920 --> 00:06:16,930

weren't getting electricity back they

134

00:06:22,440 --> 00:06:19,930

really had to go to plan D or F which

135

00:06:25,460 --> 00:06:22,450

was how do I get any water into those

136

00:06:28,469 --> 00:06:25,470

reactors and that was through the use of

137

00:06:31,290 --> 00:06:28,479

basically portable firefighting pumps

138

00:06:32,370 --> 00:06:31,300

which are relatively low pressure well

139

00:06:33,930 --> 00:06:32,380

the water is not going to fall into the

140

00:06:36,210 --> 00:06:33,940

reactor if the reactor pressure is

141

00:06:38,820 --> 00:06:36,220

higher than that right which was steam

142

00:06:41,100 --> 00:06:38,830

in there it normally would be right so

143

00:06:42,570 --> 00:06:41,110

they have to vent some of that off so

144

00:06:44,339 --> 00:06:42,580

the water would flow in right there

145

00:06:46,350 --> 00:06:44,349

basically replacing the steam with water

146

00:06:48,150 --> 00:06:46,360

well I gotta take some steam out to

147

00:06:50,670 --> 00:06:48,160

Goose the pressure so that it's below

148

00:06:52,920 --> 00:06:50,680

whatever that pump can put out so the

149

00:06:54,540 --> 00:06:52,930

water would flow in the pictures I've

150

00:06:56,279 --> 00:06:54,550

looked at you see the containment

151
00:06:58,140 --> 00:06:56,289
building and then you see the reactor

152
00:06:59,670 --> 00:06:58,150
inside of it are they pumping this water

153
00:07:01,439 --> 00:06:59,680
directly into the reactor or the

154
00:07:03,360 --> 00:07:01,449
containment around the react into the

155
00:07:05,189 --> 00:07:03,370
reactor itself now the steam that

156
00:07:08,189 --> 00:07:05,199
they're venting would be radioactive

157
00:07:11,670 --> 00:07:08,199
then in fact it's very radioactive

158
00:07:13,370 --> 00:07:11,680
because there was a matter of a number

159
00:07:16,520 --> 00:07:13,380
of hours where they didn't have any

160
00:07:18,500 --> 00:07:16,530
cooling right which meant that the fuel

161
00:07:19,520 --> 00:07:18,510
was damaged and we know the fuel was

162
00:07:23,300 --> 00:07:19,530
damaged for a number of different

163
00:07:25,730 --> 00:07:23,310

reasons one we had these big explosions

164

00:07:28,310 --> 00:07:25,740

what exploded was hydrogen how we got

165

00:07:31,250 --> 00:07:28,320

hydrogen was we got that cladding around

166

00:07:33,800 --> 00:07:31,260

the fuel up to at least 2,200 degrees

167

00:07:36,980 --> 00:07:33,810

Fahrenheit where the zirconium

168

00:07:39,830 --> 00:07:36,990

interacted with water to form psychonia

169

00:07:41,330 --> 00:07:39,840

zirconium dioxide if the hydrogen was

170

00:07:43,160 --> 00:07:41,340

released so when they vented the scheme

171

00:07:47,210 --> 00:07:43,170

there was hydrogen in the reactor and

172

00:07:49,580 --> 00:07:47,220

they eventually vented enough of it into

173

00:07:51,620 --> 00:07:49,590

the secondary containment to the point

174

00:07:53,210 --> 00:07:51,630

where they got enough hydrogen up there

175

00:07:55,760 --> 00:07:53,220

that they reached an explosive

176

00:07:58,460 --> 00:07:55,770

concentration and we had explosions in

177

00:07:59,960 --> 00:07:58,470

both the number one and number 3 reactor

178

00:08:02,000 --> 00:07:59,970

buildings and you can see from the

179

00:08:04,580 --> 00:08:02,010

pictures how extensively damaged those

180

00:08:06,590 --> 00:08:04,590

buildings are it's just a frame now so

181

00:08:09,590 --> 00:08:06,600

the other way that we know that we have

182

00:08:12,410 --> 00:08:09,600

fuel damage is we're able to detect the

183

00:08:14,920 --> 00:08:12,420

fission products such as cesium and

184

00:08:17,960 --> 00:08:14,930

iodine in the environment yeah so how

185

00:08:20,150 --> 00:08:17,970

damaging would that be to people and how

186

00:08:22,310 --> 00:08:20,160

wide of an area without knowing the

187

00:08:24,230 --> 00:08:22,320

specific concentrations of the samples

188

00:08:26,150 --> 00:08:24,240

you really couldn't answer that question

189

00:08:28,730 --> 00:08:26,160

yeah somebody's doing the samples and

190

00:08:30,260 --> 00:08:28,740

getting the data now we're very lucky

191

00:08:32,330 --> 00:08:30,270

that the winds were blowing from the

192

00:08:34,100 --> 00:08:32,340

west to the east which was taking most

193

00:08:37,040 --> 00:08:34,110

of the radioactivity out over the ocean

194

00:08:39,620 --> 00:08:37,050

now obviously winds don't blow in one

195

00:08:41,779 --> 00:08:39,630

direction all the time also depending on

196

00:08:43,370 --> 00:08:41,789

the amount of radioactive particles

197

00:08:46,100 --> 00:08:43,380

released some of them are going to

198

00:08:48,580 --> 00:08:46,110

settle in around the plant and we know

199

00:08:52,360 --> 00:08:48,590

from the news in the past 24 hours that

200

00:08:55,510 --> 00:08:52,370

they have detected cesium and iodine in

201
00:08:58,640 --> 00:08:55,520
spinach milk and other agricultural

202
00:09:00,560 --> 00:08:58,650
products you mentioned that the fuel was

203
00:09:03,140 --> 00:09:00,570
damaged and we can tell it because of

204
00:09:04,280 --> 00:09:03,150
the hydrogen and the explosions now and

205
00:09:05,990 --> 00:09:04,290
the fission program and the fission

206
00:09:08,540 --> 00:09:06,000
products so now would that lead you to

207
00:09:10,790 --> 00:09:08,550
believe that the core went into at least

208
00:09:14,660 --> 00:09:10,800
partial meltdown or would you go that

209
00:09:16,550 --> 00:09:14,670
far I think any reasonable analysis of

210
00:09:18,260 --> 00:09:16,560
the situation would would lead you to

211
00:09:20,120 --> 00:09:18,270
believe that we've got some fairly

212
00:09:24,800 --> 00:09:20,130
significant core damage in each of those

213
00:09:25,850 --> 00:09:24,810

three reactors as well as the spent fuel

214

00:09:28,540 --> 00:09:25,860

in the unit for

215

00:09:32,449 --> 00:09:28,550

or with regards to the actual reactor

216

00:09:34,550 --> 00:09:32,459

when a core goes into partial meltdown

217

00:09:37,910 --> 00:09:34,560

or full meltdown what does that mean

218

00:09:39,889 --> 00:09:37,920

exactly and what what can happen until

219

00:09:43,220 --> 00:09:39,899

we're until we're able to get into a

220

00:09:46,610 --> 00:09:43,230

recovery mode and probably months if not

221

00:09:50,630 --> 00:09:46,620

years from now when we're actually able

222

00:09:53,329 --> 00:09:50,640

to have these plants cool down not only

223

00:09:56,810 --> 00:09:53,339

temperature wise but radioactivity wise

224

00:10:00,050 --> 00:09:56,820

to allow you the pressure vessel head to

225

00:10:03,050 --> 00:10:00,060

be removed or allow for cameras to be

226

00:10:05,090 --> 00:10:03,060

sent in to look at the court we won't

227

00:10:07,940 --> 00:10:05,100

really know the extent of the damage

228

00:10:10,370 --> 00:10:07,950

whether we have fuel rods that have

229

00:10:12,829 --> 00:10:10,380

blistered whether we've actually got

230

00:10:16,370 --> 00:10:12,839

some warping of the fuel or whether we

231

00:10:19,250 --> 00:10:16,380

have substantial melting of part of the

232

00:10:22,069 --> 00:10:19,260

fuel it's impossible to say at this

233

00:10:23,960 --> 00:10:22,079

point in the game if I were to add you

234

00:10:27,740 --> 00:10:23,970

to guess I would say that there's

235

00:10:30,259 --> 00:10:27,750

probably a percentage of the core and

236

00:10:32,600 --> 00:10:30,269

those four units that is melted and

237

00:10:35,030 --> 00:10:32,610

we'll just say worst case scenario say

238

00:10:37,160 --> 00:10:35,040

you had a Total core meltdown if the

239

00:10:40,310 --> 00:10:37,170

core goes into meltdown then you can't

240

00:10:43,220 --> 00:10:40,320

control the nuclear reaction potentially

241

00:10:46,310 --> 00:10:43,230

potentially right so if that continued

242

00:10:48,650 --> 00:10:46,320

to go on what could what would be the

243

00:10:52,519 --> 00:10:48,660

the fallout from now could it blow up

244

00:10:53,960 --> 00:10:52,529

could it could it the problem is it

245

00:10:55,490 --> 00:10:53,970

would make the situation worse the

246

00:10:56,990 --> 00:10:55,500

reactor was shut down and it's still

247

00:10:59,480 --> 00:10:57,000

generating a substantial amount of pee

248

00:11:02,569 --> 00:10:59,490

right if you were to have a situation

249

00:11:04,970 --> 00:11:02,579

where the neutron population was start

250

00:11:06,769 --> 00:11:04,980

to go back up and the reactor power

251
00:11:09,170 --> 00:11:06,779
would be going up then you're going to

252
00:11:11,689 --> 00:11:09,180
be generating a more heat making the

253
00:11:13,579 --> 00:11:11,699
situation even worse blow up is not the

254
00:11:17,600 --> 00:11:13,589
word that I would use however with that

255
00:11:19,850 --> 00:11:17,610
being said we know that when you get to

256
00:11:21,170 --> 00:11:19,860
2,200 degrees that zirconium does

257
00:11:24,139 --> 00:11:21,180
interact with the water and form

258
00:11:27,259 --> 00:11:24,149
hydrogen and the hydrogen was you know

259
00:11:30,829 --> 00:11:27,269
what caused the explosions it is

260
00:11:33,220 --> 00:11:30,839
definitely a concern that you get

261
00:11:36,199 --> 00:11:33,230
hydrogen in the reactor itself

262
00:11:38,150 --> 00:11:36,209
fortunately normally there's no big

263
00:11:39,199 --> 00:11:38,160

source of oxygen that could cause an

264

00:11:42,470 --> 00:11:39,209

explosion so

265

00:11:45,639 --> 00:11:42,480

it's it's pretty unlikely that the fuel

266

00:11:47,749 --> 00:11:45,649

would explode per se yeah especially

267

00:11:50,030 --> 00:11:47,759

especially given that we know that we

268

00:11:52,100 --> 00:11:50,040

have some water in there if you had no

269

00:11:55,220 --> 00:11:52,110

water and there a more likely scenario

270

00:11:58,189 --> 00:11:55,230

would be it would it would melt through

271

00:12:02,059 --> 00:11:58,199

the the metal of the reactor vessel and

272

00:12:03,769 --> 00:12:02,069

into the containment building how far it

273

00:12:07,460 --> 00:12:03,779

would go in the containment building

274

00:12:09,739 --> 00:12:07,470

which is steel and concrete would depend

275

00:12:12,559 --> 00:12:09,749

on whether you could get water in there

276

00:12:15,199 --> 00:12:12,569

or not okay and if it if it potentially

277

00:12:18,889 --> 00:12:15,209

got out of the containment vessel I'm

278

00:12:22,040 --> 00:12:18,899

really bad yeah it would be a really bad

279

00:12:23,960 --> 00:12:22,050

movie everybody remembers the jettison

280

00:12:25,850 --> 00:12:23,970

yes and I don't know what we would call

281

00:12:27,919 --> 00:12:25,860

it over there because China is of course

282

00:12:30,679 --> 00:12:27,929

right next door so I don't know that we

283

00:12:32,679 --> 00:12:30,689

call that the Brazil syndrome or what

284

00:12:36,319 --> 00:12:32,689

but it's hard to answer these

285

00:12:38,269 --> 00:12:36,329

hypothetical questions given the reality

286

00:12:43,369 --> 00:12:38,279

of where we are we have water in there

287

00:12:45,259 --> 00:12:43,379

the situation now is not good but it's I

288

00:12:47,030 --> 00:12:45,269

think I explained for the last couple

289

00:12:49,239 --> 00:12:47,040

days of my interviews at least it's not

290

00:12:52,179 --> 00:12:49,249

getting worse every day right it's I

291

00:12:55,669 --> 00:12:52,189

hesitate to call it stable but

292

00:12:57,650 --> 00:12:55,679

relatively speaking you know a week ago

293

00:12:59,629 --> 00:12:57,660

every day you turn on the news it was

294

00:13:01,639 --> 00:12:59,639

getting worse every day yeah now it's

295

00:13:05,359 --> 00:13:01,649

