

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

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

3
00:00:22,730 --> 00:00:31,469
yes it's the skeptic Zone episode number

4
00:00:26,449 --> 00:00:32,909
127 or the 25th of March 2011 Richard

5
00:00:31,469 --> 00:00:36,210
Saunders here with you from Sydney

6
00:00:32,909 --> 00:00:37,909
Australia what a mixed bag an eclectic

7
00:00:36,210 --> 00:00:39,808
mix we have for you on today's show

8
00:00:37,909 --> 00:00:42,119
we're going to kick off with an

9
00:00:39,808 --> 00:00:44,849
interview that our good friend and us

10
00:00:42,119 --> 00:00:46,769
correspondent Travis Roy conducted with

11
00:00:44,850 --> 00:00:49,739
Mark mervine all about the current

12
00:00:46,770 --> 00:00:52,559
situation and the worries in Japan with

13
00:00:49,738 --> 00:00:55,320
the reactors over there now marks going

14
00:00:52,558 --> 00:00:58,530
to explain to Travis and to us some of

15
00:00:55,320 --> 00:01:00,869
the concerns with the reactors and what

16
00:00:58,530 --> 00:01:02,840
can possibly be done very interesting

17
00:01:00,869 --> 00:01:05,099
interview that's at the top of the show

18
00:01:02,840 --> 00:01:07,170
following that we have the interview

19
00:01:05,099 --> 00:01:10,679
that was held over from last week where

20
00:01:07,170 --> 00:01:13,710
Maynard has a word to Robbie bono

21
00:01:10,680 --> 00:01:16,649
Chrissy a recipient of a heart

22
00:01:13,709 --> 00:01:19,559
transplant and I guess the message here

23
00:01:16,649 --> 00:01:22,049
folks is if you're not a donor become

24
00:01:19,560 --> 00:01:24,030
one after that we've got a clip from a

25
00:01:22,049 --> 00:01:26,789
TV show here in Australia called the

26
00:01:24,030 --> 00:01:30,659
circle we're just sort of like the view

27
00:01:26,790 --> 00:01:32,640
sort of a mid-morning chat show they

28
00:01:30,659 --> 00:01:35,640
recently had on their resin medico

29

00:01:32,640 --> 00:01:37,829
doctor deeper Daniel discussing

30
00:01:35,640 --> 00:01:40,859
vaccinations and I thought the advice

31
00:01:37,829 --> 00:01:43,709
was pretty good so we'll include that

32
00:01:40,859 --> 00:01:47,099
clip today then after that it's a

33
00:01:43,709 --> 00:01:49,379
visiting radio 2 GB once again dr. Ricci

34
00:01:47,099 --> 00:01:51,750
and myself go in to see I would bring

35
00:01:49,379 --> 00:01:54,719
Glenn wheeler now this was recorded a

36
00:01:51,750 --> 00:01:56,750
few weeks ago before the earthquake and

37
00:01:54,719 --> 00:01:59,489
tsunami in Japan but it's all about

38
00:01:56,750 --> 00:02:01,890
psychics who reckon they can predict the

39
00:01:59,489 --> 00:02:04,949
future very interesting when you think

40
00:02:01,890 --> 00:02:07,890
about recent developments and round off

41
00:02:04,950 --> 00:02:09,840
the show we have former chief executive

42
00:02:07,890 --> 00:02:12,599
officer of Australian skeptics Barry

43
00:02:09,840 --> 00:02:16,620

Williams with the short edit oriole he

44

00:02:12,599 --> 00:02:18,569

wrote about our famous bent spoon award

45

00:02:16,620 --> 00:02:20,489

now I've had an interesting time over

46

00:02:18,569 --> 00:02:23,189

the last two weeks I've been converting

47

00:02:20,489 --> 00:02:27,030

various DVDs I've created over the years

48

00:02:23,189 --> 00:02:29,789

into ntsc format for North America

49

00:02:27,030 --> 00:02:32,969

that's the great water divining DVD from

50

00:02:29,789 --> 00:02:34,318

Australian skeptics the rhyme keeper our

51

00:02:32,969 --> 00:02:36,829

voiceover man Jim

52

00:02:34,318 --> 00:02:39,810

his own DVD about Australian poetry and

53

00:02:36,829 --> 00:02:43,799

a DVD I did a few years ago with my good

54

00:02:39,810 --> 00:02:45,810

friend Gary Clark DVD origami it's very

55

00:02:43,799 --> 00:02:48,840

exciting to have those now in ntsc

56

00:02:45,810 --> 00:02:51,598

format but what a process that is to

57

00:02:48,840 --> 00:02:53,400

convert videos from pal to ntsc i hope i

58
00:02:51,598 --> 00:02:56,280
don't have to do that too often more

59
00:02:53,400 --> 00:02:59,579
news about those dvds in the coming

60
00:02:56,280 --> 00:03:03,060
weeks but for now sit back grab a nice

61
00:02:59,579 --> 00:03:05,269
sausage sandwich and enjoy the skeptic

62
00:03:03,060 --> 00:03:05,269
zone

63
00:03:21,490 --> 00:03:26,020
so this is travis with the skeptic zone

64
00:03:23,930 --> 00:03:29,300
and i'm sitting here with Mark Marvin

65
00:03:26,020 --> 00:03:31,159
and to talk about the tragedy of the

66
00:03:29,300 --> 00:03:33,020
nuclear power plant getting hit by the

67
00:03:31,159 --> 00:03:35,509
earthquake in following tsunami i

68
00:03:33,020 --> 00:03:37,280
graduated from the Naval Academy in 1981

69
00:03:35,509 --> 00:03:39,739
and went into the Navy nuclear power

70
00:03:37,280 --> 00:03:42,229
program and served in the submarine

71
00:03:39,739 --> 00:03:44,840
force I was on a blizzard missile

72
00:03:42,229 --> 00:03:46,518
submarine and then I also was part of

73
00:03:44,840 --> 00:03:48,469
the instructor staff and was an

74
00:03:46,519 --> 00:03:51,439
instructor at one of our land based

75
00:03:48,469 --> 00:03:54,560
training facilities after six and a half

76
00:03:51,439 --> 00:03:56,769
to seven years of active duty I went

77
00:03:54,560 --> 00:04:00,409
into the reserves and I went to work for

78
00:03:56,769 --> 00:04:01,519
Wisconsin Electric which at the time the

79
00:04:00,409 --> 00:04:05,568
ownership has changed but at the time

80
00:04:01,519 --> 00:04:09,980
they owned a Westinghouse to unit

81
00:04:05,568 --> 00:04:11,179
nuclear power plant on Lake Michigan and

82
00:04:09,979 --> 00:04:13,818
it worked there for a few years and then

83
00:04:11,180 --> 00:04:17,209
I went to work for Vermont Yankee which

84
00:04:13,818 --> 00:04:20,509
has a boiling water reactor very similar

85
00:04:17,209 --> 00:04:22,668
in vintage and design to the ones in

86

00:04:20,509 --> 00:04:25,550
Japan with respect to the venting that's

87
00:04:22,668 --> 00:04:28,609
been going on when the windows reactors

88
00:04:25,550 --> 00:04:31,129
scrammed the mainstream ISIL isolation

89
00:04:28,610 --> 00:04:33,680
valves would have shut that that big

90
00:04:31,129 --> 00:04:36,350
steam path to the turban is just shut

91
00:04:33,680 --> 00:04:38,840
off okay they have some safety systems

92
00:04:36,350 --> 00:04:42,470
that will kick in in particular they

93
00:04:38,839 --> 00:04:44,569
have one cooling system that is actually

94
00:04:42,470 --> 00:04:47,300
a steam-driven poem that's kind of a

95
00:04:44,569 --> 00:04:50,060
two-fold purpose one is to take some of

96
00:04:47,300 --> 00:04:51,650
that steam that's in the reactor and and

97
00:04:50,060 --> 00:04:54,259
kind of deplete it so that you don't get

98
00:04:51,649 --> 00:04:56,269
a huge pressure spike and the second

99
00:04:54,259 --> 00:04:58,189
obviously is you take a steam driven

100
00:04:56,269 --> 00:04:59,990

pump and use that to pump water back in

101

00:04:58,189 --> 00:05:02,449

to the reactor so it's kind of like a

102

00:04:59,990 --> 00:05:05,240

win-win what happened about an hour

103

00:05:02,449 --> 00:05:07,579

after the plant shutdown was of course

104

00:05:05,240 --> 00:05:09,350

the tsunami which you know we've all

105

00:05:07,579 --> 00:05:11,359

seen the pictures from that the

106

00:05:09,350 --> 00:05:14,620

television of how big of a wave of water

107

00:05:11,360 --> 00:05:16,389

that was yeah somewhere between 20 and 3

108

00:05:14,620 --> 00:05:18,870

fee they would have been running on

109

00:05:16,389 --> 00:05:21,850

their diesel generators because

110

00:05:18,870 --> 00:05:24,310

apparently the grid was knocked out of

111

00:05:21,850 --> 00:05:27,160

service to the earthquake and what that

112

00:05:24,310 --> 00:05:28,689

did is that flooded where the diesel

113

00:05:27,160 --> 00:05:30,490

generators were and where a lot of their

114

00:05:28,689 --> 00:05:33,850

electrical switchgear was they were down

115
00:05:30,490 --> 00:05:36,250
to just batteries all of the pumps that

116
00:05:33,850 --> 00:05:38,169
you need so it's great that we have the

117
00:05:36,250 --> 00:05:40,329
steam driven pump that's going to take

118
00:05:38,168 --> 00:05:42,609
the steam and then pump water back into

119
00:05:40,329 --> 00:05:44,649
the reactor but it's somewhere online

120
00:05:42,610 --> 00:05:47,020
you have to cool that right which means

121
00:05:44,649 --> 00:05:48,399
you need a pump is taking water out of

122
00:05:47,019 --> 00:05:51,279
the ocean pumping it through a heat

123
00:05:48,399 --> 00:05:53,709
exchanger and back out they lost all of

124
00:05:51,279 --> 00:05:55,809
those sea water cooling pumps and then

125