getting a little bit better the the

296

00:13:07,340 --> 00:13:05,369

situation is stable with within within

297

00:13:09,350 --> 00:13:07,350

the context of how we want to use that

298

00:13:11,090 --> 00:13:09,360

word yeah they're definitely not out of

299

00:13:13,009 --> 00:13:11,100

the woods yet now the other thing that

300

00:13:15,319 --> 00:13:13,019

I've heard talked about is is that since

301

00:13:17,689 --> 00:13:15,329

these the outer buildings have had

302

00:13:20,359 --> 00:13:17,699

explosions in them and like you said one

303

00:13:24,230 --> 00:13:20,369

of them was really mangled how are they

304

00:13:26,569 --> 00:13:24,240

able to even get in there to do stuff

305

00:13:29,509 --> 00:13:26,579

and to vent like they've been doing and

306

00:13:31,249 --> 00:13:29,519

to get water into the reactor if I mean

307

00:13:33,739 --> 00:13:31,259

all these systems must be damaged well

308

00:13:36,230 --> 00:13:33,749

but what you can see is is the very

309

00:13:38,660 --> 00:13:36,240

tippy top of the building yeah which is

310

00:13:41,480 --> 00:13:38,670

where the refueling deck is on the spent

311

00:13:42,670 --> 00:13:41,490

fuel pool and the crane that allows you

312

00:13:44,680 --> 00:13:42,680

to do refueling and

313

00:13:47,829 --> 00:13:44,690

remove the head of the reactor and that

314

00:13:52,120 --> 00:13:47,839

type of thing everything else is down

315

00:13:54,880 --> 00:13:52,130

lower and you know the question is how

316

00:13:57,880 --> 00:13:54,890

much how much damage do we have down

317

00:14:00,430 --> 00:13:57,890

lower in the reactor building all of the

318

00:14:01,960 --> 00:14:00,440

pumps and heat exchanges that we would

319

00:14:03,280 --> 00:14:01,970

need to cool the reactor would be down

320

00:14:05,290 --> 00:14:03,290

lower they're not up there on that

321

00:14:09,730 --> 00:14:05,300

refueling all right actually so my hope

322

00:14:12,430 --> 00:14:09,740

is most of that is not damaged and since

323

00:14:14,100 --> 00:14:12,440

there's multiple redundant systems that

324

00:14:16,389 --> 00:14:14,110

they'll at least be able to get one

325

00:14:18,579 --> 00:14:16,399

system working in each of those

326

00:14:20,740 --> 00:14:18,589

buildings I think from a command and

327

00:14:23,769 --> 00:14:20,750

control perspective I don't know whether

328

00:14:25,780 --> 00:14:23,779

they change who's in charge or what but

329

00:14:27,940 --> 00:14:25,790

they seem to be going about it a lot

330

00:14:31,000 --> 00:14:27,950

better now than they were a few days ago

331

00:14:33,699 --> 00:14:31,010

they did quite a bit of work at units 5

332

00:14:36,550 --> 00:14:33,709

& 6 to stabilize those and those units

333

00:14:37,960 --> 00:14:36,560

now are not so much of a worry and

334

00:14:40,630 --> 00:14:37,970

they're going to start with their

335

00:14:42,579 --> 00:14:40,640

restoration efforts on unit 2 who's

336

00:14:44,530 --> 00:14:42,589

building has the least damage there was

337

00:14:48,040 --> 00:14:44,540

an explosion but nothing to the extent

338

00:14:49,570 --> 00:14:48,050

of the other buildings so externally you

339

00:14:52,150 --> 00:14:49,580

don't even really see any damage in that

340

00:14:54,280 --> 00:14:52,160

building right and so hopefully they'll

341

00:14:56,320 --> 00:14:54,290

restore some cool into that one and get

342

00:14:59,650 --> 00:14:56,330

that one under control and then turn

343

00:15:01,990 --> 00:14:59,660

their attentions to units 1 3 & 4 with

344

00:15:04,000 --> 00:15:02,000

what had happened after the tsunami hit

345

00:15:06,160 --> 00:15:04,010

with the power problems and everything

346

00:15:10,150 --> 00:15:06,170

else do you think that there was some

347

00:15:12,340 --> 00:15:10,160

significant human error that was done to

348

00:15:14,320 --> 00:15:12,350

create this kind of situation letting

349

00:15:18,100 --> 00:15:14,330

the water level get too low in the spent

350

00:15:20,199 --> 00:15:18,110

fuel pools not having and not even just

351

00:15:22,840 --> 00:15:20,209

from that from the aftermath but just

352

00:15:25,090 --> 00:15:22,850

from planning where the generators and

353

00:15:27,340 --> 00:15:25,100

stuff got knocked out so easily you hate

354

00:15:29,980 --> 00:15:27,350

to be a backseat driver but I was

355

00:15:31,930 --> 00:15:29,990

surprised when they started having

356

00:15:34,090 --> 00:15:31,940

trouble with the spent fuel pools

357

00:15:37,870 --> 00:15:34,100

knowing that they had fire pumps

358

00:15:40,660 --> 00:15:37,880

available and typically at a power plant

359

00:15:42,490 --> 00:15:40,670

you'll have a nonzero operator that

360

00:15:44,949 --> 00:15:42,500

would too around the building and

361

00:15:47,170 --> 00:15:44,959

inspect the building at least once an

362

00:15:49,090 --> 00:15:47,180

hour so normally somebody should have

363

00:15:50,500 --> 00:15:49,100

been up going up to the refueling deck

364

00:15:52,000 --> 00:15:50,510

and checking on the spent a few

365

00:15:54,780 --> 00:15:52,010

pull the temperature of the water levels

366

00:15:56,950 --> 00:15:54,790

every hour you would have thought that

367

00:15:58,540 --> 00:15:56,960

once they first noticed that the

368

00:16:01,630 --> 00:15:58,550

temperature was going up or the water

369

00:16:03,970 --> 00:16:01,640

level was going down that they would

370

00:16:06,850 --> 00:16:03,980

take one of the fire hoses and use that

371

00:16:09,880 --> 00:16:06,860

to refill the pool had they done that we

372

00:16:12,790 --> 00:16:09,890

wouldn't have had the explosion and all

373

00:16:14,950 --> 00:16:12,800

the damage at unit 4 in you know in my

374

00:16:17,680 --> 00:16:14,960

opinion you know that was a mistake that

375

00:16:19,930 --> 00:16:17,690

shouldn't have happened but you know I

376

00:16:21,940 --> 00:16:19,940

it's hard to second-guess because you

377

00:16:24,070 --> 00:16:21,950

don't know what the circumstances were

378

00:16:25,840 --> 00:16:24,080

that were going on at the time I mean

379

00:16:29,320 --> 00:16:25,850

there's you know three other reactors

380

00:16:32,380 --> 00:16:29,330

having partial fuel meltdowns explosions

381

00:16:33,850 --> 00:16:32,390

probably high radiation levels maybe it

382

00:16:36,370 --> 00:16:33,860

was to the point where nobody could

383

00:16:39,040 --> 00:16:36,380

could get up to that pool there was no

384

00:16:41,920 --> 00:16:39,050

way to get a fire hose up there and

385

00:16:43,660 --> 00:16:41,930

refill it I don't know but we could have

386

00:16:46,300 --> 00:16:43,670

done without the spent fuel pool

387

00:16:49,000 --> 00:16:46,310

problems and had we not had that to deal

388

00:16:50,980 --> 00:16:49,010

with i think the plant would be a lot

389

00:16:53,650 --> 00:16:50,990

farther along in the recovery because i

390

00:16:55,480 --> 00:16:53,660

really think that a lot of the high

391

00:16:58,360 --> 00:16:55,490

radiation levels have been caused by the

392

00:17:00,280 --> 00:16:58,370

issues that they've had with the spent

393

00:17:02,350 --> 00:17:00,290

fuel pools and obviously a lot of

394

00:17:04,329 --> 00:17:02,360

attention and focus helicopters fire

395

00:17:06,280 --> 00:17:04,339

trucks all those type of things now

396

00:17:08,980 --> 00:17:06,290

trying to get some water back on those

397

00:17:11,680 --> 00:17:08,990

pools that perhaps could have been

398

00:17:13,750 --> 00:17:11,690

avoided right and I guess I my last

399

00:17:16,060 --> 00:17:13,760

question will be how common are these

400

00:17:20,949 --> 00:17:16,070

types of plants and what other types of

401
00:17:22,540 --> 00:17:20,959
plants so around the world most most of

402
00:17:24,610 --> 00:17:22,550
the reactors are either pressurized

403
00:17:27,069 --> 00:17:24,620
water reactors for boiling water

404
00:17:30,250 --> 00:17:27,079
reactors and there's actually quite a

405
00:17:33,960 --> 00:17:30,260
few designs out there at this site the

406
00:17:37,870 --> 00:17:33,970
unit one at Fukushima one actually

407
00:17:40,360 --> 00:17:37,880
achieved criticality i think in 1970 and

408
00:17:43,810 --> 00:17:40,370
went into commercial operation in 1971

409
00:17:47,530 --> 00:17:43,820
what's a long time ago yeah that's 40

410
00:17:51,580 --> 00:17:47,540
years ago so nothing stands still and in

411
00:17:54,880 --> 00:17:51,590
fact in the 70s and 80s the designs were

412
00:17:57,070 --> 00:17:54,890
evolving fairly rapidly especially as

413
00:17:59,050 --> 00:17:57,080

more and more safety regulations were

414

00:18:01,980 --> 00:17:59,060

put in place and more more safety

415

00:18:05,520 --> 00:18:01,990

requirements the the designs evolved

416

00:18:07,770 --> 00:18:05,530

rapidly and in fact at unit 6 at this

417

00:18:10,260 --> 00:18:07,780

site the first five units have a mark 1

418

00:18:13,380 --> 00:18:10,270

containment design you know six has a

419

00:18:15,540 --> 00:18:13,390

mark 2 then there was a mark 3 so

420

00:18:17,790 --> 00:18:15,550

there's there's been an evolution of the

421

00:18:20,070 --> 00:18:17,800

of the boiling water reactor to design

422

00:18:22,110 --> 00:18:20,080

and the same is true for for the

423

00:18:24,270 --> 00:18:22,120

pressurized water reactor design the

424

00:18:25,919 --> 00:18:24,280

smaller ones originally were what we

425

00:18:28,410 --> 00:18:25,929

call to loop plants where there's two

426
00:18:30,510 --> 00:18:28,420
steam generators there was kind of an

427
00:18:32,010 --> 00:18:30,520
intermediate size that had three loops

428
00:18:35,190 --> 00:18:32,020
and then some of the larger ones had

429
00:18:36,990 --> 00:18:35,200
four originally this technology was

430
00:18:38,870 --> 00:18:37,000
developed an engineer in the United

431
00:18:40,290 --> 00:18:38,880
States and the big players were

432
00:18:42,570 --> 00:18:40,300
Westinghouse and General Electric

433
00:18:45,000 --> 00:18:42,580
overtime license agreements were done

434
00:18:47,910 --> 00:18:45,010
and so the French started off with

435
00:18:49,740 --> 00:18:47,920
Westinghouse plans but then took that

436
00:18:52,080 --> 00:18:49,750
design and essentially came up with

437
00:18:53,940 --> 00:18:52,090
their own designs and now they have

438
00:18:55,669 --> 00:18:53,950

their own company that sells nuclear

439

00:18:59,520 --> 00:18:55,679

power plants around the world and also

440

00:19:00,720 --> 00:18:59,530

Westinghouse was was sold and I think I

441

00:19:03,600 --> 00:19:00,730

got to get this right I think it's

442

00:19:05,460 --> 00:19:03,610

actually owned by Toshiba and I think

443

00:19:07,500 --> 00:19:05,470

it's G that has the partnership with

444

00:19:09,570 --> 00:19:07,510

Hitachi in the nuclear business the

445

00:19:12,299 --> 00:19:09,580

Koreans have developed their own nuclear

446

00:19:14,370 --> 00:19:12,309

power plant technology originally when

447

00:19:17,730 --> 00:19:14,380

they first did power plants in Korea

448

00:19:19,470 --> 00:19:17,740

they bought the designs from the

449

00:19:21,960 --> 00:19:19,480

traditional suppliers but now they've

450

00:19:24,090 --> 00:19:21,970

developed their own designs probably

451
00:19:25,770 --> 00:19:24,100
what most people are interested in was

452
00:19:29,220 --> 00:19:25,780
ok if we were going to build a nuclear

453
00:19:30,840 --> 00:19:29,230
power plant today what kind of design

454
00:19:32,460 --> 00:19:30,850
would it be I've been out of the

455
00:19:34,620 --> 00:19:32,470
industry for some years so I'm not a

456
00:19:36,120 --> 00:19:34,630
hundred percent up to speed then the

457
00:19:38,820 --> 00:19:36,130
newest design from Westinghouse is

458
00:19:42,810 --> 00:19:38,830
called the ap1000 and the big difference

459
00:19:45,720 --> 00:19:42,820
between that plant and the plants that

460
00:19:49,620 --> 00:19:45,730
were built in the 70s and 80s is there's

461
00:19:52,500 --> 00:19:49,630
a lot more passive safety systems the

462
00:19:54,450 --> 00:19:52,510
big problem at Fukushima was you needed

463
00:19:56,250 --> 00:19:54,460

electricity you needed the operators to

464

00:19:58,530 --> 00:19:56,260

be able to do some things the automatic

465

00:20:00,180 --> 00:19:58,540

systems kicked in the one they lost

466

00:20:02,400 --> 00:20:00,190

power everything went working and then

467

00:20:06,900 --> 00:20:02,410

it required people a lot of people that

468

00:20:08,970 --> 00:20:06,910

work very hard to try to minimize this

469

00:20:12,120 --> 00:20:08,980

those fire hoses didn't get hooked up by

470

00:20:13,730 --> 00:20:12,130

themselves those generators didn't just

471

00:20:17,299 --> 00:20:13,740

show up by themselves and a lot of

472

00:20:19,700 --> 00:20:17,309

people have worked very hard to get us

473

00:20:22,610 --> 00:20:19,710

to where we are now and hopefully we're

474

00:20:24,770 --> 00:20:22,620

on the verge of every day getting good

475

00:20:27,350 --> 00:20:24,780

news coming from that site but the newer

476

00:20:29,390 --> 00:20:27,360

designs like the ap1000 I think the

477

00:20:32,450 --> 00:20:29,400

latest design from G is called the EXP

478

00:20:35,330 --> 00:20:32,460

WR have a lot more passive features and

479

00:20:37,760 --> 00:20:35,340

the Westinghouse one is designed to go

480

00:20:40,100 --> 00:20:37,770

72 hours without anybody having to do

481

00:20:43,600 --> 00:20:40,110

anything and no electricity being

482

00:20:46,250 --> 00:20:43,610

required so had we had new Westinghouse

483

00:20:47,390 --> 00:20:46,260

8100 that's using a p1 thousands at this

484

00:20:49,549 --> 00:20:47,400

site we could have gone three days

485

00:20:51,380 --> 00:20:49,559

without needing anyone or any

486

00:20:55,310 --> 00:20:51,390

electricity and we would obviously been

487

00:20:57,560 --> 00:20:55,320

a lot better off than then we were with

488

00:21:00,320 --> 00:20:57,570

the plants of the vintage that that we

489

00:21:03,590 --> 00:21:00,330

have now huh part of the problem here is

490

00:21:05,750 --> 00:21:03,600

not really the design of the plants

491

00:21:10,190 --> 00:21:05,760

clearly the new generations are going to

492

00:21:12,020 --> 00:21:10,200

be better and safer the problem is when

493

00:21:14,419 --> 00:21:12,030

you when you build a planet you design

494

00:21:17,480 --> 00:21:14,429

to a certain design basis certain size

495

00:21:18,890 --> 00:21:17,490

earthquake certain size tsunami you know

496

00:21:21,169 --> 00:21:18,900

all those are taken into account in

497

00:21:23,600 --> 00:21:21,179

terms of how you put the plant together

498

00:21:25,640 --> 00:21:23,610

and somebody asked me a question about

499

00:21:28,070 --> 00:21:25,650

what's in between a plant that's in a

500

00:21:30,140 --> 00:21:28,080

place where its Geographic be stable and

501
00:21:32,030 --> 00:21:30,150
one that may be in a place where you

502
00:21:34,400 --> 00:21:32,040
might have a lot of earthquakes and I

503
00:21:36,830 --> 00:21:34,410
had the the plants that I worked out

504
00:21:38,630 --> 00:21:36,840
weren't fairly geologically stable areas

505
00:21:41,299 --> 00:21:38,640
but I had a chance to go do an

506
00:21:44,090 --> 00:21:41,309
inspection at trojan nuclear plant in

507
00:21:46,310 --> 00:21:44,100
Oregon which it's now shut down but

508
00:21:47,840 --> 00:21:46,320
obviously it wasn't at that time and it

509
00:21:50,330 --> 00:21:47,850
was amazing to me to see the differences

510
00:21:51,890 --> 00:21:50,340
in the plants how many additional

511
00:21:56,000 --> 00:21:51,900
supports they had on the piping all

512
00:21:56,900 --> 00:21:56,010
these hydraulic dampers all the

513
00:21:59,840 --> 00:21:56,910

different things that had to be taken

514

00:22:02,750 --> 00:21:59,850

into account because the geology of the

515

00:22:05,060 --> 00:22:02,760

area and the chance for for larger

516

00:22:08,060 --> 00:22:05,070

earthquakes but in this case I don't

517

00:22:09,500 --> 00:22:08,070

know what the actual design basis was

518

00:22:11,600 --> 00:22:09,510

but but nobody planned on a

519

00:22:13,850 --> 00:22:11,610

nine-point-oh mirthquake and certainly

520

00:22:16,130 --> 00:22:13,860

nobody planned on a thirty foot so now

521

00:22:18,980 --> 00:22:16,140

clearly that's what I'm saying whether

522

00:22:21,140 --> 00:22:18,990

or not we would restart units 5 & 6 what

523

00:22:22,430 --> 00:22:21,150

we have to look at and say is is it safe

524

00:22:25,700 --> 00:22:22,440

to restart them even if we could

525

00:22:27,440 --> 00:22:25,710

right given that we now know that we can

526
00:22:29,539 --> 00:22:27,450
have a nine-point-oh mirthquake and a

527
00:22:32,299 --> 00:22:29,549
30-foot tsunami it may turn out that

528
00:22:33,440 --> 00:22:32,309
that particular site is not a place

529
00:22:35,960 --> 00:22:33,450
where you want to have a nuclear power

530
00:22:37,700 --> 00:22:35,970
plant anymore right and and they're

531
00:22:40,430 --> 00:22:37,710
going to have to look at other sites in

532
00:22:42,860 --> 00:22:40,440
Japan I don't know what the site

533
00:22:44,720 --> 00:22:42,870
actually looks at the Fukushima to plant

534
00:22:47,029 --> 00:22:44,730
which is about seven miles away and how

535
00:22:49,759 --> 00:22:47,039
much damage they incurred from the

536
00:22:53,060 --> 00:22:49,769
tsunami and you know what the site looks

537
00:22:55,340 --> 00:22:53,070
like in terms of how well protected that

538
00:22:57,409 --> 00:22:55,350

plan is as well and there may be others

539

00:22:59,690 --> 00:22:57,419

that have to be looked at around the

540

00:23:01,820 --> 00:22:59,700

world in terms of the actual physical

541

00:23:04,369 --> 00:23:01,830

height of the plant and where the safety

542

00:23:06,649 --> 00:23:04,379

equipment is located versus the the

543

00:23:08,330 --> 00:23:06,659

chance of something more significant

544

00:23:11,539 --> 00:23:08,340

than what we originally designed the

545

00:23:22,879 --> 00:23:11,549

plants for well thank you very much for

546

00:23:24,499 --> 00:23:22,889

your time you're welcome hey bro hey bro

547

00:23:26,149 --> 00:23:24,509

what's this message you sent me about a

548

00:23:27,529 --> 00:23:26,159

million dollars skeptic bros don't come

549

00:23:29,119 --> 00:23:27,539

and finally cracked it a detection

550

00:23:31,879 --> 00:23:29,129

device that will prove the existence the

551
00:23:35,779 --> 00:23:31,889
paranormal what let me assure you hey

552
00:23:38,869 --> 00:23:35,789
help why are we in a cupboard check it

553
00:23:42,139 --> 00:23:38,879
out a new placebo band and it's glowing

554
00:23:44,240 --> 00:23:42,149
yes in the dark that's when the ghosts

555
00:23:46,759 --> 00:23:44,250
are rebelled we're gonna win Randy's

556
00:23:48,499 --> 00:23:46,769
million dollars I'm going home let me

557
00:23:54,019 --> 00:23:48,509
out can't go but only opens from the

558
00:23:56,659 --> 00:23:54,029
outside go to scare dick balls get a

559
00:24:03,110 --> 00:23:56,669
glow in the doxy bulb and where you

560
00:24:11,140 --> 00:24:07,770
here's my not spooky action at a

561
00:24:14,750 --> 00:24:13,160
you can talk about your worlds of

562
00:24:16,220 --> 00:24:14,760
science fiction you can talk about your

563
00:24:17,930 --> 00:24:16,230

star trek you can talk about your star

564

00:24:20,480 --> 00:24:17,940

wars you can fly around the universe in

565

00:24:22,610 --> 00:24:20,490

a blue phone box but when you have one

566

00:24:25,970 --> 00:24:22,620

heart transplanted from one human being

567

00:24:27,830 --> 00:24:25,980

to another and the guy who got it sir

568

00:24:28,940 --> 00:24:27,840

Robbie here man Robbie I've known you

569

00:24:30,830 --> 00:24:28,950

for a while I haven't seen you for a

570

00:24:32,480 --> 00:24:30,840

while only five weeks ago you had

571

00:24:35,690 --> 00:24:32,490

another heart put inside your chest

572

00:24:38,330 --> 00:24:35,700

people with hip operations don't get up

573

00:24:41,270 --> 00:24:38,340

that fast use it what's it like oh my

574

00:24:44,630 --> 00:24:41,280

it's fantastic I mean really for being

575

00:24:47,060 --> 00:24:44,640

so sick and suddenly out of nowhere to

576

00:24:48,620 --> 00:24:47,070

get told you're going to live Robin was

577

00:24:50,740 --> 00:24:48,630

it a degenerative heart disease or a

578

00:24:54,170 --> 00:24:50,750

specific disease you had I'd swine flu

579

00:24:57,410 --> 00:24:54,180

so basically had the flu and from the

580

00:25:00,710 --> 00:24:57,420

flu caused major heart damage and I

581

00:25:03,260 --> 00:25:00,720

don't wait about five times so it was

582

00:25:05,120 --> 00:25:03,270

pretty heavy I mean it was um I just got

583

00:25:06,200 --> 00:25:05,130

a photo with the green Reaper so I had

584

00:25:08,990 --> 00:25:06,210

to get out because was Green River

585

00:25:10,340 --> 00:25:09,000

walking around the convention so I had

586

00:25:11,540 --> 00:25:10,350

to get out one and you got a photo of

587

00:25:13,730 --> 00:25:11,550

yourself giving him the finger know that

588

00:25:15,320 --> 00:25:13,740

yeah not this time buddy because we hear

589

00:25:17,150 --> 00:25:15,330

about how dangerous a swine flu what's

590

00:25:19,130 --> 00:25:17,160

the most people gotta yeah you know most

591

00:25:20,540 --> 00:25:19,140

people I'm not in that group I won't get

592

00:25:22,820 --> 00:25:20,550

back side and everything but you're an

593

00:25:25,340 --> 00:25:22,830

example of the most vulnerable group you

594

00:25:26,840 --> 00:25:25,350

will someone with a problem and spine

595

00:25:28,970 --> 00:25:26,850

flu got you and then you needed a new

596

00:25:31,250 --> 00:25:28,980

heart yeah that's right and remember not

597

00:25:33,890 --> 00:25:31,260

all the scanner it's very sad when you

598

00:25:35,600 --> 00:25:33,900

sit down and go for a clinic and you see

599

00:25:37,850 --> 00:25:35,610

so many people sick with lungs and heart

600

00:25:40,430 --> 00:25:37,860

and how many people waiting and there's

601
00:25:41,660 --> 00:25:40,440
a lot of people waiting so donate I mean

602
00:25:43,430 --> 00:25:41,670
that's the main thing I say to people

603
00:25:45,650 --> 00:25:43,440
talk to your family like the ads go

604
00:25:47,300 --> 00:25:45,660
because at the end of the day even if

605
00:25:49,850 --> 00:25:47,310
you gotten your license or you got your

606
00:25:51,830 --> 00:25:49,860
own card doesn't mean jack because it's

607
00:25:54,560 --> 00:25:51,840
your mum or dad what's your partner's

608
00:25:57,020 --> 00:25:54,570
who make out decision so tell me your

609
00:26:00,290 --> 00:25:57,030
wishes yeah and the fact is a young boy

610
00:26:02,630 --> 00:26:00,300
who died was 25 who gave me a chance to

611
00:26:05,560 --> 00:26:02,640
live I got two children and he gave

612
00:26:08,080 --> 00:26:05,570
seven of us life

613
00:26:10,780 --> 00:26:08,090

and that family worst time in their

614

00:26:12,520 --> 00:26:10,790

lives gave us life Robbie as someone who

615

00:26:14,260 --> 00:26:12,530

has worked their life in sci-fi and

616

00:26:16,360 --> 00:26:14,270

fantasy you died a couple of times

617

00:26:18,160 --> 00:26:16,370

you've been through what only a couple

618

00:26:20,800 --> 00:26:18,170

of years ago would be a scientifically

619