00:05:53,709 --> 00:05:58,329
they also lost because of lack of

126
00:05:55,810 --> 00:06:00,339
electricity the other pumps that would

127
00:05:58,329 --> 00:06:02,199
have been part of multiple redundant

128
00:06:00,339 --> 00:06:03,279
safety systems high-pressure colon

129
00:06:02,199 --> 00:06:06,009
injection and low pressure coolant

130
00:06:03,279 --> 00:06:09,189
injection there are HR pumps for Decatur

131
00:06:06,009 --> 00:06:10,870
removal all of that equipment was

132
00:06:09,189 --> 00:06:13,509
rendered inoperable do the lack of

133
00:06:10,870 --> 00:06:14,860
electricity and after some period of

134
00:06:13,509 --> 00:06:16,930
time it was pretty obvious that they

135
00:06:14,860 --> 00:06:19,930
weren't getting electricity back they

136
00:06:16,930 --> 00:06:22,449
really had to go to plan D or F which

137
00:06:19,930 --> 00:06:25,470
was how do I get any water into those

138
00:06:22,449 --> 00:06:28,478
reactors and that was through the use of

139
00:06:25,470 --> 00:06:31,300
basically portable firefighting pumps

140
00:06:28,478 --> 00:06:32,379
which are relatively low pressure well

141
00:06:31,300 --> 00:06:33,939
the water is not going to fall into the

142
00:06:32,379 --> 00:06:36,219
reactor if the reactor pressure is

143

00:06:33,939 --> 00:06:38,829
higher than that right which was steam

144
00:06:36,220 --> 00:06:41,110
in there it normally would be right so

145
00:06:38,829 --> 00:06:42,579
they have to vent some of that off so

146
00:06:41,110 --> 00:06:44,348
the water would flow in right there

147
00:06:42,579 --> 00:06:46,359
basically replacing the steam with water

148
00:06:44,348 --> 00:06:48,159
well I gotta take some steam out to

149
00:06:46,360 --> 00:06:50,680
Goose the pressure so that it's below

150
00:06:48,160 --> 00:06:52,930
whatever that pump can put out so the

151
00:06:50,680 --> 00:06:54,550
water would flow in the pictures I've

152
00:06:52,930 --> 00:06:56,288
looked at you see the containment

153
00:06:54,550 --> 00:06:58,150
building and then you see the reactor

154
00:06:56,288 --> 00:06:59,680
inside of it are they pumping this water

155
00:06:58,149 --> 00:07:01,448
directly into the reactor or the

156
00:06:59,680 --> 00:07:03,370
containment around the react into the

157
00:07:01,449 --> 00:07:05,199

reactor itself now the steam that

158

00:07:03,370 --> 00:07:08,199

they're venting would be radioactive

159

00:07:05,199 --> 00:07:11,680

then in fact it's very radioactive

160

00:07:08,199 --> 00:07:13,379

because there was a matter of a number

161

00:07:11,680 --> 00:07:16,530

of hours where they didn't have any

162

00:07:13,379 --> 00:07:18,509

cooling right which meant that the fuel

163

00:07:16,529 --> 00:07:19,529

was damaged and we know the fuel was

164

00:07:18,509 --> 00:07:23,310

damaged for a number of different

165

00:07:19,529 --> 00:07:25,739

reasons one we had these big explosions

166

00:07:23,310 --> 00:07:28,319

what exploded was hydrogen how we got

167

00:07:25,740 --> 00:07:31,259

hydrogen was we got that cladding around

168

00:07:28,319 --> 00:07:33,810

the fuel up to at least 2,200 degrees

169

00:07:31,259 --> 00:07:36,990

Fahrenheit where the zirconium

170

00:07:33,810 --> 00:07:39,839

interacted with water to form psychonia

171

00:07:36,990 --> 00:07:41,340

zirconium dioxide if the hydrogen was

172
00:07:39,839 --> 00:07:43,169
released so when they vented the scheme

173
00:07:41,339 --> 00:07:47,219
there was hydrogen in the reactor and

174
00:07:43,170 --> 00:07:49,590
they eventually vented enough of it into

175
00:07:47,220 --> 00:07:51,630
the secondary containment to the point

176
00:07:49,589 --> 00:07:53,219
where they got enough hydrogen up there

177
00:07:51,629 --> 00:07:55,769
that they reached an explosive

178
00:07:53,220 --> 00:07:58,470
concentration and we had explosions in

179
00:07:55,769 --> 00:07:59,969
both the number one and number 3 reactor

180
00:07:58,470 --> 00:08:02,010
buildings and you can see from the

181
00:07:59,970 --> 00:08:04,590
pictures how extensively damaged those

182
00:08:02,009 --> 00:08:06,599
buildings are it's just a frame now so

183
00:08:04,589 --> 00:08:09,599
the other way that we know that we have

184
00:08:06,600 --> 00:08:12,420
fuel damage is we're able to detect the

185
00:08:09,600 --> 00:08:14,930
fission products such as cesium and

186
00:08:12,420 --> 00:08:17,970
iodine in the environment yeah so how

187
00:08:14,930 --> 00:08:20,160
damaging would that be to people and how

188
00:08:17,970 --> 00:08:22,320
wide of an area without knowing the

189
00:08:20,160 --> 00:08:24,240
specific concentrations of the samples

190
00:08:22,319 --> 00:08:26,159
you really couldn't answer that question

191
00:08:24,240 --> 00:08:28,740
yeah somebody's doing the samples and

192
00:08:26,160 --> 00:08:30,270
getting the data now we're very lucky

193
00:08:28,740 --> 00:08:32,340
that the winds were blowing from the

194
00:08:30,269 --> 00:08:34,110
west to the east which was taking most

195
00:08:32,340 --> 00:08:37,050
of the radioactivity out over the ocean

196
00:08:34,110 --> 00:08:39,629
now obviously winds don't blow in one

197
00:08:37,049 --> 00:08:41,788
direction all the time also depending on

198
00:08:39,629 --> 00:08:43,379
the amount of radioactive particles

199
00:08:41,788 --> 00:08:46,110
released some of them are going to

200

00:08:43,379 --> 00:08:48,590
settle in around the plant and we know

201
00:08:46,110 --> 00:08:52,370
from the news in the past 24 hours that

202
00:08:48,590 --> 00:08:55,519
they have detected cesium and iodine in

203
00:08:52,370 --> 00:08:58,649
spinach milk and other agricultural

204
00:08:55,519 --> 00:09:00,569
products you mentioned that the fuel was

205
00:08:58,649 --> 00:09:03,149
damaged and we can tell it because of

206
00:09:00,570 --> 00:09:04,290
the hydrogen and the explosions now and

207
00:09:03,149 --> 00:09:06,000
the fission program and the fission

208
00:09:04,289 --> 00:09:08,549
products so now would that lead you to

209
00:09:06,000 --> 00:09:10,799
believe that the core went into at least

210
00:09:08,549 --> 00:09:14,669
partial meltdown or would you go that

211
00:09:10,799 --> 00:09:16,559
far I think any reasonable analysis of

212
00:09:14,669 --> 00:09:18,269
the situation would would lead you to

213
00:09:16,559 --> 00:09:20,129
believe that we've got some fairly

214
00:09:18,269 --> 00:09:24,809

significant core damage in each of those

215

00:09:20,129 --> 00:09:25,860

three reactors as well as the spent fuel

216

00:09:24,809 --> 00:09:28,549

in the unit for

217

00:09:25,860 --> 00:09:32,459

or with regards to the actual reactor

218

00:09:28,549 --> 00:09:34,559

when a core goes into partial meltdown

219

00:09:32,458 --> 00:09:37,919

or full meltdown what does that mean

220

00:09:34,559 --> 00:09:39,899

exactly and what what can happen until

221

00:09:37,919 --> 00:09:43,229

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

222

00:09:39,899 --> 00:09:46,620

recovery mode and probably months if not

223

00:09:43,230 --> 00:09:50,639

years from now when we're actually able

224

00:09:46,620 --> 00:09:53,339

to have these plants cool down not only

225

00:09:50,639 --> 00:09:56,819

temperature wise but radioactivity wise

226

00:09:53,339 --> 00:10:00,060

to allow you the pressure vessel head to

227

00:09:56,820 --> 00:10:03,060

be removed or allow for cameras to be

228

00:10:00,059 --> 00:10:05,099

sent in to look at the court we won't

229
00:10:03,059 --> 00:10:07,949
really know the extent of the damage

230
00:10:05,100 --> 00:10:10,379
whether we have fuel rods that have

231
00:10:07,950 --> 00:10:12,839
blistered whether we've actually got

232
00:10:10,379 --> 00:10:16,379
some warping of the fuel or whether we

233
00:10:12,839 --> 00:10:19,260
have substantial melting of part of the

234
00:10:16,379 --> 00:10:22,078
fuel it's impossible to say at this

235
00:10:19,259 --> 00:10:23,970
point in the game if I were to add you

236
00:10:22,078 --> 00:10:27,750
to guess I would say that there's

237
00:10:23,970 --> 00:10:30,269
probably a percentage of the core and

238
00:10:27,750 --> 00:10:32,610
those four units that is melted and

239
00:10:30,269 --> 00:10:35,039
we'll just say worst case scenario say

240
00:10:32,610 --> 00:10:37,169
you had a Total core meltdown if the

241
00:10:35,039 --> 00:10:40,319
core goes into meltdown then you can't

242
00:10:37,169 --> 00:10:43,229
control the nuclear reaction potentially

243
00:10:40,320 --> 00:10:46,320
potentially right so if that continued

244
00:10:43,230 --> 00:10:48,659
to go on what could what would be the

245
00:10:46,320 --> 00:10:52,528
the fallout from now could it blow up

246
00:10:48,659 --> 00:10:53,969
could it could it the problem is it