00:26:23,020 --> 00:26:20,810

impossible operation did you see any

620

00:26:24,400 --> 00:26:23,030

bright lights 20 tunnel did the Grim

621

00:26:26,050 --> 00:26:24,410

Reaper come along from you know from

622

00:26:28,000 --> 00:26:26,060

family guy and say hello what was going

623

00:26:30,820 --> 00:26:28,010

on I you know I was waiting to their I

624

00:26:33,550 --> 00:26:30,830

was hoping to see a lie which scares me

625

00:26:35,890 --> 00:26:33,560

because I'm going oh no I didn't see any

626

00:26:38,740 --> 00:26:35,900

like I don't know I just knew it wasn't

627

00:26:40,540 --> 00:26:38,750

my time when they brought my wife in and

628

00:26:43,000 --> 00:26:40,550

this is a true story now this is really

629

00:26:45,820 --> 00:26:43,010

true they said you know do I want to get

630

00:26:48,100 --> 00:26:45,830

my last rites and all and I had a mask

631

00:26:49,780 --> 00:26:48,110

on and I took it down and all the

632

00:26:55,030 --> 00:26:49,790

doctors and nurses are standing I got

633

00:26:56,860 --> 00:26:55,040

jet I night put it back God yeah Alvin

634

00:26:59,050 --> 00:26:56,870

was so serious because they were working

635

00:27:00,520 --> 00:26:59,060

very hard on me and it all cracked up I

636

00:27:02,110 --> 00:27:00,530

thought it was funny it made everyone

637

00:27:03,460 --> 00:27:02,120

calm down a little bit well that's

638

00:27:05,200 --> 00:27:03,470

better than saying atheist because it's

639

00:27:06,820 --> 00:27:05,210

really good it's going to confuse him no

640

00:27:10,420 --> 00:27:06,830

end have we got one of them we got one

641

00:27:13,030 --> 00:27:10,430

downstairs even when I was dying I think

642

00:27:14,590 --> 00:27:13,040

that nerd in me came out for me Maynard

643

00:27:16,090 --> 00:27:14,600

you didn't see me for Cubby's but I was

644

00:27:17,830 --> 00:27:16,100

treated seeking in the end even looking

645

00:27:19,810 --> 00:27:17,840

at you now do when I saw you a couple of

646

00:27:21,610 --> 00:27:19,820

years ago before the colors back in the

647

00:27:23,260 --> 00:27:21,620

face the dark rings it even I've still

648

00:27:24,880 --> 00:27:23,270

got under my eyes are gone under your

649

00:27:26,230 --> 00:27:24,890

eyes they're me so is anything like you

650

00:27:27,730 --> 00:27:26,240

can't do now named got the Hat they're

651
00:27:29,350 --> 00:27:27,740
like you don't want to smoke or drink

652
00:27:30,760 --> 00:27:29,360
too much there you know but you don't

653
00:27:33,190 --> 00:27:30,770
want to do that I mean main thing is

654
00:27:35,680 --> 00:27:33,200
respect my donor and that's a big thing

655
00:27:38,170 --> 00:27:35,690
is they get through our heads we've been

656
00:27:40,690 --> 00:27:38,180
given life I think it bizarre thing was

657
00:27:42,130 --> 00:27:40,700
I was ready to die and i was at that

658
00:27:44,830 --> 00:27:42,140
stage know where i was going to die in

659
00:27:47,620 --> 00:27:44,840
three months and you cite your head up

660
00:27:49,600 --> 00:27:47,630
for death then suddenly they come in and

661
00:27:52,660 --> 00:27:49,610
open a window basically are blind and

662
00:27:55,030 --> 00:27:52,670
say to you go live your life and that's

663
00:27:58,060 --> 00:27:55,040

bizarre because you know you've cited

664

00:27:59,830 --> 00:27:58,070

yourself up because yeah I've been here

665

00:28:02,560 --> 00:27:59,840

I don't ever do that again i wanna i

666

00:28:04,000 --> 00:28:02,570

want to see life the great surgeons are

667

00:28:06,220 --> 00:28:04,010

the great nurses and the people down to

668

00:28:08,350 --> 00:28:06,230

st. Vincent's and what our Aussie

669

00:28:09,910 --> 00:28:08,360

doctors doing and I Z nurses are

670

00:28:11,260 --> 00:28:09,920

fantastic man

671

00:28:13,060 --> 00:28:11,270

yeah we're the best in the world would

672

00:28:15,310 --> 00:28:13,070

mine it's just add seen some of the

673

00:28:17,650 --> 00:28:15,320

equipment mostly equipment is donated

674

00:28:19,660 --> 00:28:17,660

we've got the best in the world and all

675

00:28:21,580 --> 00:28:19,670

our equipments donated Robbie Cano cuz

676

00:28:23,590 --> 00:28:21,590

it's great chatting to you it's great

677

00:28:25,360 --> 00:28:23,600

seeing you up and around only after five

678

00:28:27,040 --> 00:28:25,370

weeks for the new heart many more years

679

00:28:28,030 --> 00:28:27,050

there so 25 year old heart that means

680

00:28:29,890 --> 00:28:28,040

you're gonna live to be a hundred and

681

00:28:30,940 --> 00:28:29,900

seventy there's no hey I hope so you get

682

00:28:32,350 --> 00:28:30,950

anything from the heart people so you

683

00:28:34,180 --> 00:28:32,360

get a heart transplant you get and you

684

00:28:35,920 --> 00:28:34,190

get some of the person's emotions or

685

00:28:37,960 --> 00:28:35,930

something is that true is just the drugs

686

00:28:41,170 --> 00:28:37,970

like you go I don't know that doctors

687

00:28:44,140 --> 00:28:41,180

say no right nurses and transplant

688

00:28:45,820 --> 00:28:44,150

patients say yes so what do you got a 25

689

00:28:47,260 --> 00:28:45,830

year old so have you been hooning in the

690

00:28:50,050 --> 00:28:47,270

car more than normally what's been going

691

00:28:53,860 --> 00:28:50,060

on it dragged much run my thing is I was

692

00:28:56,020 --> 00:28:53,870

a soft drink nut I love coca cola I love

693

00:28:58,840 --> 00:28:56,030

soft drink and I can't tape soft drink

694

00:29:01,780 --> 00:28:58,850

now at all at all I just hate the taste

695

00:29:04,330 --> 00:29:01,790

it's not I don't know it was bizarre I

696

00:29:08,350 --> 00:29:04,340

just can't put soft drink I drink fresh

697

00:29:09,850 --> 00:29:08,360

juices water milk which it doesn't sound

698

00:29:12,400 --> 00:29:09,860

like a bad change that sounds like snow

699

00:29:15,090 --> 00:29:12,410

not anymore everyone study there any air

700

00:29:17,260 --> 00:29:15,100

but I mean for me it was that was a

701
00:29:21,640 --> 00:29:17,270
mind-blowing you know and coffee and tea

702
00:29:23,850 --> 00:29:21,650
I'm not into my own coffee shops I can't

703
00:29:27,340 --> 00:29:23,860
drink coffee and I can't drink teas

704
00:29:30,100 --> 00:29:27,350
verbal to you know and that's weird and

705
00:29:32,530 --> 00:29:30,110
the guy who got the lungs was my heat

706
00:29:35,590 --> 00:29:32,540
went in the same time as me some a

707
00:29:38,290 --> 00:29:35,600
double lung guy and he he's been in the

708
00:29:40,660 --> 00:29:38,300
country use a big dutch bug and he's

709
00:29:44,110 --> 00:29:40,670
been here 30 years and he knew he hated

710
00:29:46,450 --> 00:29:44,120
Weetabix and now he's obsessed of eating

711
00:29:48,040 --> 00:29:46,460
Weetabix and he got out in a hospital it

712
00:29:50,830 --> 00:29:48,050
sums me with soft drink I couldn't dream

713
00:29:53,590 --> 00:29:50,840

soft drink so and we've got told our guy

714

00:29:55,030 --> 00:29:53,600

was a very healthy triathlete you never

715

00:29:56,620 --> 00:29:55,040

know and they don't like talking about

716

00:29:59,350 --> 00:29:56,630

it because people get turned off of that

717

00:30:03,040 --> 00:29:59,360

DNA going into someone but all I can say

718

00:30:04,480 --> 00:30:03,050

is that family he lives on in us Robbie

719

00:30:05,770 --> 00:30:04,490

Monica's you obviously going to tell

720

00:30:07,420 --> 00:30:05,780

people to make sure that not only they

721

00:30:08,770 --> 00:30:07,430

tick the donation box on their license

722

00:30:10,810 --> 00:30:08,780

but they discuss it with their family

723

00:30:13,450 --> 00:30:10,820

that's the main thing talk to your mom

724

00:30:15,310 --> 00:30:13,460

and dad talk to you your partner's talk

725

00:30:17,260 --> 00:30:15,320

to your loved ones tell them what your

726

00:30:19,450 --> 00:30:17,270

wishes are because at the end of the day

727

00:30:20,630 --> 00:30:19,460

taking your license doing leaving the

728

00:30:23,300 --> 00:30:20,640

donors card means jack

729

00:30:24,500 --> 00:30:23,310

okay if I don't know your wishes yeah

730

00:30:26,810 --> 00:30:24,510

it's very important because remember

731

00:30:29,210 --> 00:30:26,820

seven people live today because of

732

00:30:31,070 --> 00:30:29,220

someone sat down and talked to their

733

00:30:33,260 --> 00:30:31,080

family five weeks and you up and around

734

00:30:35,990 --> 00:30:33,270

I need to lie down two days after big

735

00:30:51,570 --> 00:30:36,000

weekend yeah no this is great but thank

736

00:30:55,810 --> 00:30:53,890

astronomy cast it takes a fact-based

737

00:30:57,700 --> 00:30:55,820

journey through the cosmos as it offers

738

00:31:00,400 --> 00:30:57,710

listeners weekly discussions on

739

00:31:03,310 --> 00:31:00,410

astronomical topics ranging from planets

740

00:31:05,620 --> 00:31:03,320

to cosmology hosted by Fraser Cain of

741

00:31:06,610 --> 00:31:05,630

Universe Today and myself dr. Pamela

742

00:31:09,280 --> 00:31:06,620

gave southern illinois university

743

00:31:11,170 --> 00:31:09,290

edwardsville this show brings the

744

00:31:13,600 --> 00:31:11,180

questions of an avid astronomy lover

745

00:31:15,700 --> 00:31:13,610

directly to an astronomer together

746

00:31:17,230 --> 00:31:15,710

Fraser and I explore what is known and

747

00:31:19,990 --> 00:31:17,240

being discovered about the universe

748

00:31:22,060 --> 00:31:20,000

around us join us each week as we take a

749

00:31:33,340 --> 00:31:22,070

fact space journey through the cosmos at

750

00:31:36,070 --> 00:31:33,350

astronomy cast calm here's a clip from

751
00:31:39,250 --> 00:31:36,080
the TV show the circle here in Australia

752
00:31:52,140 --> 00:31:39,260
on channel 10 where the panel discuss

753
00:31:55,950 --> 00:31:54,690
circle it's almost flu season and this

754
00:31:57,300 --> 00:31:55,960
year parents are getting some mixed

755
00:31:59,430 --> 00:31:57,310
messages about whether or not to give

756
00:32:01,470 --> 00:31:59,440
their kids a flu shot for her view on

757
00:32:09,600 --> 00:32:01,480
this issue we welcome back to the circle

758
00:32:11,040 --> 00:32:09,610
dr. uncle d for Daniel some experts

759
00:32:12,330 --> 00:32:11,050
saying yes you definitely should and

760
00:32:14,670 --> 00:32:12,340
summer saying you definitely shouldn't

761
00:32:16,890 --> 00:32:14,680
what's your call well look I think that

762
00:32:18,830 --> 00:32:16,900
most Australian doctors would be very

763
00:32:21,540 --> 00:32:18,840

much in favor of vaccinating kids

764

00:32:24,330 --> 00:32:21,550

against the flu especially given that we

765

00:32:27,050 --> 00:32:24,340

still have deaths and definitely quite a

766

00:32:30,630 --> 00:32:27,060

few hospitalizations in kids especially

767

00:32:33,360 --> 00:32:30,640

with flu-like or flu related illness

768

00:32:36,390 --> 00:32:33,370

yeah the controversies come up because

769

00:32:39,270 --> 00:32:36,400

last year with one particular brand of

770

00:32:41,820 --> 00:32:39,280

flu vaccination there was a higher risk

771

00:32:44,010 --> 00:32:41,830

of what we call febrile convulsions it

772

00:32:46,080 --> 00:32:44,020

was about one in every hundred kids

773

00:32:50,730 --> 00:32:46,090

vaccinated under the age of five or so

774

00:32:52,350 --> 00:32:50,740

now this is one particular brand and in

775

00:32:54,210 --> 00:32:52,360

Australia were quite lucky in that as

776

00:32:55,590 --> 00:32:54,220

soon as something like this happens the

777

00:32:58,980 --> 00:32:55,600

TDA the Therapeutic Goods Administration

778

00:33:02,100 --> 00:32:58,990

comes in they recall the batch and they

779

00:33:04,980 --> 00:33:02,110