247
00:10:52,528 --> 00:10:55,500
would make the situation worse the

248
00:10:53,970 --> 00:10:57,000
reactor was shut down and it's still

249
00:10:55,500 --> 00:10:59,490
generating a substantial amount of pee

250
00:10:57,000 --> 00:11:02,578
right if you were to have a situation

251
00:10:59,490 --> 00:11:04,980
where the neutron population was start

252
00:11:02,578 --> 00:11:06,778
to go back up and the reactor power

253
00:11:04,980 --> 00:11:09,180
would be going up then you're going to

254
00:11:06,778 --> 00:11:11,698
be generating a more heat making the

255
00:11:09,179 --> 00:11:13,588
situation even worse blow up is not the

256
00:11:11,698 --> 00:11:17,609
word that I would use however with that

257

00:11:13,589 --> 00:11:19,860
being said we know that when you get to

258
00:11:17,610 --> 00:11:21,180
2,200 degrees that zirconium does

259
00:11:19,860 --> 00:11:24,149
interact with the water and form

260
00:11:21,179 --> 00:11:27,269
hydrogen and the hydrogen was you know

261
00:11:24,149 --> 00:11:30,839
what caused the explosions it is

262
00:11:27,269 --> 00:11:33,230
definitely a concern that you get

263
00:11:30,839 --> 00:11:36,209
hydrogen in the reactor itself

264
00:11:33,230 --> 00:11:38,159
fortunately normally there's no big

265
00:11:36,208 --> 00:11:39,208
source of oxygen that could cause an

266
00:11:38,159 --> 00:11:42,480
explosion so

267
00:11:39,208 --> 00:11:45,649
it's it's pretty unlikely that the fuel

268
00:11:42,480 --> 00:11:47,759
would explode per se yeah especially

269
00:11:45,649 --> 00:11:50,039
especially given that we know that we

270
00:11:47,759 --> 00:11:52,110
have some water in there if you had no

271
00:11:50,039 --> 00:11:55,230

water and there a more likely scenario

272

00:11:52,110 --> 00:11:58,199

would be it would it would melt through

273

00:11:55,230 --> 00:12:02,069

the the metal of the reactor vessel and

274

00:11:58,198 --> 00:12:03,778

into the containment building how far it

275

00:12:02,068 --> 00:12:07,469

would go in the containment building

276

00:12:03,778 --> 00:12:09,749

which is steel and concrete would depend

277

00:12:07,470 --> 00:12:12,569

on whether you could get water in there

278

00:12:09,749 --> 00:12:15,209

or not okay and if it if it potentially

279

00:12:12,568 --> 00:12:18,899

got out of the containment vessel I'm

280

00:12:15,208 --> 00:12:22,049

really bad yeah it would be a really bad

281

00:12:18,899 --> 00:12:23,970

movie everybody remembers the jettison

282

00:12:22,049 --> 00:12:25,859

yes and I don't know what we would call

283

00:12:23,970 --> 00:12:27,928

it over there because China is of course

284

00:12:25,860 --> 00:12:30,688

right next door so I don't know that we

285

00:12:27,928 --> 00:12:32,688

call that the Brazil syndrome or what

286

00:12:30,688 --> 00:12:36,328

but it's hard to answer these

287

00:12:32,688 --> 00:12:38,278

hypothetical questions given the reality

288

00:12:36,328 --> 00:12:43,378

of where we are we have water in there

289

00:12:38,278 --> 00:12:45,269

the situation now is not good but it's I

290

00:12:43,379 --> 00:12:47,039

think I explained for the last couple

291

00:12:45,269 --> 00:12:49,249

days of my interviews at least it's not

292

00:12:47,039 --> 00:12:52,188

getting worse every day right it's I

293

00:12:49,249 --> 00:12:55,678

hesitate to call it stable but

294

00:12:52,188 --> 00:12:57,659

relatively speaking you know a week ago

295

00:12:55,678 --> 00:12:59,639

every day you turn on the news it was

296

00:12:57,659 --> 00:13:01,649

getting worse every day yeah now it's

297

00:12:59,639 --> 00:13:05,369

getting a little bit better the the

298

00:13:01,649 --> 00:13:07,350

situation is stable with within within

299

00:13:05,369 --> 00:13:09,360

the context of how we want to use that

300
00:13:07,350 --> 00:13:11,100
word yeah they're definitely not out of

301
00:13:09,360 --> 00:13:13,019
the woods yet now the other thing that

302
00:13:11,100 --> 00:13:15,329
I've heard talked about is is that since

303
00:13:13,019 --> 00:13:17,698
these the outer buildings have had

304
00:13:15,328 --> 00:13:20,368
explosions in them and like you said one

305
00:13:17,698 --> 00:13:24,240
of them was really mangled how are they

306
00:13:20,369 --> 00:13:26,579
able to even get in there to do stuff

307
00:13:24,240 --> 00:13:29,519
and to vent like they've been doing and

308
00:13:26,578 --> 00:13:31,258
to get water into the reactor if I mean

309
00:13:29,519 --> 00:13:33,749
all these systems must be damaged well

310
00:13:31,259 --> 00:13:36,240
but what you can see is is the very

311
00:13:33,749 --> 00:13:38,670
tippy top of the building yeah which is

312
00:13:36,240 --> 00:13:41,490
where the refueling deck is on the spent

313
00:13:38,669 --> 00:13:42,679
fuel pool and the crane that allows you

314

00:13:41,490 --> 00:13:44,690
to do refueling and

315
00:13:42,679 --> 00:13:47,838
remove the head of the reactor and that

316
00:13:44,690 --> 00:13:52,130
type of thing everything else is down

317
00:13:47,839 --> 00:13:54,890
lower and you know the question is how

318
00:13:52,129 --> 00:13:57,889
much how much damage do we have down

319
00:13:54,889 --> 00:14:00,439
lower in the reactor building all of the

320
00:13:57,889 --> 00:14:01,970
pumps and heat exchanges that we would

321
00:14:00,440 --> 00:14:03,290
need to cool the reactor would be down

322
00:14:01,970 --> 00:14:05,300
lower they're not up there on that

323
00:14:03,289 --> 00:14:09,740
refueling all right actually so my hope

324
00:14:05,299 --> 00:14:12,439
is most of that is not damaged and since

325
00:14:09,740 --> 00:14:14,110
there's multiple redundant systems that

326
00:14:12,440 --> 00:14:16,399
they'll at least be able to get one

327
00:14:14,110 --> 00:14:18,589
system working in each of those

328
00:14:16,399 --> 00:14:20,750

buildings I think from a command and

329

00:14:18,589 --> 00:14:23,779

control perspective I don't know whether

330

00:14:20,750 --> 00:14:25,789

they change who's in charge or what but

331

00:14:23,778 --> 00:14:27,950

they seem to be going about it a lot

332

00:14:25,789 --> 00:14:31,009

better now than they were a few days ago

333

00:14:27,950 --> 00:14:33,709

they did quite a bit of work at units 5

334

00:14:31,009 --> 00:14:36,559

& 6 to stabilize those and those units

335

00:14:33,708 --> 00:14:37,969

now are not so much of a worry and

336

00:14:36,559 --> 00:14:40,639

they're going to start with their

337

00:14:37,970 --> 00:14:42,589

restoration efforts on unit 2 who's

338

00:14:40,639 --> 00:14:44,539

building has the least damage there was

339

00:14:42,589 --> 00:14:48,050

an explosion but nothing to the extent

340

00:14:44,539 --> 00:14:49,579

of the other buildings so externally you

341

00:14:48,049 --> 00:14:52,159

don't even really see any damage in that

342

00:14:49,580 --> 00:14:54,290

building right and so hopefully they'll

343
00:14:52,159 --> 00:14:56,329
restore some cool into that one and get

344
00:14:54,289 --> 00:14:59,659
that one under control and then turn

345
00:14:56,330 --> 00:15:02,000
their attentions to units 1 3 & 4 with

346
00:14:59,659 --> 00:15:04,009
what had happened after the tsunami hit

347
00:15:02,000 --> 00:15:06,169
with the power problems and everything

348
00:15:04,009 --> 00:15:10,159
else do you think that there was some

349
00:15:06,169 --> 00:15:12,349
significant human error that was done to

350
00:15:10,159 --> 00:15:14,329
create this kind of situation letting

351
00:15:12,350 --> 00:15:18,110
the water level get too low in the spent

352
00:15:14,330 --> 00:15:20,209
fuel pools not having and not even just

353
00:15:18,110 --> 00:15:22,850
from that from the aftermath but just

354
00:15:20,208 --> 00:15:25,099
from planning where the generators and

355
00:15:22,850 --> 00:15:27,350
stuff got knocked out so easily you hate

356
00:15:25,100 --> 00:15:29,990
to be a backseat driver but I was

357
00:15:27,350 --> 00:15:31,940
surprised when they started having

358
00:15:29,990 --> 00:15:34,100
trouble with the spent fuel pools

359
00:15:31,940 --> 00:15:37,880
knowing that they had fire pumps

360
00:15:34,100 --> 00:15:40,670
available and typically at a power plant

361
00:15:37,879 --> 00:15:42,500
you'll have a nonzero operator that

362
00:15:40,669 --> 00:15:44,958
would too around the building and

363
00:15:42,500 --> 00:15:47,179
inspect the building at least once an

364
00:15:44,958 --> 00:15:49,099
hour so normally somebody should have

365
00:15:47,179 --> 00:15:50,509
been up going up to the refueling deck

366
00:15:49,100 --> 00:15:52,009
and checking on the spent a few

367
00:15:50,509 --> 00:15:54,789
pull the temperature of the water levels

368
00:15:52,009 --> 00:15:56,960
every hour you would have thought that

369
00:15:54,789 --> 00:15:58,549
once they first noticed that the

370
00:15:56,960 --> 00:16:01,639
temperature was going up or the water

371

00:15:58,549 --> 00:16:03,979
level was going down that they would

372
00:16:01,639 --> 00:16:06,860
take one of the fire hoses and use that

373
00:16:03,980 --> 00:16:09,889
to refill the pool had they done that we

374
00:16:06,860 --> 00:16:12,800
wouldn't have had the explosion and all

375
00:16:09,889 --> 00:16:14,960
the damage at unit 4 in you know in my

376
00:16:12,799 --> 00:16:17,689
opinion you know that was a mistake that

377
00:16:14,960 --> 00:16:19,940
shouldn't have happened but you know I

378
00:16:17,690 --> 00:16:21,950
it's hard to second-guess because you

379
00:16:19,940 --> 00:16:24,080
don't know what the circumstances were

380
00:16:21,950 --> 00:16:25,850
that were going on at the time I mean

381
00:16:24,080 --> 00:16:29,330
there's you know three other reactors

382
00:16:25,850 --> 00:16:32,389
having partial fuel meltdowns explosions

383
00:16:29,330 --> 00:16:33,860
probably high radiation levels maybe it

384
00:16:32,389 --> 00:16:36,379
was to the point where nobody could

385
00:16:33,860 --> 00:16:39,050

could get up to that pool there was no

386

00:16:36,379 --> 00:16:41,929

way to get a fire hose up there and

387

00:16:39,049 --> 00:16:43,669

refill it I don't know but we could have

388

00:16:41,929 --> 00:16:46,309

done without the spent fuel pool

389

00:16:43,669 --> 00:16:49,009

problems and had we not had that to deal

390

00:16:46,309 --> 00:16:50,989

with i think the plant would be a lot

391

00:16:49,009 --> 00:16:53,659

farther along in the recovery because i

392

00:16:50,990 --> 00:16:55,490

really think that a lot of the high

393

00:16:53,659 --> 00:16:58,370

radiation levels have been caused by the

394

00:16:55,490 --> 00:17:00,289

issues that they've had with the spent

395

00:16:58,370 --> 00:17:02,360

fuel pools and obviously a lot of

396

00:17:00,289 --> 00:17:04,338

attention and focus helicopters fire

397

00:17:02,360 --> 00:17:06,289

trucks all those type of things now

398

00:17:04,338 --> 00:17:08,990

trying to get some water back on those

399

00:17:06,289 --> 00:17:11,690

pools that perhaps could have been

400
00:17:08,990 --> 00:17:13,759
avoided right and I guess I my last

401
00:17:11,690 --> 00:17:16,070
question will be how common are these

402
00:17:13,759 --> 00:17:20,959
types of plants and what other types of

403
00:17:16,069 --> 00:17:22,549
plants so around the world most most of

404
00:17:20,959 --> 00:17:24,620
the reactors are either pressurized

405
00:17:22,549 --> 00:17:27,078
water reactors for boiling water

406
00:17:24,619 --> 00:17:30,259
reactors and there's actually quite a

407
00:17:27,078 --> 00:17:33,970
few designs out there at this site the

408
00:17:30,259 --> 00:17:37,879
unit one at Fukushima one actually

409
00:17:33,970 --> 00:17:40,370
achieved criticality i think in 1970 and

410
00:17:37,880 --> 00:17:43,820
went into commercial operation in 1971

411
00:17:40,369 --> 00:17:47,539
what's a long time ago yeah that's 40

412
00:17:43,819 --> 00:17:51,589
years ago so nothing stands still and in

413
00:17:47,539 --> 00:17:54,889
fact in the 70s and 80s the designs were

414
00:17:51,589 --> 00:17:57,079
evolving fairly rapidly especially as

415
00:17:54,890 --> 00:17:59,060
more and more safety regulations were

416
00:17:57,079 --> 00:18:01,990
put in place and more more safety

417
00:17:59,059 --> 00:18:05,529
requirements the the designs evolved

418
00:18:01,990 --> 00:18:07,779
rapidly and in fact at unit 6 at this

419
00:18:05,529 --> 00:18:10,269
site the first five units have a mark 1

420
00:18:07,779 --> 00:18:13,389
containment design you know six has a

421
00:18:10,269 --> 00:18:15,549
mark 2 then there was a mark 3 so

422
00:18:13,390 --> 00:18:17,800
there's there's been an evolution of the

423
00:18:15,549 --> 00:18:20,079
of the boiling water reactor to design

424
00:18:17,799 --> 00:18:22,119
and the same is true for for the

425
00:18:20,079 --> 00:18:24,279
pressurized water reactor design the

426
00:18:22,119 --> 00:18:25,928
smaller ones originally were what we

427
00:18:24,279 --> 00:18:28,420
call to loop plants where there's two

428

00:18:25,929 --> 00:18:30,519
steam generators there was kind of an

429
00:18:28,420 --> 00:18:32,019
intermediate size that had three loops

430
00:18:30,519 --> 00:18:35,200
and then some of the larger ones had

431
00:18:32,019 --> 00:18:37,000
four originally this technology was

432
00:18:35,200 --> 00:18:38,880
developed an engineer in the United

433
00:18:37,000 --> 00:18:40,299
States and the big players were

434
00:18:38,880 --> 00:18:42,580
Westinghouse and General Electric

435
00:18:40,299 --> 00:18:45,009
overtime license agreements were done

436
00:18:42,579 --> 00:18:47,919
and so the French started off with

437
00:18:45,009 --> 00:18:49,750
Westinghouse plans but then took that

438
00:18:47,920 --> 00:18:52,090
design and essentially came up with

439
00:18:49,750 --> 00:18:53,950
their own designs and now they have

440
00:18:52,089 --> 00:18:55,678
their own company that sells nuclear

441
00:18:53,950 --> 00:18:59,529
power plants around the world and also

442
00:18:55,679 --> 00:19:00,730

Westinghouse was was sold and I think I

443

00:18:59,529 --> 00:19:03,609
got to get this right I think it's

444

00:19:00,730 --> 00:19:05,470
actually owned by Toshiba and I think

445

00:19:03,609 --> 00:19:07,509
it's G that has the partnership with

446

00:19:05,470 --> 00:19:09,579
Hitachi in the nuclear business the

447

00:19:07,509 --> 00:19:12,308
Koreans have developed their own nuclear

448

00:19:09,579 --> 00:19:14,379
power plant technology originally when

449

00:19:12,308 --> 00:19:17,740
they first did power plants in Korea

450

00:19:14,380 --> 00:19:19,480
they bought the designs from the

451

00:19:17,740 --> 00:19:21,970
traditional suppliers but now they've

452

00:19:19,480 --> 00:19:24,099
developed their own designs probably

453

00:19:21,970 --> 00:19:25,779
what most people are interested in was

454

00:19:24,099 --> 00:19:29,230
ok if we were going to build a nuclear

455

00:19:25,779 --> 00:19:30,849
power plant today what kind of design

456

00:19:29,230 --> 00:19:32,470
would it be I've been out of the

457
00:19:30,849 --> 00:19:34,629
industry for some years so I'm not a

458
00:19:32,470 --> 00:19:36,130
hundred percent up to speed then the

459
00:19:34,630 --> 00:19:38,830
newest design from Westinghouse is

460
00:19:36,130 --> 00:19:42,820
called the ap1000 and the big difference

461
00:19:38,829 --> 00:19:45,730
between that plant and the plants that

462
00:19:42,819 --> 00:19:49,629
were built in the 70s and 80s is there's

463
00:19:45,730 --> 00:19:52,509
a lot more passive safety systems the

464
00:19:49,630 --> 00:19:54,460
big problem at Fukushima was you needed

465
00:19:52,509 --> 00:19:56,259
electricity you needed the operators to

466
00:19:54,460 --> 00:19:58,539
be able to do some things the automatic

467
00:19:56,259 --> 00:20:00,190
systems kicked in the one they lost

468
00:19:58,539 --> 00:20:02,409
power everything went working and then

469
00:20:00,190 --> 00:20:06,910
it required people a lot of people that

470
00:20:02,410 --> 00:20:08,980
work very hard to try to minimize this

471
00:20:06,910 --> 00:20:12,130
those fire hoses didn't get hooked up by

472
00:20:08,980 --> 00:20:13,740
themselves those generators didn't just

473
00:20:12,130 --> 00:20:17,309
show up by themselves and a lot of

474
00:20:13,740 --> 00:20:19,710
people have worked very hard to get us

475
00:20:17,308 --> 00:20:22,619
to where we are now and hopefully we're

476
00:20:19,710 --> 00:20:24,779
on the verge of every day getting good

477
00:20:22,619 --> 00:20:27,359
news coming from that site but the newer

478
00:20:24,779 --> 00:20:29,399
designs like the ap1000 I think the

479
00:20:27,359 --> 00:20:32,459
latest design from G is called the EXP

480
00:20:29,400 --> 00:20:35,340
WR have a lot more passive features and

481
00:20:32,460 --> 00:20:37,769
the Westinghouse one is designed to go

482
00:20:35,339 --> 00:20:40,109
72 hours without anybody having to do

483
00:20:37,769 --> 00:20:43,609
anything and no electricity being

484
00:20:40,109 --> 00:20:46,259
required so had we had new Westinghouse

485

00:20:43,609 --> 00:20:47,399
8100 that's using a p1 thousands at this

486
00:20:46,259 --> 00:20:49,558
site we could have gone three days

487
00:20:47,400 --> 00:20:51,390
without needing anyone or any

488
00:20:49,558 --> 00:20:55,319
electricity and we would obviously been

489
00:20:51,390 --> 00:20:57,570
a lot better off than then we were with

490
00:20:55,319 --> 00:21:00,329
the plants of the vintage that that we

491