decide why it happened and how we should

780

00:33:07,530 --> 00:33:04,990

say who safely proceed now it's deemed

781

00:33:09,930 --> 00:33:07,540

safe at the moment that we use the two

782

00:33:11,400 --> 00:33:09,940

other brands of flu vaccination but

783

00:33:13,530 --> 00:33:11,410

certainly that one brand that caused the

784

00:33:15,510 --> 00:33:13,540

problem we're not vaccinating kids

785

00:33:17,070 --> 00:33:15,520

anymore with that brand deeper the thing

786

00:33:18,660 --> 00:33:17,080

i always hear is the way the

787

00:33:21,690 --> 00:33:18,670

vaccinations are grown and sort of

788

00:33:23,610 --> 00:33:21,700

created is by using last year's flu so

789

00:33:25,680 --> 00:33:23,620

there's a whole new batch of yuckie

790

00:33:27,720 --> 00:33:25,690

strains of flu that we're not able to

791

00:33:29,130 --> 00:33:27,730

vaccinate against so it's a little bit

792

00:33:32,610 --> 00:33:29,140

pointless and it's a little bit like a

793

00:33:34,380 --> 00:33:32,620

placebo well we actually know that it

794

00:33:37,380 --> 00:33:34,390

definitely so there's very good research

795

00:33:39,990 --> 00:33:37,390

out to suggest that it does we are able

796

00:33:43,200 --> 00:33:40,000

to predict the strains based on we're

797

00:33:45,480 --> 00:33:43,210

very lucky because europe us they have

798

00:33:46,860 --> 00:33:45,490

the flu before we do and so based on

799

00:33:49,290 --> 00:33:46,870

that we're able to predict the strains

800

00:33:51,450 --> 00:33:49,300

that will most likely be the strains

801
00:33:54,600 --> 00:33:51,460
causing problems unfortunately the flu

802
00:33:56,520 --> 00:33:54,610
the virus changes constantly and so it

803
00:33:59,340 --> 00:33:56,530
changes its surface proteins which means

804
00:34:02,160 --> 00:33:59,350
if it changes and becomes what we call a

805
00:34:04,040 --> 00:34:02,170
pandemic or a new epidemic we can't

806
00:34:05,390 --> 00:34:04,050
actually predict those changes and so

807
00:34:09,440 --> 00:34:05,400
you know there is always a risk that

808
00:34:11,030 --> 00:34:09,450
there will be a new flu but even then

809
00:34:13,070 --> 00:34:11,040
the flu vaccine has been shown to

810
00:34:15,080 --> 00:34:13,080
decrease the severity of those new

811
00:34:18,350 --> 00:34:15,090
manats right yeah it's a bonus doubt

812
00:34:20,480 --> 00:34:18,360
anyone can get an immunization but who

813
00:34:21,980 --> 00:34:20,490

should be getting it yes so at the

814

00:34:24,800 --> 00:34:21,990

moment there's controversy because some

815

00:34:26,630 --> 00:34:24,810

experts are suggesting that we put the

816

00:34:28,970 --> 00:34:26,640

flu vaccination into the current

817

00:34:31,580 --> 00:34:28,980

immunization schedule for children now

818

00:34:33,350 --> 00:34:31,590

that isn't yet the case so whilst it's

819

00:34:35,210 --> 00:34:33,360

recommended for all Australians it's

820

00:34:37,340 --> 00:34:35,220

strongly recommended for certain groups

821

00:34:39,140 --> 00:34:37,350

who are at risk of significant

822

00:34:41,510 --> 00:34:39,150

complications so these are complications

823

00:34:43,490 --> 00:34:41,520

like pneumonia heart problems leave our

824

00:34:46,580 --> 00:34:43,500

problems blood problems because of the

825

00:34:48,710 --> 00:34:46,590

flu these people are anyone over the age

826

00:34:50,810 --> 00:34:48,720

of 65 they should definitely be getting

827

00:34:53,600 --> 00:34:50,820

the flu vaccine and they should be

828

00:34:56,510 --> 00:34:53,610

getting it free indigenous people over

829

00:34:58,070 --> 00:34:56,520

the age of 15 pregnant women and we know

830

00:35:01,010 --> 00:34:58,080

that pregnant women for some reason are

831

00:35:02,930 --> 00:35:01,020

more susceptible to the flu virus and

832

00:35:06,770 --> 00:35:02,940

that can be at any time during their

833

00:35:08,600 --> 00:35:06,780

pregnancy at all and finally anyone over

834

00:35:10,700 --> 00:35:08,610

the age of six months who has a chronic

835

00:35:13,340 --> 00:35:10,710

illness that puts them at that higher

836

00:35:16,360 --> 00:35:13,350

risk so that could include asthma it can

837

00:35:18,860 --> 00:35:16,370

include heart problems it can include

838

00:35:20,690 --> 00:35:18,870

immunity problems that happen like with

839

00:35:22,550 --> 00:35:20,700

diabetes and things so there are a lot

840

00:35:24,350 --> 00:35:22,560

of people in that group who would get a

841

00:35:26,660 --> 00:35:24,360

free vaccination so speak to your GP

842

00:35:30,050 --> 00:35:26,670

about whether or not that's appropriate

843

00:35:32,600 --> 00:35:30,060

for you yeah Georgie had a prim baby yes

844

00:35:34,670 --> 00:35:32,610

what should she get that Molly look

845

00:35:36,530 --> 00:35:34,680

about the age of six months she should

846

00:35:38,150 --> 00:35:36,540

have a really serious discussion with

847

00:35:40,490 --> 00:35:38,160

her GP as to whether or not that's the

848

00:35:42,920 --> 00:35:40,500

best thing for her and it also includes

849

00:35:45,380 --> 00:35:42,930

how much you're amongst other children

850

00:35:47,600 --> 00:35:45,390

how much you're amongst other people who

851
00:35:48,890 --> 00:35:47,610
might be a reservoir for infection how

852
00:35:50,750 --> 00:35:48,900
does it make you feel does it mean if

853
00:35:53,870 --> 00:35:50,760
you little groggy and yuck the flu

854
00:35:55,850 --> 00:35:53,880
vaccination the flu vaccination can give

855
00:35:58,010 --> 00:35:55,860
you what we call a flu-like illness it's

856
00:36:00,050 --> 00:35:58,020
it's not a live virus that can't give

857
00:36:01,910 --> 00:36:00,060
you the flu even if you get a little bit

858
00:36:04,030 --> 00:36:01,920
of favor a little bit of you know

859
00:36:06,230 --> 00:36:04,040
feeling unwell bit of a cough cold

860
00:36:08,810 --> 00:36:06,240
you're not contagious so you're not

861
00:36:10,280 --> 00:36:08,820
going to spread that on to anyone and

862
00:36:12,440 --> 00:36:10,290
that tends to last two or three days

863
00:36:15,050 --> 00:36:12,450

okay yeah I was going to ask exactly the

864

00:36:17,390 --> 00:36:15,060

same question because it is it is it in

865

00:36:19,990 --> 00:36:17,400

fact a small portion

866

00:36:23,570 --> 00:36:20,000

of the flu no it's a it's a change

867

00:36:26,480 --> 00:36:23,580

surface protein so it's been completely

868

00:36:28,730 --> 00:36:26,490

deactivated and it's not a live virus at

869

00:36:30,620 --> 00:36:28,740

all so why do you get a little bit sick

870

00:36:33,410 --> 00:36:30,630

and you get it part of your immune

871

00:36:36,710 --> 00:36:33,420

response so by giving a small portion of

872

00:36:38,420 --> 00:36:36,720

a virus or a change portion of a virus

873

00:36:40,310 --> 00:36:38,430

we're trying to stimulate the immune

874

00:36:43,010 --> 00:36:40,320

response and in doing so unfortunately

875

00:36:45,680 --> 00:36:43,020

you can get those side effects which

876
00:36:46,970 --> 00:36:45,690
again much less severe than the actual

877
00:36:49,400 --> 00:36:46,980
flu the actual flow is quite

878
00:36:52,280 --> 00:36:49,410
debilitating it takes about 7 to 10 days

879
00:36:54,680 --> 00:36:52,290
to get better from it and so it's a very

880
00:37:16,360 --> 00:36:54,690
specific quite debilitating illness and

881
00:37:20,780 --> 00:37:19,190
hi I'm on it oh yeah Chris 10 or even

882
00:37:22,520 --> 00:37:20,790
tips advice on lotion lifted off the

883
00:37:24,920 --> 00:37:22,530
skeptic zone I'm skeptical in la liga

884
00:37:26,900 --> 00:37:24,930
the VINs not a blog gear or pub def a

885
00:37:29,210 --> 00:37:26,910
podcast of reading and skip sistemas

886
00:37:31,160 --> 00:37:29,220
leaks in this drama central data skips

887
00:37:33,380 --> 00:37:31,170
estas mo or hyper besides the deeps

888
00:37:35,270 --> 00:37:33,390

corner Chiclets and calendar / activated

889

00:37:36,860 --> 00:37:35,280

or link eternity research it skips this

890

00:37:38,270 --> 00:37:36,870

blog in okla 30 I'm layer or the biscuit

891

00:37:40,190 --> 00:37:38,280

headers hefty performance so stick

892

00:37:53,810 --> 00:37:40,200

kingdom of their Todd Rosa escapes his

893

00:37:56,420 --> 00:37:53,820

dogs hello if only we could look into

894

00:37:59,030 --> 00:37:56,430

the future it's a very interesting topic

895

00:38:02,360 --> 00:37:59,040

and dr. rachey and I a few weeks ago

896

00:38:04,910 --> 00:38:02,370

went to radio 2 GB and discussed this

897

00:38:14,420 --> 00:38:04,920

very topic with our good friend Glen

898

00:38:16,670 --> 00:38:14,430

wheeler Natalie pleaders it's the story

899

00:38:19,640 --> 00:38:16,680

is just getting worse quite frankly as

900

00:38:21,440 --> 00:38:19,650

the death toll rises some 140 550

901
00:38:24,020 --> 00:38:21,450
confirmed dead and still 200 missing

902
00:38:26,630 --> 00:38:24,030
it's it's just an absolute disaster and

903
00:38:27,980 --> 00:38:26,640
in this country alone we've seen parts

904
00:38:30,290 --> 00:38:27,990
of the country ravaged by bush fires

905
00:38:33,440 --> 00:38:30,300
we've had floods we've had the recent

906
00:38:35,150 --> 00:38:33,450
cyclone of course and then on tuesday of

907
00:38:37,250 --> 00:38:35,160
last week a devastating earthquake which

908
00:38:38,780 --> 00:38:37,260
is all but destroyed christchurch

909
00:38:40,970 --> 00:38:38,790
they're saying now a third of the city

910
00:38:42,800 --> 00:38:40,980
will have to be rebuilt on the

911
00:38:44,090 --> 00:38:42,810
international scene of courses there's

912
00:38:45,860 --> 00:38:44,100
been other upheaval there's been

913
00:38:49,010 --> 00:38:45,870

civilian revolutions on a major scale in

914

00:38:52,100 --> 00:38:49,020

Tunisia in Egypt and in Iran so where

915

00:38:54,260 --> 00:38:52,110

are the modern day Nostradamus why

916

00:38:56,810 --> 00:38:54,270

haven't the Guru's of psychic wizardry

917

00:38:58,640 --> 00:38:56,820

been able to foresee such events and be

918

00:39:00,050 --> 00:38:58,650

able to warn people of the impending

919

00:39:03,040 --> 00:39:00,060

dangers and thereby help save lives

920

00:39:05,930 --> 00:39:03,050

surely if the people who purport to be

921

00:39:08,390 --> 00:39:05,940

experts are being able to see the future

922

00:39:10,610 --> 00:39:08,400

and tell us what's going to happen in

923

00:39:13,160 --> 00:39:10,620

the next 12 months surely if they have

924

00:39:14,720 --> 00:39:13,170

fair dinkum then disasters of this girl

925

00:39:17,150 --> 00:39:14,730

should appear on their radar I would

926

00:39:18,680 --> 00:39:17,160

have thought so anyway dr. Rocha Dunlop

927

00:39:20,780 --> 00:39:18,690

and Richard Saunders from the Australian

928

00:39:22,160 --> 00:39:20,790

skeptics join us live in the studio to

929

00:39:24,080 --> 00:39:22,170

discuss it a little bit more detail hi

930

00:39:26,930 --> 00:39:24,090

guys thank you for coming in high Glen

931

00:39:28,479 --> 00:39:26,940

good evening them um how is it that they

932

00:39:32,180 --> 00:39:28,489

can talk to the dead for

933

00:39:34,249 --> 00:39:32,190

fluctuations in currency tell us about

934

00:39:36,920 --> 00:39:34,259

you know Hollywood marriages which they

935

00:39:38,690 --> 00:39:36,930

think will survive or fail according to

936

00:39:41,630 --> 00:39:38,700

how they feel at the time and yet it

937

00:39:43,370 --> 00:39:41,640

would seem to my my reckoning none of

938

00:39:44,989 --> 00:39:43,380

this has been predicted and we're only

939

00:39:47,749 --> 00:39:44,999

we're less than two months into the year

940

00:39:50,359 --> 00:39:47,759

it's been an amazing year as you're

941

00:39:53,059 --> 00:39:50,369

saying newswise just staggering in fact

942

00:39:54,620 --> 00:39:53,069

and you know what when I don't like to

943

00:39:57,049 --> 00:39:54,630

use the word prediction because it's not

944

00:39:59,690 --> 00:39:57,059

a good word it's not accurate I think

945

00:40:00,979 --> 00:39:59,700

the word guessing is the best word we've

946

00:40:03,559 --> 00:40:00,989

got people out there who call themselves

947

00:40:04,999 --> 00:40:03,569

psychics and clairvoyants and every year

948

00:40:06,670 --> 00:40:05,009

at the end of the year towards the end

949

00:40:09,589 --> 00:40:06,680

of the year though we'll make lots of

950

00:40:12,680 --> 00:40:09,599

gases like we all can make lots of

951
00:40:15,049 --> 00:40:12,690
guesses some of those guesses will come

952
00:40:16,999 --> 00:40:15,059
true some of those guesses will be sort

953
00:40:19,430 --> 00:40:17,009
of a bit iffy but they'll say they're

954
00:40:22,069 --> 00:40:19,440
true and most of their guesses in fact

955
00:40:25,009 --> 00:40:22,079
last year last year in their own

956
00:40:26,329 --> 00:40:25,019
magazine the psychics directory I mean

957
00:40:29,420 --> 00:40:26,339
the year before they made all sorts of

958
00:40:31,069 --> 00:40:29,430
predictions for 2010 and we carefully

959
00:40:34,029 --> 00:40:31,079
analyzed all their predictions

960
00:40:38,509 --> 00:40:34,039
Australia's top psychics they got

961
00:40:40,370 --> 00:40:38,519
ninety-three percent wrong so if someone

962
00:40:41,749 --> 00:40:40,380
comes along cousins calls themselves a

963
00:40:43,579 --> 00:40:41,759

psychic clairvoyant and they've got

964

00:40:45,799 --> 00:40:43,589

predictions or guesses for the next year

965

00:40:47,719 --> 00:40:45,809

you can bet your next hot dinner but

966

00:40:50,839 --> 00:40:47,729

they will be something like 90 or eighty

967

00:40:52,640 --> 00:40:50,849

ninety percent wrong absolutely wrong so

968

00:40:54,799 --> 00:40:52,650

it's no surprise course they can't see

969

00:40:57,799 --> 00:40:54,809

these major events coming so so how did

970

00:41:00,859 --> 00:40:57,809

okay but on that basis though how do

971

00:41:03,049 --> 00:41:00,869

they and I did try to make contact with

972

00:41:06,259 --> 00:41:03,059

a couple of you know prominent

973

00:41:08,719 --> 00:41:06,269

well-known prominent psychics to come on

974

00:41:11,269 --> 00:41:08,729

the program tonight and be available by

975

00:41:13,789 --> 00:41:11,279

phone to to basically you know counter

976

00:41:15,109 --> 00:41:13,799

the argument that they can't see the

977

00:41:16,549 --> 00:41:15,119

future because if they could that would

978

00:41:19,789 --> 00:41:16,559

have predicted some of this stuff how

979

00:41:22,130 --> 00:41:19,799

can they purport them to be beside kick

980

00:41:25,819 --> 00:41:22,140

when this sort of stuff on a major major

981

00:41:27,380 --> 00:41:25,829

scale is it happened within two months

982

00:41:28,969 --> 00:41:27,390

of the year I mean it was only December

983

00:41:30,410 --> 00:41:28,979

that we had anybody who was anybody in

984

00:41:32,390 --> 00:41:30,420

the psychic world saying here are my

985

00:41:34,339 --> 00:41:32,400

predictions for 2011 oh and by the way

986

00:41:36,650 --> 00:41:34,349

if you want to buy them it's 55 cents a

987

00:41:38,630 --> 00:41:36,660

minute that's right well the problem is

988

00:41:40,130 --> 00:41:38,640

there nobody checks up on them I mean

989

00:41:41,960 --> 00:41:40,140

wit really we're probably the only

990

00:41:44,599 --> 00:41:41,970

people that bother to read

991

00:41:46,820 --> 00:41:44,609

the 2009 Australian psychics directory

992

00:41:49,370 --> 00:41:46,830

and then look back and see if what

993

00:41:50,870 --> 00:41:49,380

they've said about 2010 is correct so

994

00:41:52,760 --> 00:41:50,880

every year they're sort of wheeled out

995

00:41:55,430 --> 00:41:52,770

onto a current affair or the you know

996

00:41:56,900 --> 00:41:55,440

the the shows that do that stuff at the

997

00:41:58,520 --> 00:41:56,910

end of the year but then nobody goes

998

00:42:00,560 --> 00:41:58,530

back to check so if nobody's going to

999

00:42:03,589 --> 00:42:00,570

say hey you didn't get it right then no

1000

00:42:05,540 --> 00:42:03,599

one knows so it doesn't matter I I saw

1001
00:42:07,880 --> 00:42:05,550
you sent me through the top predictions

1002
00:42:09,560 --> 00:42:07,890
for 2011 which is really quite

1003
00:42:12,500 --> 00:42:09,570
fascinating the one that I thought was

1004
00:42:14,450 --> 00:42:12,510
just outstanding was by a fella called

1005
00:42:16,849 --> 00:42:14,460
Brett Vollis who I've never heard of but

1006
00:42:19,099 --> 00:42:16,859
obviously in some part of the world he

1007
00:42:20,599 --> 00:42:19,109
must be famous I guess who says Prince

1008
00:42:22,040 --> 00:42:20,609
William and Kate Middleton will confirm

1009
00:42:25,870 --> 00:42:22,050
they are expecting not long after their

1010
00:42:29,089 --> 00:42:25,880
marriage well stop the past amazing

1011
00:42:32,890 --> 00:42:29,099
oppressors Oh hold the phone in other

1012
00:42:35,480 --> 00:42:32,900
news in other news Glenn circles around

1013
00:42:37,460 --> 00:42:35,490

yeah but as you said before this stuff

1014

00:42:39,109 --> 00:42:37,470

is not helpful you know hang on hang on

1015

00:42:41,000 --> 00:42:39,119

no Roger don't get too carried away

1016

00:42:42,950 --> 00:42:41,010

because he goes on to say after he says

1017

00:42:44,839 --> 00:42:42,960

that they are expecting not long after

1018

00:42:47,180 --> 00:42:44,849

their marriage he goes on to say twins

1019

00:42:52,010 --> 00:42:47,190

show up as I wait for this great

1020

00:42:54,740 --> 00:42:52,020

possibility that mean it's going to

1021

00:42:56,270 --> 00:42:54,750

happen or not well I think he's right

1022

00:42:59,030 --> 00:42:56,280

though he is a hundred percent correct

1023

00:43:00,829 --> 00:42:59,040

it's possible it's possibility that

1024

00:43:02,599 --> 00:43:00,839

twins will show up if they do confirm

1025

00:43:05,329 --> 00:43:02,609

they're expecting not long after their

1026
00:43:07,339 --> 00:43:05,339
marriage now not long could be two years

1027
00:43:09,349 --> 00:43:07,349
it could be anything but again if it

1028
00:43:11,270 --> 00:43:09,359
happens if by the end of the year we

1029
00:43:13,099 --> 00:43:11,280
discover that they're expecting twins

1030
00:43:15,440 --> 00:43:13,109
they'll be crowing the psychics will be

1031
00:43:18,079 --> 00:43:15,450
crying if it doesn't happen who's who

1032
00:43:22,190 --> 00:43:18,089
cares it's gone it vaporizes but the one

1033
00:43:24,920 --> 00:43:22,200
that caught my eye was this year someone

1034
00:43:26,750 --> 00:43:24,930
by the name of jade sky made this

1035
00:43:27,770 --> 00:43:26,760
prediction I mean that at the end of

1036
00:43:30,650 --> 00:43:27,780
last year they made this prediction

1037
00:43:34,940 --> 00:43:30,660
major flooding will occur for the

1038
00:43:36,710 --> 00:43:34,950

eastern seaboard of australia until i

1039

00:43:39,079 --> 00:43:36,720

looked at the website of the bureau of

1040

00:43:42,470 --> 00:43:39,089

meteorology and i discovered that major

1041

00:43:45,050 --> 00:43:42,480

flooding occurs every year on the

1042

00:43:47,630 --> 00:43:45,060

eastern seaboard of australia I mean

1043

00:43:49,370 --> 00:43:47,640

it's similar Richard to in 2009 one of

1044

00:43:51,020 --> 00:43:49,380

the psychic said there's going to be an

1045

00:43:54,680 --> 00:43:51,030

earthquake on the San Andreas Fault Line

1046

00:43:57,349 --> 00:43:54,690

Glenn now when isn't it

1047

00:44:00,470 --> 00:43:57,359

I mean at the fault line boy it's called

1048

00:44:03,410 --> 00:44:00,480

the sentence hold on but again I kept

1049

00:44:05,270 --> 00:44:03,420

coming back to this the very serious

1050

00:44:07,520 --> 00:44:05,280

aspect of all of this but right now as

1051

00:44:10,760 --> 00:44:07,530

we sit here and talk about this that

1052

00:44:13,400 --> 00:44:10,770

Christ Church has been decimated by an

1053

00:44:15,530 --> 00:44:13,410

earthquake yep and in none of this

1054

00:44:17,420 --> 00:44:15,540

literature that you've got which you

1055

00:44:18,920 --> 00:44:17,430

know it covers a whole bunch of hot

1056

00:44:20,720 --> 00:44:18,930

predictions for 2011 with so-called

1057

00:44:22,670 --> 00:44:20,730

experts yeah not one of them said

1058

00:44:25,220 --> 00:44:22,680

christchurch new zealand or even

1059

00:44:28,220 --> 00:44:25,230

somewhere in the southern South Pacific

1060

00:44:30,849 --> 00:44:28,230

ya know it well of course as sad as

1061

00:44:33,589 --> 00:44:30,859

Christchurch is and it's desperately sad

1062

00:44:35,240 --> 00:44:33,599

Rachel you've got one there just to

1063

00:44:39,620 --> 00:44:35,250

remind us all that there was a huge

1064

00:44:42,650 --> 00:44:39,630

earthquake in Haiti not so long ago last

1065

00:44:44,839 --> 00:44:42,660

year and as sad as the death toll in New

1066

00:44:49,400 --> 00:44:44,849

Zealand is the death toll in Haiti was

1067

00:44:52,700 --> 00:44:49,410

many many many ways 230,000 I mean you

1068

00:44:54,710 --> 00:44:52,710

can't I'm please i'm not a comparator

1069

00:44:57,410 --> 00:44:54,720

but they didn't see that at all look the

1070

00:44:58,910 --> 00:44:57,420

bottom line is glen these people make

1071

00:45:00,650 --> 00:44:58,920

their living by making lots of

1072

00:45:03,589 --> 00:45:00,660

predictions look where there's that word

1073

00:45:05,390 --> 00:45:03,599

lots of guesses some they'll do you know

1074

00:45:07,579 --> 00:45:05,400

they'll try and get it really specific a

1075

00:45:10,099 --> 00:45:07,589

lot of them are vague and year after

1076
00:45:11,780 --> 00:45:10,109
year after year who cares they just keep

1077
00:45:14,390 --> 00:45:11,790
making their money and making these

1078
00:45:16,640 --> 00:45:14,400
these wild guesses in some situations

1079
00:45:18,410 --> 00:45:16,650
joined in the studio by dr. dr. Rachel

1080
00:45:20,240 --> 00:45:18,420
Dunlop and Richard Saunders from the

1081
00:45:22,579 --> 00:45:20,250
Australian skeptics if you if you have a

1082
00:45:24,079 --> 00:45:22,589
comment or a question that you'd like to

1083
00:45:28,430 --> 00:45:24,089
put to us and jump on the phone right

1084
00:45:30,200 --> 00:45:28,440
now 131 873 is the number 25 29 all

1085
00:45:32,660 --> 00:45:30,210
right Rachel Dunlop and Richard Saunders

1086
00:45:34,550 --> 00:45:32,670
my guests in the studio just talking

1087
00:45:38,660 --> 00:45:34,560
about the fact that we've had all of

1088
00:45:40,790 --> 00:45:38,670

these major earth-shattering devastating

1089

00:45:42,079 --> 00:45:40,800

things happen in less than two months of

1090

00:45:44,569 --> 00:45:42,089

the year and yet none of them saw it

1091

00:45:47,630 --> 00:45:44,579

coming no of course not I mean let's

1092

00:45:49,700 --> 00:45:47,640

let's look at this real in their

1093

00:45:51,920 --> 00:45:49,710

realistic real glasses on here Glenn

1094

00:45:53,120 --> 00:45:51,930

people can't look into the future people

1095

00:45:55,220 --> 00:45:53,130

can make lots of guesses they can make

1096

00:45:56,960 --> 00:45:55,230

educated guesses you know they can

1097

00:45:58,190 --> 00:45:56,970

predict the market that's that's a good

1098

00:46:00,079 --> 00:45:58,200

use of the water we keep coming back to

1099

00:46:01,640 --> 00:46:00,089

the old let's save our Factory and if it

1100

00:46:03,260 --> 00:46:01,650

feels good for you and you like the

1101
00:46:04,970 --> 00:46:03,270
sound of what you're getting go for it

1102