00:20:57,569 --> 00:21:03,599
have now huh part of the problem here is

492
00:21:00,329 --> 00:21:05,759
not really the design of the plants

493
00:21:03,599 --> 00:21:10,199
clearly the new generations are going to

494
00:21:05,759 --> 00:21:12,029
be better and safer the problem is when

495
00:21:10,200 --> 00:21:14,429
you when you build a planet you design

496
00:21:12,029 --> 00:21:17,490
to a certain design basis certain size

497
00:21:14,429 --> 00:21:18,900
earthquake certain size tsunami you know

498
00:21:17,490 --> 00:21:21,179
all those are taken into account in

499
00:21:18,900 --> 00:21:23,610

terms of how you put the plant together

500

00:21:21,179 --> 00:21:25,650

and somebody asked me a question about

501

00:21:23,609 --> 00:21:28,079

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

502

00:21:25,650 --> 00:21:30,150

place where its Geographic be stable and

503

00:21:28,079 --> 00:21:32,039

one that may be in a place where you

504

00:21:30,150 --> 00:21:34,410

might have a lot of earthquakes and I

505

00:21:32,039 --> 00:21:36,839

had the the plants that I worked out

506

00:21:34,410 --> 00:21:38,640

weren't fairly geologically stable areas

507

00:21:36,839 --> 00:21:41,308

but I had a chance to go do an

508

00:21:38,640 --> 00:21:44,100

inspection at trojan nuclear plant in

509

00:21:41,308 --> 00:21:46,319

Oregon which it's now shut down but

510

00:21:44,099 --> 00:21:47,849

obviously it wasn't at that time and it

511

00:21:46,319 --> 00:21:50,339

was amazing to me to see the differences

512

00:21:47,849 --> 00:21:51,899

in the plants how many additional

513

00:21:50,339 --> 00:21:56,009

supports they had on the piping all

514
00:21:51,900 --> 00:21:56,910
these hydraulic dampers all the

515
00:21:56,009 --> 00:21:59,849
different things that had to be taken

516
00:21:56,910 --> 00:22:02,759
into account because the geology of the

517
00:21:59,849 --> 00:22:05,069
area and the chance for for larger

518
00:22:02,759 --> 00:22:08,069
earthquakes but in this case I don't

519
00:22:05,069 --> 00:22:09,509
know what the actual design basis was

520
00:22:08,069 --> 00:22:11,609
but but nobody planned on a

521
00:22:09,509 --> 00:22:13,859
nine-point-oh mirthquake and certainly

522
00:22:11,609 --> 00:22:16,139
nobody planned on a thirty foot so now

523
00:22:13,859 --> 00:22:18,990
clearly that's what I'm saying whether

524
00:22:16,140 --> 00:22:21,150
or not we would restart units 5 & 6 what

525
00:22:18,990 --> 00:22:22,440
we have to look at and say is is it safe

526
00:22:21,150 --> 00:22:25,710
to restart them even if we could

527
00:22:22,440 --> 00:22:27,450
right given that we now know that we can

528
00:22:25,710 --> 00:22:29,548
have a nine-point-oh mirthquake and a

529
00:22:27,450 --> 00:22:32,308
30-foot tsunami it may turn out that

530
00:22:29,548 --> 00:22:33,450
that particular site is not a place

531
00:22:32,308 --> 00:22:35,970
where you want to have a nuclear power

532
00:22:33,450 --> 00:22:37,710
plant anymore right and and they're

533
00:22:35,970 --> 00:22:40,440
going to have to look at other sites in

534
00:22:37,710 --> 00:22:42,870
Japan I don't know what the site

535
00:22:40,440 --> 00:22:44,730
actually looks at the Fukushima to plant

536
00:22:42,869 --> 00:22:47,038
which is about seven miles away and how

537
00:22:44,730 --> 00:22:49,769
much damage they incurred from the

538
00:22:47,038 --> 00:22:53,069
tsunami and you know what the site looks

539
00:22:49,769 --> 00:22:55,349
like in terms of how well protected that

540
00:22:53,069 --> 00:22:57,418
plan is as well and there may be others

541
00:22:55,349 --> 00:22:59,699
that have to be looked at around the

542

00:22:57,419 --> 00:23:01,830
world in terms of the actual physical

543
00:22:59,700 --> 00:23:04,379
height of the plant and where the safety

544
00:23:01,829 --> 00:23:06,658
equipment is located versus the the

545
00:23:04,378 --> 00:23:08,339
chance of something more significant

546
00:23:06,659 --> 00:23:11,549
than what we originally designed the

547
00:23:08,339 --> 00:23:22,888
plants for well thank you very much for

548
00:23:11,548 --> 00:23:24,509
your time you're welcome hey bro hey bro

549
00:23:22,888 --> 00:23:26,158
what's this message you sent me about a

550
00:23:24,509 --> 00:23:27,538
million dollars skeptic bros don't come

551
00:23:26,159 --> 00:23:29,129
and finally cracked it a detection

552
00:23:27,538 --> 00:23:31,888
device that will prove the existence the

553
00:23:29,128 --> 00:23:35,788
paranormal what let me assure you hey

554
00:23:31,888 --> 00:23:38,878
help why are we in a cupboard check it

555
00:23:35,788 --> 00:23:42,148
out a new placebo band and it's glowing

556
00:23:38,878 --> 00:23:44,250

yes in the dark that's when the ghosts

557

00:23:42,148 --> 00:23:46,768

are rebelled we're gonna win Randy's

558

00:23:44,250 --> 00:23:48,509

million dollars I'm going home let me

559

00:23:46,769 --> 00:23:54,028

out can't go but only opens from the

560

00:23:48,509 --> 00:23:56,669

outside go to scare dick balls get a

561

00:23:54,028 --> 00:24:00,798

glow in the doxy bulb and where you

562

00:23:56,669 --> 00:24:00,799

gonna go skeptic both to talk

563

00:24:03,119 --> 00:24:10,319

here's my not spooky action at a

564

00:24:07,779 --> 00:24:10,319

distance

565

00:24:11,150 --> 00:24:14,759

you can talk about your worlds of

566

00:24:13,170 --> 00:24:16,230

science fiction you can talk about your

567

00:24:14,759 --> 00:24:17,940

star trek you can talk about your star

568

00:24:16,230 --> 00:24:20,490

wars you can fly around the universe in

569

00:24:17,940 --> 00:24:22,620

a blue phone box but when you have one

570

00:24:20,490 --> 00:24:25,980

heart transplanted from one human being

571
00:24:22,619 --> 00:24:27,839
to another and the guy who got it sir

572
00:24:25,980 --> 00:24:28,950
Robbie here man Robbie I've known you

573
00:24:27,839 --> 00:24:30,839
for a while I haven't seen you for a

574
00:24:28,950 --> 00:24:32,490
while only five weeks ago you had

575
00:24:30,839 --> 00:24:35,699
another heart put inside your chest

576
00:24:32,490 --> 00:24:38,339
people with hip operations don't get up

577
00:24:35,700 --> 00:24:41,279
that fast use it what's it like oh my

578
00:24:38,339 --> 00:24:44,639
it's fantastic I mean really for being

579
00:24:41,279 --> 00:24:47,069
so sick and suddenly out of nowhere to

580
00:24:44,640 --> 00:24:48,630
get told you're going to live Robin was

581
00:24:47,069 --> 00:24:50,750
it a degenerative heart disease or a

582
00:24:48,630 --> 00:24:54,180
specific disease you had I'd swine flu

583
00:24:50,750 --> 00:24:57,420
so basically had the flu and from the

584
00:24:54,180 --> 00:25:00,720
flu caused major heart damage and I

585
00:24:57,420 --> 00:25:03,269
don't wait about five times so it was

586
00:25:00,720 --> 00:25:05,130
pretty heavy I mean it was um I just got

587
00:25:03,269 --> 00:25:06,210
a photo with the green Reaper so I had

588
00:25:05,130 --> 00:25:09,000
to get out because was Green River

589
00:25:06,210 --> 00:25:10,350
walking around the convention so I had

590
00:25:09,000 --> 00:25:11,549
to get out one and you got a photo of

591
00:25:10,349 --> 00:25:13,740
yourself giving him the finger know that

592
00:25:11,549 --> 00:25:15,329
yeah not this time buddy because we hear

593
00:25:13,740 --> 00:25:17,160
about how dangerous a swine flu what's

594
00:25:15,329 --> 00:25:19,139
the most people gotta yeah you know most

595
00:25:17,160 --> 00:25:20,550
people I'm not in that group I won't get

596
00:25:19,140 --> 00:25:22,830
back side and everything but you're an

597
00:25:20,549 --> 00:25:25,349
example of the most vulnerable group you

598
00:25:22,829 --> 00:25:26,849
will someone with a problem and spine

599

00:25:25,349 --> 00:25:28,980
flu got you and then you needed a new

600
00:25:26,849 --> 00:25:31,259
heart yeah that's right and remember not

601
00:25:28,980 --> 00:25:33,900
all the scanner it's very sad when you

602
00:25:31,259 --> 00:25:35,609
sit down and go for a clinic and you see

603
00:25:33,900 --> 00:25:37,860
so many people sick with lungs and heart

604
00:25:35,609 --> 00:25:40,439
and how many people waiting and there's

605
00:25:37,859 --> 00:25:41,669
a lot of people waiting so donate I mean

606
00:25:40,440 --> 00:25:43,440
that's the main thing I say to people

607
00:25:41,670 --> 00:25:45,660
talk to your family like the ads go

608
00:25:43,440 --> 00:25:47,309
because at the end of the day even if

609
00:25:45,660 --> 00:25:49,860
you gotten your license or you got your

610
00:25:47,309 --> 00:25:51,839
own card doesn't mean jack because it's

611
00:25:49,859 --> 00:25:54,569
your mum or dad what's your partner's

612
00:25:51,839 --> 00:25:57,029
who make out decision so tell me your