00:46:06,410 --> 00:46:04,980
because one of the one of the psychics

1103
00:46:07,760 --> 00:46:06,420
that I did contact today I left a number

1104
00:46:10,100 --> 00:46:07,770
for him to call

1105
00:46:11,570 --> 00:46:10,110
me I know it on his website says you

1106
00:46:13,760 --> 00:46:11,580
know do apart from all the other

1107
00:46:15,350 --> 00:46:13,770
business about how you can tell you

1108
00:46:16,610 --> 00:46:15,360
what's going on in your life he says do

1109
00:46:18,680 --> 00:46:16,620
you need clarity and guidance in your

1110
00:46:20,570 --> 00:46:18,690
life today if so call one of my team of

1111
00:46:22,400 --> 00:46:20,580
world-rated readers now for a live

1112
00:46:24,260 --> 00:46:22,410
session it's available I should do a

1113
00:46:26,570 --> 00:46:24,270

live right here if so call one of my

1114

00:46:27,650 --> 00:46:26,580

team of well rated readers now for a

1115

00:46:29,510 --> 00:46:27,660

live session it's available

1116

00:46:31,400 --> 00:46:29,520

twenty-four-seven choose from astrology

1117

00:46:33,260 --> 00:46:31,410

Tarot numerology and more whichever

1118

00:46:35,390 --> 00:46:33,270

speaks to your inner wisdom get your

1119

00:46:36,920 --> 00:46:35,400

first 10 minutes for only 59 cents a

1120

00:46:40,310 --> 00:46:36,930

minute by calling just a little bit and

1121

00:46:42,680 --> 00:46:40,320

then only three dollars 95 per minute

1122

00:46:44,720 --> 00:46:42,690

for credit card callers no credit card

1123

00:46:46,220 --> 00:46:44,730

then call us on our new number deducted

1124

00:46:48,830 --> 00:46:46,230

it to speak to the next available reader

1125

00:46:50,750 --> 00:46:48,840

for dollars 95 per minute higher rates

1126
00:46:53,450 --> 00:46:50,760
apply to calls made from a mobile phone

1127
00:46:55,160 --> 00:46:53,460
I just SAT there looked at that when I

1128
00:46:58,370 --> 00:46:55,170
doing this afternoon i thought you know

1129
00:47:00,650 --> 00:46:58,380
at 59 cents a minute and then 395 a

1130
00:47:02,330 --> 00:47:00,660
minute for credit card callers so you

1131
00:47:04,220 --> 00:47:02,340
get the first 10 minutes for 59 cents a

1132
00:47:06,560 --> 00:47:04,230
minute so in that first 10 minutes they

1133
00:47:08,090 --> 00:47:06,570
would be trying to string it out and

1134
00:47:10,340 --> 00:47:08,100
wring it out and draw you in so you've

1135
00:47:12,200 --> 00:47:10,350
spent five dollars 90 yeah out of 10

1136
00:47:13,670 --> 00:47:12,210
minutes and then you're paying three

1137
00:47:15,350 --> 00:47:13,680
dollars 95 a minute so let's say you

1138
00:47:16,570 --> 00:47:15,360

spend in another 10 minutes so a 20

1139

00:47:19,730 --> 00:47:16,580

minute call wouldn't be unrealistic

1140

00:47:23,360 --> 00:47:19,740

another 10 minutes is going to be 3950

1141

00:47:25,700 --> 00:47:23,370

on top of the five dollars 90 so you've

1142

00:47:28,720 --> 00:47:25,710

spent 45 bucks they could ring us it's a

1143

00:47:30,860 --> 00:47:28,730

lot cheaper we'll have a chat to them I

1144

00:47:33,920 --> 00:47:30,870

still come back to the fact that you

1145

00:47:36,140 --> 00:47:33,930

know in the in the common sense of

1146

00:47:38,000 --> 00:47:36,150

day-to-day life if these people really

1147

00:47:39,830 --> 00:47:38,010

could see the future they should be

1148

00:47:41,300 --> 00:47:39,840

waving big flags from the top of

1149

00:47:42,740 --> 00:47:41,310

buildings going guys get out of

1150

00:47:44,840 --> 00:47:42,750

Christchurch there's an earthquake on

1151

00:47:47,390 --> 00:47:44,850

its way get out of North Queensland

1152

00:47:49,460 --> 00:47:47,400

there's a cyclone yeah yeah we've got

1153

00:47:53,420 --> 00:47:49,470

some calls hi Margaret no you're not

1154

00:47:57,410 --> 00:47:53,430

well thank you I mean to see if there's

1155

00:48:04,730 --> 00:47:57,420

any evidence that a premonition can be

1156

00:48:09,080 --> 00:48:04,740

true I'm a skeptic but monday I have a

1157

00:48:12,170 --> 00:48:09,090

friend who is not in any way I think

1158

00:48:14,510 --> 00:48:12,180

she's got powers or anything and she

1159

00:48:17,870 --> 00:48:14,520

rang me quite distressed because she

1160

00:48:21,050 --> 00:48:17,880

said she felt fearful and I said are you

1161

00:48:23,150 --> 00:48:21,060

frightened of somebody and she said no

1162

00:48:27,350 --> 00:48:23,160

that what's the fear about she said I

1163

00:48:32,450 --> 00:48:27,360

don't know I'm just feel like heavy and

1164

00:48:36,590 --> 00:48:32,460

fearful and the very next day we had the

1165

00:48:39,770 --> 00:48:36,600

earthquake in christchurch and I don't

1166

00:48:41,960 --> 00:48:39,780

know whether it was that or what do you

1167

00:48:45,140 --> 00:48:41,970

believe in premonitions well that's

1168

00:48:46,670 --> 00:48:45,150

drawing a very long bow indeed I mean

1169

00:48:48,980 --> 00:48:46,680

she could you could have been related

1170

00:48:52,310 --> 00:48:48,990

that to any sadness around the world or

1171

00:48:54,980 --> 00:48:52,320

any bad event people have uneasy

1172

00:48:56,540 --> 00:48:54,990

feelings from time to time we all do

1173

00:49:00,230 --> 00:48:56,550

it's natural it's it's part of being

1174

00:49:02,750 --> 00:49:00,240

human every now and then one of those

1175

00:49:04,880 --> 00:49:02,760

uneasy feelings will hook up with

1176
00:49:06,890 --> 00:49:04,890
something maybe to have in our personal

1177
00:49:09,560 --> 00:49:06,900
lives all around the world very

1178
00:49:10,850 --> 00:49:09,570
difficult absolutely yes there's also

1179
00:49:12,950 --> 00:49:10,860
something very interesting called the

1180
00:49:14,330 --> 00:49:12,960
law of very large numbers if you have a

1181
00:49:15,650 --> 00:49:14,340
population especially in the United

1182
00:49:18,020 --> 00:49:15,660
States of millions and millions of

1183
00:49:20,690 --> 00:49:18,030
people every night someone will dream

1184
00:49:22,520 --> 00:49:20,700
about a close relative dying and so on

1185
00:49:24,380 --> 00:49:22,530
it'll happen because it has to happen

1186
00:49:26,360 --> 00:49:24,390
because of the huge numbers involved and

1187
00:49:28,010 --> 00:49:26,370
you get to hear about it they say on the

1188
00:49:29,720 --> 00:49:28,020

news today this woman dreamt about her

1189

00:49:32,420 --> 00:49:29,730

husband dying any did and everyone goes

1190

00:49:34,040 --> 00:49:32,430

OH but which is a bit library when

1191

00:49:35,270 --> 00:49:34,050

people say things happen in threes it's

1192

00:49:36,350 --> 00:49:35,280

terrible I've just had a I've learned of

1193

00:49:37,640 --> 00:49:36,360

a death of a friend I've learned of

1194

00:49:39,530 --> 00:49:37,650

somebody else that's been diagnosed with

1195

00:49:41,210 --> 00:49:39,540

cancer I'm hating to see what the third

1196

00:49:42,650 --> 00:49:41,220

ones go to be and you've only got to

1197

00:49:43,970 --> 00:49:42,660

think very quickly and there'll be a

1198

00:49:45,620 --> 00:49:43,980

third thing you can always think of a

1199

00:49:47,180 --> 00:49:45,630

third yeah it's not her it's not hard

1200

00:49:48,860 --> 00:49:47,190

but if there's not eventually you'll

1201

00:49:50,600 --> 00:49:48,870

forget it yeah yeah you only ever

1202

00:49:52,640 --> 00:49:50,610

remember when there are three going not

1203

00:49:54,320 --> 00:49:52,650

when there are no theories exactly

1204

00:49:59,060 --> 00:49:54,330

exactly my go thank you for the call hi

1205

00:50:01,100 --> 00:49:59,070

Donna oh hi Glenn was wondering why you

1206

00:50:04,010 --> 00:50:01,110

haven't got a a psychic in there because

1207

00:50:07,850 --> 00:50:04,020

I think and with your psyche perdition's

1208

00:50:09,590 --> 00:50:07,860

I lie in bed and laugh but because

1209

00:50:11,930 --> 00:50:09,600

there's only one to nine numbers in

1210

00:50:14,300 --> 00:50:11,940

numerology and there's a master number

1211

00:50:15,500 --> 00:50:14,310

of an 11 and a 20 tired yeah I can

1212

00:50:17,930 --> 00:50:15,510

answer your question Donna by saying

1213

00:50:19,640 --> 00:50:17,940

this that I tried and I said before i

1214

00:50:21,470 --> 00:50:19,650

actually have said in this chat i've had

1215

00:50:23,900 --> 00:50:21,480

with these guys tonight that i did put

1216

00:50:25,460 --> 00:50:23,910

the call out to to a number of psychics

1217

00:50:28,370 --> 00:50:25,470

to try and get them on the show tonight

1218

00:50:30,260 --> 00:50:28,380

to counter the argument so i have do

1219

00:50:32,840 --> 00:50:30,270

want me to leave a number of the New

1220

00:50:33,970 --> 00:50:32,850

South Wales carkeek of the year for 2007

1221

00:50:35,470 --> 00:50:33,980

2009

1222

00:50:38,260 --> 00:50:35,480

well you might be surprised to learn

1223

00:50:39,760 --> 00:50:38,270

that I believe one of the one of the

1224

00:50:41,560 --> 00:50:39,770

numbers that I did contact today no

1225

00:50:44,109 --> 00:50:41,570

names no pack drill was the New South

1226

00:50:45,460 --> 00:50:44,119

Wales sake of the Year 2011 I thought it

1227

00:50:47,080 --> 00:50:45,470

was far more relevant than the one from

1228

00:50:48,970 --> 00:50:47,090

two thousand eight and two thousand so

1229

00:50:50,109 --> 00:50:48,980

thank you donna for that but i did leave

1230

00:50:51,670 --> 00:50:50,119

a message and i didn't get a return

1231

00:50:52,990 --> 00:50:51,680

phone call nonetheless maybe they could

1232

00:50:54,250 --> 00:50:53,000

predict what was going to happen they

1233

00:50:57,130 --> 00:50:54,260

should have known that Glenn wanted them

1234

00:50:58,840 --> 00:50:57,140

to come into it guys thank you for

1235

00:51:00,340 --> 00:50:58,850

dropping by two words you just have a

1236

00:51:02,590 --> 00:51:00,350

chat about that I just thought that in

1237

00:51:03,760 --> 00:51:02,600

the in the you know it's one of those

1238

00:51:04,780 --> 00:51:03,770

mixed subjects because in the

1239

00:51:06,040 --> 00:51:04,790

seriousness of what's happening in

1240

00:51:07,960 --> 00:51:06,050

Christchurch at the moment it's just

1241

00:51:10,450 --> 00:51:07,970

just interesting to be able to draw that

1242

00:51:12,790 --> 00:51:10,460

parallel back again to say ok it's all

1243

00:51:14,800 --> 00:51:12,800

well and good for us to look into the

1244

00:51:17,050 --> 00:51:14,810

future and be driven by what psychics

1245

00:51:18,310 --> 00:51:17,060

tell us as yeah that happened the bottom

1246

00:51:19,810 --> 00:51:18,320

line is look if you want to look at

1247

00:51:22,420 --> 00:51:19,820

these magazines and see what the year

1248

00:51:24,609 --> 00:51:22,430

has install please do it with with humor

1249

00:51:27,040 --> 00:51:24,619

and a grain of salt and no it's written

1250

00:51:29,800 --> 00:51:27,050

for entertainment purposes only it is

1251
00:51:31,300 --> 00:51:29,810
not real people cannot look magically

1252
00:51:33,730 --> 00:51:31,310
into the future that has not happened

1253
00:51:35,830 --> 00:51:33,740
and pluck things out and get it

1254
00:51:37,450 --> 00:51:35,840
accurately right except after eleven

1255
00:51:40,060 --> 00:51:37,460
o'clock on this program of course and

1256
00:51:41,500 --> 00:51:40,070
that would be glenn whelan yes who

1257
00:51:44,740 --> 00:51:41,510
hasn't twittered I follow you on twitter

1258
00:51:47,470 --> 00:51:44,750
Glenn what's going on I don't I don't

1259
00:51:49,990 --> 00:51:47,480
tweet I don't have time thanks thanks

1260
00:51:51,640 --> 00:51:50,000
for the observation on the list Rachel

1261
00:51:53,230 --> 00:51:51,650
that dr. Rachel done up and Richard

1262
00:51:55,090 --> 00:51:53,240
Saunders from the Australian skeptics

1263
00:51:58,030 --> 00:51:55,100

and you can check out their website if

1264

00:52:00,730 --> 00:51:58,040

you want the skipped across elliptical

1265

00:52:08,080 --> 00:52:00,740

dodo you www shipping to the cakes with

1266

00:52:10,120 --> 00:52:08,090

a k.com dot aight thanks yours did you

1267

00:52:12,340 --> 00:52:10,130

know Jeff wag participated in an alien

1268

00:52:14,230 --> 00:52:12,350

psychic challenge did you know that

1269

00:52:16,420 --> 00:52:14,240

George Rob is an interstellar singing

1270

00:52:18,970 --> 00:52:16,430

sensation for these and other stories

1271

00:52:21,750 --> 00:52:18,980

you won't hear on the skeptic zone go to

1272

00:52:24,820 --> 00:52:21,760

the bolingbrook babbler that's ww

1273

00:52:27,400 --> 00:52:24,830

bolingbrook babbler com if you have any

1274

00:52:29,710 --> 00:52:27,410

doubts just remember this the SG you

1275

00:52:32,290 --> 00:52:29,720

couldn't debunk any of our stories even

1276
00:52:33,609 --> 00:52:32,300
when we offer them five dollars so read

1277
00:52:39,880 --> 00:52:33,619
the bolingbrook babbler for the

1278
00:52:41,980 --> 00:52:39,890
unbelievable truth that's ww bol ing BR

1279
00:52:53,560 --> 00:52:41,990
00 k be

1280
00:52:55,720 --> 00:52:53,570
a BBL we are calm he is former chief

1281
00:52:58,570 --> 00:52:55,730
executive officer of Australian skeptics

1282
00:53:02,050 --> 00:52:58,580
Barry Williams talking about our famous

1283
00:53:04,690 --> 00:53:02,060
bent spoon award the award given to the

1284
00:53:12,520 --> 00:53:04,700
most preposterous piece of paranormal or

1285
00:53:14,080 --> 00:53:12,530
pseudo scientific people for those who

1286
00:53:16,690 --> 00:53:14,090
are distinguished in the arts and

1287
00:53:20,320 --> 00:53:16,700
sciences there are any number of awards

1288
00:53:22,960 --> 00:53:20,330

the Nobel Prize the Archibald Prize the

1289

00:53:26,710 --> 00:53:22,970

Booker Prize the Eureka prize the

1290

00:53:29,020 --> 00:53:26,720

luggage and many others but let's face

1291

00:53:31,270 --> 00:53:29,030

it there are at least as many cranks

1292

00:53:33,820 --> 00:53:31,280

charlatans and crackpots in the world as

1293

00:53:35,640 --> 00:53:33,830

there are scientists and artists so why

1294

00:53:39,820 --> 00:53:35,650

should they miss out on the big dongs

1295

00:53:43,030 --> 00:53:39,830

that is why back in 1985 we instituted

1296

00:53:45,700 --> 00:53:43,040

the annual bent spoon award the award

1297

00:53:47,800 --> 00:53:45,710

itself is quite a work of art it

1298

00:53:50,280 --> 00:53:47,810

consists of a tastefully bent dessert

1299

00:53:53,590 --> 00:53:50,290

spoon appended lead by psychic forces

1300

00:53:55,450 --> 00:53:53,600

plated with gold originating or so we

1301

00:53:58,599 --> 00:53:55,460

have been told from lesser does lost

1302

00:54:00,520 --> 00:53:58,609

reef and mounted on a polished base made

1303

00:54:03,790 --> 00:54:00,530

from wood that we have no reason to

1304

00:54:06,190 --> 00:54:03,800

believe is not from Noah's Ark curiously

1305

00:54:08,109 --> 00:54:06,200

none of the past winners has managed to

1306

00:54:10,510 --> 00:54:08,119

extract this handsome trophy from our

1307

00:54:14,740 --> 00:54:10,520

care which we stipulate must be

1308

00:54:17,109 --> 00:54:14,750

undertaken only by paranormal means not

1309

00:54:19,900 --> 00:54:17,119

so curious are the reactions of winners

1310

00:54:22,150 --> 00:54:19,910

when informed of their success these

1311

00:54:24,880 --> 00:54:22,160

have ranged from blase indifference to

1312

00:54:26,349 --> 00:54:24,890

outrage and occasionally the sort of

1313

00:54:29,070 --> 00:54:26,359

colorful language worthy of an

1314

00:54:31,240 --> 00:54:29,080

Australian fielding in the slips in

1315

00:54:33,340 --> 00:54:31,250

selecting a worthy recipient of this

1316

00:54:34,980 --> 00:54:33,350

award the judging panel looks for a

1317

00:54:38,050 --> 00:54:34,990

claim that has received widespread

1318

00:54:40,780 --> 00:54:38,060

uncritical coverage that contributes to

1319

00:54:42,460 --> 00:54:40,790

the dumbing down of society that has the

1320

00:54:44,859 --> 00:54:42,470

potential to be either physically or

1321

00:54:47,490 --> 00:54:44,869

financially harmful to many people or

1322

00:54:50,680 --> 00:54:47,500

that preys on the sick and vulnerable to

1323

00:54:52,630 --> 00:54:50,690

be successful they should not be purely

1324

00:54:54,730 --> 00:54:52,640

local but be widespread in their

1325

00:54:55,640 --> 00:54:54,740

influence and we like to keep them

1326

00:54:58,490 --> 00:54:55,650

within an Australian

1327

00:55:00,650 --> 00:54:58,500

context past winners have been a pretty

1328

00:55:02,500 --> 00:55:00,660

eclectic bunch ranging from psychics

1329

00:55:05,470 --> 00:55:02,510

wrongly predicting future events

1330

00:55:07,970 --> 00:55:05,480

channeled into these a psychic dentist

1331

00:55:10,300 --> 00:55:07,980

various media organizations and

1332

00:55:12,740 --> 00:55:10,310

identities for promoting such nonsense

1333

00:55:15,290 --> 00:55:12,750

government agencies employing psychic

1334

00:55:16,520 --> 00:55:15,300

archaeologists or accepting sickly

1335

00:55:19,010 --> 00:55:16,530

certificates from alternative

1336

00:55:21,470 --> 00:55:19,020

practitioners a sporting figure

1337

00:55:24,320 --> 00:55:21,480

promoting energy polarisers to make cars

1338

00:55:27,520 --> 00:55:24,330

work better inventors of free energy

1339

00:55:30,020 --> 00:55:27,530

devices anti immunization activists and

1340

00:55:33,290 --> 00:55:30,030

people claiming to have found noah's ark

1341

00:55:36,280 --> 00:55:33,300

the colossus of rhodes and even one who

1342

00:55:38,810 --> 00:55:36,290

cited mythical atlantis in adelaide

1343

00:55:41,540 --> 00:55:38,820

possibly my favorite past when i was the

1344

00:55:43,880 --> 00:55:41,550

1998 award to an institution of higher

1345

00:55:46,730 --> 00:55:43,890

learning located in northern New South

1346

00:55:48,980 --> 00:55:46,740

Wales that announced a research program

1347

00:55:50,920 --> 00:55:48,990

into the efficacy of various alternative

1348

00:55:53,240 --> 00:55:50,930

health methods while simultaneously

1349

00:55:56,480 --> 00:55:53,250

offering degree courses in the same

1350

00:55:58,910 --> 00:55:56,490

methods a case of putting not only the

1351

00:56:02,780 --> 00:55:58,920

cart but also the harness load and

1352

00:56:04,850 --> 00:56:02,790

driver before the horse most winners

1353

00:56:06,290 --> 00:56:04,860

have made claims that have difficulty in

1354

00:56:08,480 --> 00:56:06,300

withstanding any sort of critical

1355

00:56:11,960 --> 00:56:08,490

analysis or even a small dose of common

1356

00:56:14,240 --> 00:56:11,970

sense our first test is always to apply

1357

00:56:17,810 --> 00:56:14,250

the dictum if it sounds too good to be

1358

00:56:20,330 --> 00:56:17,820

true it almost certainly is it's not an

1359

00:56:23,510 --> 00:56:20,340

infallible test but it is correct far

1360

00:56:25,250 --> 00:56:23,520

more often than not this year we have

1361

00:56:27,380 --> 00:56:25,260

several nominations for commercial

1362

00:56:30,830 --> 00:56:27,390

organizations that have pushed ideas

1363

00:56:32,540 --> 00:56:30,840

based on New Age superstition one is an

1364

00:56:35,440 --> 00:56:32,550

insurance company that claimed that

1365

00:56:37,610 --> 00:56:35,450

driving ability was related to star sign

1366

00:56:39,800 --> 00:56:37,620

more common have been companies

1367

00:56:41,660 --> 00:56:39,810

including one of the big banks with

1368

00:56:44,270 --> 00:56:41,670

their own particular version of Feng

1369

00:56:46,490 --> 00:56:44,280

Shui an ancient Chinese art of

1370

00:56:49,330 --> 00:56:46,500

aesthetics that has been mystified in

1371

00:56:52,220 --> 00:56:49,340

its translation into Western practice

1372

00:56:54,170 --> 00:56:52,230

these nominees promise that Feng Shui

1373

00:56:57,380 --> 00:56:54,180

will promote health wealth and

1374

00:57:01,190 --> 00:56:57,390

well-being if incorporated into the

1375

00:57:03,320 --> 00:57:01,200

design and decor of buildings tell that

1376
00:57:05,750 --> 00:57:03,330
to the investors or creditors of one

1377
00:57:07,490 --> 00:57:05,760
tell which famously designed its

1378
00:57:09,110 --> 00:57:07,500
officers on the advice of thing Shui

1379
00:57:11,850 --> 00:57:09,120
experts

1380
00:57:13,800 --> 00:57:11,860
we also have nominations for various

1381
00:57:15,750 --> 00:57:13,810
media outlets for their unquestioning

1382
00:57:18,150 --> 00:57:15,760
acceptance of assorted dubious

1383
00:57:20,670 --> 00:57:18,160
propositions often alleging health

1384
00:57:22,890 --> 00:57:20,680
benefits and one for the entire

1385
00:57:25,020 --> 00:57:22,900
economics profession though we regard

1386
00:57:28,530 --> 00:57:25,030
that as an incomprehensible rather than

1387
00:57:30,990 --> 00:57:28,540
a paranormal field one hopeful nominator

1388
00:57:33,120 --> 00:57:31,000

has even cited steve wars notorious

1389

00:57:36,240 --> 00:57:33,130

attachment to his battered baggy green

1390

00:57:38,580 --> 00:57:36,250

cap that's not a likely winner however

1391

00:57:40,950 --> 00:57:38,590

as even skeptics can hold something

1392

00:57:54,350 --> 00:57:40,960

sacred and cricket tradition rates

1393

00:58:00,300 --> 00:57:57,180

this is desiree host of Canadian radio

1394

00:58:02,280 --> 00:58:00,310

shows skeptically speaking for those of

1395

00:58:04,710 --> 00:58:02,290

you that don't know Kenneth is quite

1396

00:58:07,080 --> 00:58:04,720

similar to Australia people know as

1397

00:58:10,100 --> 00:58:07,090

primarily for our weather and our beer

1398

00:58:14,250 --> 00:58:10,110

and we have a queen just like you do

1399

00:58:16,410 --> 00:58:14,260

same one as you do actually we also have

1400

00:58:18,750 --> 00:58:16,420

mythical monsters and people who think

1401
00:58:20,220 --> 00:58:18,760
they have psychic abilities and people

1402
00:58:23,160 --> 00:58:20,230
who think that vaccinations are bad for

1403
00:58:25,260 --> 00:58:23,170
you so keep listening to the skeptic

1404
00:58:35,410 --> 00:58:25,270
zone and know that we're all in this

1405
00:58:40,280 --> 00:58:37,700
thank you for listening to the skeptic

1406
00:58:43,340 --> 00:58:40,290
zone this week now all those people who

1407
00:58:45,350 --> 00:58:43,350
chip in every week with a 99 cents I

1408
00:58:47,930 --> 00:58:45,360
want you to know that your money has

1409
00:58:51,080 --> 00:58:47,940
gone to a very good use lately I've

1410
00:58:53,960 --> 00:58:51,090
bought our voiceover manju mulcher this

1411
00:58:56,570 --> 00:58:53,970
man welcome to the skeptic zone the

1412
00:58:58,810 --> 00:58:56,580
podcast from Australia for science and

1413
00:59:01,010 --> 00:58:58,820

reason I bought him a brand-new

1414

00:59:03,500 --> 00:59:01,020

professional microphone for his birthday

1415

00:59:05,870 --> 00:59:03,510

and he's going to be using that to do

1416

00:59:08,150 --> 00:59:05,880

more recordings for the skeptic zone so

1417

00:59:10,850 --> 00:59:08,160

thank you listeners thank you to those

1418

00:59:13,610 --> 00:59:10,860

people who contribute your money really

1419

00:59:16,010 --> 00:59:13,620

does get put to good use but for now

1420

00:59:22,280 --> 00:59:16,020

this is Richard Saunders signing off

1421

00:59:25,610 --> 00:59:22,290

from Sydney Australia you've been

1422

00:59:30,110 --> 00:59:25,620

listening to the skeptic zone visit our

1423

00:59:32,570 --> 00:59:30,120

website at [www.skeptics on TV](http://www.skepticsontv.com) the