613
00:25:54,569 --> 00:26:00,299

wishes yeah and the fact is a young boy

614

00:25:57,029 --> 00:26:02,639

who died was 25 who gave me a chance to

615

00:26:00,299 --> 00:26:05,569

live I got two children and he gave

616

00:26:02,640 --> 00:26:08,090

seven of us life

617

00:26:05,569 --> 00:26:10,789

and that family worst time in their

618

00:26:08,089 --> 00:26:12,529

lives gave us life Robbie as someone who

619

00:26:10,789 --> 00:26:14,269

has worked their life in sci-fi and

620

00:26:12,529 --> 00:26:16,369

fantasy you died a couple of times

621

00:26:14,269 --> 00:26:18,170

you've been through what only a couple

622

00:26:16,369 --> 00:26:20,809

of years ago would be a scientifically

623

00:26:18,170 --> 00:26:23,029

impossible operation did you see any

624

00:26:20,809 --> 00:26:24,409

bright lights 20 tunnel did the Grim

625

00:26:23,029 --> 00:26:26,059

Reaper come along from you know from

626

00:26:24,410 --> 00:26:28,009

family guy and say hello what was going

627

00:26:26,059 --> 00:26:30,829

on I you know I was waiting to their I

628
00:26:28,009 --> 00:26:33,559
was hoping to see a lie which scares me

629
00:26:30,829 --> 00:26:35,899
because I'm going oh no I didn't see any

630
00:26:33,559 --> 00:26:38,750
like I don't know I just knew it wasn't

631
00:26:35,900 --> 00:26:40,550
my time when they brought my wife in and

632
00:26:38,750 --> 00:26:43,009
this is a true story now this is really

633
00:26:40,549 --> 00:26:45,829
true they said you know do I want to get

634
00:26:43,009 --> 00:26:48,109
my last rites and all and I had a mask

635
00:26:45,829 --> 00:26:49,789
on and I took it down and all the

636
00:26:48,109 --> 00:26:55,039
doctors and nurses are standing I got

637
00:26:49,789 --> 00:26:56,869
jet I night put it back God yeah Alvin

638
00:26:55,039 --> 00:26:59,059
was so serious because they were working

639
00:26:56,869 --> 00:27:00,529
very hard on me and it all cracked up I

640
00:26:59,059 --> 00:27:02,119
thought it was funny it made everyone

641
00:27:00,529 --> 00:27:03,470
calm down a little bit well that's

642
00:27:02,119 --> 00:27:05,209
better than saying atheist because it's

643
00:27:03,470 --> 00:27:06,829
really good it's going to confuse him no

644
00:27:05,210 --> 00:27:10,430
end have we got one of them we got one

645
00:27:06,829 --> 00:27:13,039
downstairs even when I was dying I think

646
00:27:10,430 --> 00:27:14,600
that nerd in me came out for me Maynard

647
00:27:13,039 --> 00:27:16,099
you didn't see me for Cubby's but I was

648
00:27:14,599 --> 00:27:17,839
treated seeking in the end even looking

649
00:27:16,099 --> 00:27:19,819
at you now do when I saw you a couple of

650
00:27:17,839 --> 00:27:21,619
years ago before the colors back in the

651
00:27:19,819 --> 00:27:23,269
face the dark rings it even I've still

652
00:27:21,619 --> 00:27:24,889
got under my eyes are gone under your

653
00:27:23,269 --> 00:27:26,240
eyes they're me so is anything like you

654
00:27:24,890 --> 00:27:27,740
can't do now named got the Hat they're

655
00:27:26,240 --> 00:27:29,359
like you don't want to smoke or drink

656

00:27:27,740 --> 00:27:30,769
too much there you know but you don't

657
00:27:29,359 --> 00:27:33,199
want to do that I mean main thing is

658
00:27:30,769 --> 00:27:35,690
respect my donor and that's a big thing

659
00:27:33,200 --> 00:27:38,180
is they get through our heads we've been

660
00:27:35,690 --> 00:27:40,700
given life I think it bizarre thing was

661
00:27:38,180 --> 00:27:42,140
I was ready to die and i was at that

662
00:27:40,700 --> 00:27:44,840
stage know where i was going to die in

663
00:27:42,140 --> 00:27:47,630
three months and you cite your head up

664
00:27:44,839 --> 00:27:49,609
for death then suddenly they come in and

665
00:27:47,630 --> 00:27:52,670
open a window basically are blind and

666
00:27:49,609 --> 00:27:55,039
say to you go live your life and that's

667
00:27:52,670 --> 00:27:58,070
bizarre because you know you've cited

668
00:27:55,039 --> 00:27:59,839
yourself up because yeah I've been here

669
00:27:58,069 --> 00:28:02,569
I don't ever do that again i wanna i

670
00:27:59,839 --> 00:28:04,009

want to see life the great surgeons are

671

00:28:02,569 --> 00:28:06,230

the great nurses and the people down to

672

00:28:04,009 --> 00:28:08,359

st. Vincent's and what our Aussie

673

00:28:06,230 --> 00:28:09,920

doctors doing and I Z nurses are

674

00:28:08,359 --> 00:28:11,269

fantastic man

675

00:28:09,920 --> 00:28:13,070

yeah we're the best in the world would

676

00:28:11,269 --> 00:28:15,319

mine it's just add seen some of the

677

00:28:13,069 --> 00:28:17,659

equipment mostly equipment is donated

678

00:28:15,319 --> 00:28:19,669

we've got the best in the world and all

679

00:28:17,660 --> 00:28:21,590

our equipments donated Robbie Cano cuz

680

00:28:19,670 --> 00:28:23,600

it's great chatting to you it's great

681

00:28:21,589 --> 00:28:25,369

seeing you up and around only after five

682

00:28:23,599 --> 00:28:27,049

weeks for the new heart many more years

683

00:28:25,369 --> 00:28:28,039

there so 25 year old heart that means

684

00:28:27,049 --> 00:28:29,899

you're gonna live to be a hundred and

685
00:28:28,039 --> 00:28:30,950
seventy there's no hey I hope so you get

686
00:28:29,900 --> 00:28:32,360
anything from the heart people so you

687
00:28:30,950 --> 00:28:34,190
get a heart transplant you get and you

688
00:28:32,359 --> 00:28:35,929
get some of the person's emotions or

689
00:28:34,190 --> 00:28:37,970
something is that true is just the drugs

690
00:28:35,930 --> 00:28:41,180
like you go I don't know that doctors

691
00:28:37,970 --> 00:28:44,150
say no right nurses and transplant

692
00:28:41,180 --> 00:28:45,830
patients say yes so what do you got a 25

693
00:28:44,150 --> 00:28:47,269
year old so have you been hooning in the

694
00:28:45,829 --> 00:28:50,059
car more than normally what's been going

695
00:28:47,269 --> 00:28:53,869
on it dragged much run my thing is I was

696
00:28:50,059 --> 00:28:56,029
a soft drink nut I love coca cola I love

697
00:28:53,869 --> 00:28:58,849
soft drink and I can't tape soft drink

698
00:28:56,029 --> 00:29:01,789
now at all at all I just hate the taste

699

00:28:58,849 --> 00:29:04,339

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

700

00:29:01,789 --> 00:29:08,359

just can't put soft drink I drink fresh

701

00:29:04,339 --> 00:29:09,859

juices water milk which it doesn't sound

702

00:29:08,359 --> 00:29:12,409

like a bad change that sounds like snow

703

00:29:09,859 --> 00:29:15,099

not anymore everyone study there any air

704

00:29:12,410 --> 00:29:17,269

but I mean for me it was that was a

705

00:29:15,099 --> 00:29:21,649

mind-blowing you know and coffee and tea

706

00:29:17,269 --> 00:29:23,859

I'm not into my own coffee shops I can't

707

00:29:21,650 --> 00:29:27,350

drink coffee and I can't drink teas

708

00:29:23,859 --> 00:29:30,109

verbal to you know and that's weird and

709

00:29:27,349 --> 00:29:32,539

the guy who got the lungs was my heat

710

00:29:30,109 --> 00:29:35,599

went in the same time as me some a

711

00:29:32,539 --> 00:29:38,299

double lung guy and he he's been in the

712

00:29:35,599 --> 00:29:40,669

country use a big dutch bug and he's

713

00:29:38,299 --> 00:29:44,119
been here 30 years and he knew he hated

714
00:29:40,670 --> 00:29:46,460
Weetabix and now he's obsessed of eating

715
00:29:44,119 --> 00:29:48,049
Weetabix and he got out in a hospital it

716
00:29:46,460 --> 00:29:50,840
sums me with soft drink I couldn't dream

717
00:29:48,049 --> 00:29:53,599
soft drink so and we've got told our guy

718
00:29:50,839 --> 00:29:55,039
was a very healthy triathlete you never

719
00:29:53,599 --> 00:29:56,629
know and they don't like talking about

720
00:29:55,039 --> 00:29:59,359
it because people get turned off of that

721
00:29:56,630 --> 00:30:03,050
DNA going into someone but all I can say

722
00:29:59,359 --> 00:30:04,490
is that family he lives on in us Robbie

723
00:30:03,049 --> 00:30:05,779
Monica's you obviously going to tell

724
00:30:04,490 --> 00:30:07,430
people to make sure that not only they

725
00:30:05,779 --> 00:30:08,779
tick the donation box on their license

726
00:30:07,430 --> 00:30:10,820
but they discuss it with their family

727
00:30:08,779 --> 00:30:13,460

that's the main thing talk to your mom

728

00:30:10,819 --> 00:30:15,319

and dad talk to you your partner's talk

729

00:30:13,460 --> 00:30:17,269

to your loved ones tell them what your

730

00:30:15,319 --> 00:30:19,460

wishes are because at the end of the day

731

00:30:17,269 --> 00:30:20,639

taking your license doing leaving the

732

00:30:19,460 --> 00:30:23,309

donors card means jack

733

00:30:20,640 --> 00:30:24,509

okay if I don't know your wishes yeah

734

00:30:23,309 --> 00:30:26,819

it's very important because remember

735

00:30:24,509 --> 00:30:29,220

seven people live today because of

736

00:30:26,819 --> 00:30:31,079

someone sat down and talked to their

737

00:30:29,220 --> 00:30:33,269

family five weeks and you up and around

738

00:30:31,079 --> 00:30:36,000

I need to lie down two days after big

739

00:30:33,269 --> 00:30:38,509

weekend yeah no this is great but thank

740

00:30:36,000 --> 00:30:38,509

you my night

741

00:30:51,579 --> 00:30:55,819

astronomy cast it takes a fact-based

742
00:30:53,900 --> 00:30:57,710
journey through the cosmos as it offers

743
00:30:55,819 --> 00:31:00,409
listeners weekly discussions on

744
00:30:57,710 --> 00:31:03,319
astronomical topics ranging from planets

745
00:31:00,410 --> 00:31:05,630
to cosmology hosted by Fraser Cain of

746
00:31:03,319 --> 00:31:06,619
Universe Today and myself dr. Pamela

747
00:31:05,630 --> 00:31:09,290
gave southern illinois university

748
00:31:06,619 --> 00:31:11,179
edwardsville this show brings the

749
00:31:09,289 --> 00:31:13,609
questions of an avid astronomy lover

750
00:31:11,180 --> 00:31:15,710
directly to an astronomer together

751
00:31:13,609 --> 00:31:17,240
Fraser and I explore what is known and

752
00:31:15,710 --> 00:31:20,000
being discovered about the universe

753
00:31:17,240 --> 00:31:22,069
around us join us each week as we take a

754
00:31:20,000 --> 00:31:33,349
fact space journey through the cosmos at

755
00:31:22,069 --> 00:31:36,079
astronomy cast calm here's a clip from

756
00:31:33,349 --> 00:31:39,259
the TV show the circle here in Australia

757
00:31:36,079 --> 00:31:42,939
on channel 10 where the panel discuss

758
00:31:39,259 --> 00:31:42,940
flu vaccinations

759
00:31:52,150 --> 00:31:55,960
circle it's almost flu season and this

760
00:31:54,700 --> 00:31:57,309
year parents are getting some mixed

761
00:31:55,960 --> 00:31:59,440
messages about whether or not to give

762
00:31:57,309 --> 00:32:01,480
their kids a flu shot for her view on

763
00:31:59,440 --> 00:32:09,610
this issue we welcome back to the circle

764
00:32:01,480 --> 00:32:11,049
dr. uncle d for Daniel some experts

765
00:32:09,609 --> 00:32:12,339
saying yes you definitely should and

766
00:32:11,049 --> 00:32:14,680
summer saying you definitely shouldn't

767
00:32:12,339 --> 00:32:16,899
what's your call well look I think that

768
00:32:14,680 --> 00:32:18,840
most Australian doctors would be very

769
00:32:16,900 --> 00:32:21,550
much in favor of vaccinating kids

770

00:32:18,839 --> 00:32:24,339
against the flu especially given that we

771
00:32:21,549 --> 00:32:27,059
still have deaths and definitely quite a

772
00:32:24,339 --> 00:32:30,639
few hospitalizations in kids especially

773
00:32:27,059 --> 00:32:33,369
with flu-like or flu related illness

774
00:32:30,640 --> 00:32:36,400
yeah the controversies come up because

775
00:32:33,369 --> 00:32:39,279
last year with one particular brand of

776
00:32:36,400 --> 00:32:41,830
flu vaccination there was a higher risk

777
00:32:39,279 --> 00:32:44,019
of what we call febrile convulsions it

778
00:32:41,829 --> 00:32:46,089
was about one in every hundred kids

779
00:32:44,019 --> 00:32:50,740
vaccinated under the age of five or so

780
00:32:46,089 --> 00:32:52,359
now this is one particular brand and in

781
00:32:50,740 --> 00:32:54,220
Australia were quite lucky in that as

782
00:32:52,359 --> 00:32:55,599
soon as something like this happens the

783
00:32:54,220 --> 00:32:58,990
TDA the Therapeutic Goods Administration

784
00:32:55,599 --> 00:33:02,109

comes in they recall the batch and they

785

00:32:58,990 --> 00:33:04,990

decide why it happened and how we should

786

00:33:02,109 --> 00:33:07,539

say who safely proceed now it's deemed

787

00:33:04,990 --> 00:33:09,940

safe at the moment that we use the two

788

00:33:07,539 --> 00:33:11,409

other brands of flu vaccination but

789

00:33:09,940 --> 00:33:13,539

certainly that one brand that caused the

790

00:33:11,410 --> 00:33:15,519

problem we're not vaccinating kids

791

00:33:13,539 --> 00:33:17,079

anymore with that brand deeper the thing

792

00:33:15,519 --> 00:33:18,670

i always hear is the way the

793

00:33:17,079 --> 00:33:21,699

vaccinations are grown and sort of

794

00:33:18,670 --> 00:33:23,620

created is by using last year's flu so

795

00:33:21,700 --> 00:33:25,690

there's a whole new batch of yuckie

796

00:33:23,619 --> 00:33:27,729

strains of flu that we're not able to

797

00:33:25,690 --> 00:33:29,140

vaccinate against so it's a little bit

798

00:33:27,730 --> 00:33:32,620

pointless and it's a little bit like a

799

00:33:29,140 --> 00:33:34,390

placebo well we actually know that it

800

00:33:32,619 --> 00:33:37,389

definitely so there's very good research

801

00:33:34,390 --> 00:33:40,000

out to suggest that it does we are able

802

00:33:37,390 --> 00:33:43,210

to predict the strains based on we're

803

00:33:40,000 --> 00:33:45,490

very lucky because europe us they have

804

00:33:43,210 --> 00:33:46,870

the flu before we do and so based on

805

00:33:45,490 --> 00:33:49,299

that we're able to predict the strains

806

00:33:46,869 --> 00:33:51,459

that will most likely be the strains

807

00:33:49,299 --> 00:33:54,609

causing problems unfortunately the flu

808

00:33:51,460 --> 00:33:56,529

the virus changes constantly and so it

809

00:33:54,609 --> 00:33:59,349

changes its surface proteins which means

810

00:33:56,529 --> 00:34:02,170

if it changes and becomes what we call a

811

00:33:59,349 --> 00:34:04,049

pandemic or a new epidemic we can't

812

00:34:02,170 --> 00:34:05,400

actually predict those changes and so

813
00:34:04,049 --> 00:34:09,449
you know there is always a risk that

814
00:34:05,400 --> 00:34:11,039
there will be a new flu but even then

815
00:34:09,449 --> 00:34:13,079
the flu vaccine has been shown to

816
00:34:11,039 --> 00:34:15,090
decrease the severity of those new

817
00:34:13,079 --> 00:34:18,360
manats right yeah it's a bonus doubt

818
00:34:15,090 --> 00:34:20,490
anyone can get an immunization but who

819
00:34:18,360 --> 00:34:21,990
should be getting it yes so at the

820
00:34:20,489 --> 00:34:24,809
moment there's controversy because some

821
00:34:21,989 --> 00:34:26,639
experts are suggesting that we put the

822
00:34:24,809 --> 00:34:28,980
flu vaccination into the current

823
00:34:26,639 --> 00:34:31,589
immunization schedule for children now

824
00:34:28,980 --> 00:34:33,360
that isn't yet the case so whilst it's

825
00:34:31,590 --> 00:34:35,220
recommended for all Australians it's

826
00:34:33,360 --> 00:34:37,349
strongly recommended for certain groups

827

00:34:35,219 --> 00:34:39,149
who are at risk of significant

828
00:34:37,349 --> 00:34:41,519
complications so these are complications

829
00:34:39,150 --> 00:34:43,500
like pneumonia heart problems leave our

830
00:34:41,519 --> 00:34:46,590
problems blood problems because of the

831
00:34:43,500 --> 00:34:48,719
flu these people are anyone over the age

832
00:34:46,590 --> 00:34:50,820
of 65 they should definitely be getting

833
00:34:48,719 --> 00:34:53,609
the flu vaccine and they should be

834
00:34:50,820 --> 00:34:56,519
getting it free indigenous people over

835
00:34:53,610 --> 00:34:58,079
the age of 15 pregnant women and we know

836
00:34:56,519 --> 00:35:01,019
that pregnant women for some reason are

837
00:34:58,079 --> 00:35:02,940
more susceptible to the flu virus and

838
00:35:01,019 --> 00:35:06,780
that can be at any time during their

839
00:35:02,940 --> 00:35:08,610
pregnancy at all and finally anyone over

840
00:35:06,780 --> 00:35:10,710
the age of six months who has a chronic

841
00:35:08,610 --> 00:35:13,349

illness that puts them at that higher

842

00:35:10,710 --> 00:35:16,369

risk so that could include asthma it can

843

00:35:13,349 --> 00:35:18,869

include heart problems it can include

844

00:35:16,369 --> 00:35:20,699

immunity problems that happen like with

845

00:35:18,869 --> 00:35:22,559

diabetes and things so there are a lot

846

00:35:20,699 --> 00:35:24,359

of people in that group who would get a

847

00:35:22,559 --> 00:35:26,670

free vaccination so speak to your GP

848

00:35:24,360 --> 00:35:30,059

about whether or not that's appropriate

849

00:35:26,670 --> 00:35:32,610

for you yeah Georgie had a prim baby yes

850

00:35:30,059 --> 00:35:34,679

what should she get that Molly look

851

00:35:32,610 --> 00:35:36,539

about the age of six months she should

852

00:35:34,679 --> 00:35:38,159

have a really serious discussion with

853

00:35:36,539 --> 00:35:40,500

her GP as to whether or not that's the

854

00:35:38,159 --> 00:35:42,929

best thing for her and it also includes

855

00:35:40,500 --> 00:35:45,389

how much you're amongst other children

856
00:35:42,929 --> 00:35:47,609
how much you're amongst other people who

857
00:35:45,389 --> 00:35:48,900
might be a reservoir for infection how

858
00:35:47,610 --> 00:35:50,760
does it make you feel does it mean if

859
00:35:48,900 --> 00:35:53,880
you little groggy and yuck the flu

860
00:35:50,760 --> 00:35:55,860
vaccination the flu vaccination can give

861
00:35:53,880 --> 00:35:58,019
you what we call a flu-like illness it's

862
00:35:55,860 --> 00:36:00,059
it's not a live virus that can't give

863
00:35:58,019 --> 00:36:01,920
you the flu even if you get a little bit

864
00:36:00,059 --> 00:36:04,039
of favor a little bit of you know

865
00:36:01,920 --> 00:36:06,240
feeling unwell bit of a cough cold

866
00:36:04,039 --> 00:36:08,820
you're not contagious so you're not

867
00:36:06,239 --> 00:36:10,289
going to spread that on to anyone and

868
00:36:08,820 --> 00:36:12,450
that tends to last two or three days

869
00:36:10,289 --> 00:36:15,059
okay yeah I was going to ask exactly the

870
00:36:12,449 --> 00:36:17,399
same question because it is it is it in

871
00:36:15,059 --> 00:36:20,000
fact a small portion

872
00:36:17,400 --> 00:36:23,579
of the flu no it's a it's a change

873
00:36:20,000 --> 00:36:26,489
surface protein so it's been completely

874
00:36:23,579 --> 00:36:28,739
deactivated and it's not a live virus at

875
00:36:26,489 --> 00:36:30,629
all so why do you get a little bit sick

876
00:36:28,739 --> 00:36:33,419
and you get it part of your immune

877
00:36:30,630 --> 00:36:36,720
response so by giving a small portion of

878
00:36:33,420 --> 00:36:38,430
a virus or a change portion of a virus

879
00:36:36,719 --> 00:36:40,319
we're trying to stimulate the immune

880
00:36:38,429 --> 00:36:43,019
response and in doing so unfortunately

881
00:36:40,320 --> 00:36:45,690
you can get those side effects which

882
00:36:43,019 --> 00:36:46,980
again much less severe than the actual

883
00:36:45,690 --> 00:36:49,409
flu the actual flow is quite

884

00:36:46,980 --> 00:36:52,289
debilitating it takes about 7 to 10 days

885
00:36:49,409 --> 00:36:54,690
to get better from it and so it's a very

886
00:36:52,289 --> 00:36:58,039
specific quite debilitating illness and

887
00:36:54,690 --> 00:36:58,039
you get those crusties around your nose

888
00:37:16,369 --> 00:37:20,789
hi I'm on it oh yeah Chris 10 or even

889
00:37:19,199 --> 00:37:22,529
tips advice on lotion lifted off the

890
00:37:20,789 --> 00:37:24,929
skeptic zone I'm skeptical in la liga

891
00:37:22,530 --> 00:37:26,910
the VINs not a blog gear or pub def a

892
00:37:24,929 --> 00:37:29,219
podcast of reading and skip sistemas

893
00:37:26,909 --> 00:37:31,170
leaks in this drama central data skips

894
00:37:29,219 --> 00:37:33,389
estas mo or hyper besides the deeps

895
00:37:31,170 --> 00:37:35,280
corner Chiclets and calendar / activated

896
00:37:33,389 --> 00:37:36,869
or link eternity research it skips this

897
00:37:35,280 --> 00:37:38,280
blog in okla 30 I'm layer or the biscuit

898
00:37:36,869 --> 00:37:40,199

headers hefty performance so stick

899

00:37:38,280 --> 00:37:53,820

kingdom of their Todd Rosa escapes his

900

00:37:40,199 --> 00:37:56,429

dogs hello if only we could look into

901

00:37:53,820 --> 00:37:59,039

the future it's a very interesting topic

902

00:37:56,429 --> 00:38:02,369

and dr. rachey and I a few weeks ago

903

00:37:59,039 --> 00:38:04,920

went to radio 2 GB and discussed this

904

00:38:02,369 --> 00:38:14,429

very topic with our good friend Glen

905

00:38:04,920 --> 00:38:16,680

wheeler Natalie pleaders it's the story

906

00:38:14,429 --> 00:38:19,649

is just getting worse quite frankly as

907

00:38:16,679 --> 00:38:21,449

the death toll rises some 140 550

908

00:38:19,650 --> 00:38:24,030

confirmed dead and still 200 missing

909

00:38:21,449 --> 00:38:26,639

it's it's just an absolute disaster and

910

00:38:24,030 --> 00:38:27,990

in this country alone we've seen parts

911

00:38:26,639 --> 00:38:30,299

of the country ravaged by bush fires

912

00:38:27,989 --> 00:38:33,449

we've had floods we've had the recent

913
00:38:30,300 --> 00:38:35,160
cyclone of course and then on tuesday of

914
00:38:33,449 --> 00:38:37,259
last week a devastating earthquake which

915
00:38:35,159 --> 00:38:38,789
is all but destroyed christchurch

916
00:38:37,260 --> 00:38:40,980
they're saying now a third of the city

917
00:38:38,789 --> 00:38:42,809
will have to be rebuilt on the

918
00:38:40,980 --> 00:38:44,099
international scene of courses there's

919
00:38:42,809 --> 00:38:45,869
been other upheaval there's been

920
00:38:44,099 --> 00:38:49,019
civilian revolutions on a major scale in

921
00:38:45,869 --> 00:38:52,109
Tunisia in Egypt and in Iran so where

922
00:38:49,019 --> 00:38:54,269
are the modern day Nostradamus why

923
00:38:52,110 --> 00:38:56,820
haven't the Guru's of psychic wizardry

924
00:38:54,269 --> 00:38:58,650
been able to foresee such events and be

925
00:38:56,820 --> 00:39:00,059
able to warn people of the impending

926
00:38:58,650 --> 00:39:03,050
dangers and thereby help save lives

927
00:39:00,059 --> 00:39:05,940
surely if the people who purport to be

928
00:39:03,050 --> 00:39:08,400
experts are being able to see the future

929
00:39:05,940 --> 00:39:10,619
and tell us what's going to happen in

930
00:39:08,400 --> 00:39:13,170
the next 12 months surely if they have

931
00:39:10,619 --> 00:39:14,730
fair dinkum then disasters of this girl

932
00:39:13,170 --> 00:39:17,159
should appear on their radar I would

933
00:39:14,730 --> 00:39:18,690
have thought so anyway dr. Rocha Dunlop

934
00:39:17,159 --> 00:39:20,789
and Richard Saunders from the Australian

935
00:39:18,690 --> 00:39:22,170
skeptics join us live in the studio to

936
00:39:20,789 --> 00:39:24,090
discuss it a little bit more detail hi

937
00:39:22,170 --> 00:39:26,940
guys thank you for coming in high Glen

938
00:39:24,090 --> 00:39:28,489
good evening them um how is it that they

939
00:39:26,940 --> 00:39:32,190
can talk to the dead for

940
00:39:28,489 --> 00:39:34,259
fluctuations in currency tell us about

941

00:39:32,190 --> 00:39:36,929
you know Hollywood marriages which they

942
00:39:34,259 --> 00:39:38,699
think will survive or fail according to

943
00:39:36,929 --> 00:39:41,639
how they feel at the time and yet it

944
00:39:38,699 --> 00:39:43,379
would seem to my my reckoning none of

945
00:39:41,639 --> 00:39:44,998
this has been predicted and we're only

946
00:39:43,380 --> 00:39:47,759
we're less than two months into the year

947
00:39:44,998 --> 00:39:50,368
it's been an amazing year as you're

948
00:39:47,759 --> 00:39:53,068
saying newswise just staggering in fact

949
00:39:50,369 --> 00:39:54,630
and you know what when I don't like to

950
00:39:53,068 --> 00:39:57,058
use the word prediction because it's not

951
00:39:54,630 --> 00:39:59,700
a good word it's not accurate I think

952
00:39:57,059 --> 00:40:00,989
the word guessing is the best word we've

953
00:39:59,699 --> 00:40:03,568
got people out there who call themselves

954
00:40:00,989 --> 00:40:05,009
psychics and clairvoyants and every year

955
00:40:03,568 --> 00:40:06,679

at the end of the year towards the end

956

00:40:05,009 --> 00:40:09,599

of the year though we'll make lots of

957

00:40:06,679 --> 00:40:12,690

gases like we all can make lots of

958

00:40:09,599 --> 00:40:15,059

guesses some of those guesses will come

959

00:40:12,690 --> 00:40:17,009

true some of those guesses will be sort

960

00:40:15,059 --> 00:40:19,440

of a bit iffy but they'll say they're

961

00:40:17,009 --> 00:40:22,079

true and most of their guesses in fact

962

00:40:19,440 --> 00:40:25,019

last year last year in their own

963

00:40:22,079 --> 00:40:26,339

magazine the psychics directory I mean

964

00:40:25,018 --> 00:40:29,429

the year before they made all sorts of

965

00:40:26,338 --> 00:40:31,078

predictions for 2010 and we carefully

966

00:40:29,429 --> 00:40:34,038

analyzed all their predictions

967

00:40:31,079 --> 00:40:38,519

Australia's top psychics they got

968

00:40:34,039 --> 00:40:40,380

ninety-three percent wrong so if someone

969

00:40:38,518 --> 00:40:41,758

comes along cousins calls themselves a

970
00:40:40,380 --> 00:40:43,588
psychic clairvoyant and they've got

971
00:40:41,759 --> 00:40:45,809
predictions or guesses for the next year

972
00:40:43,588 --> 00:40:47,728
you can bet your next hot dinner but

973
00:40:45,809 --> 00:40:50,849
they will be something like 90 or eighty

974
00:40:47,728 --> 00:40:52,649
ninety percent wrong absolutely wrong so

975
00:40:50,849 --> 00:40:54,809
it's no surprise course they can't see

976
00:40:52,650 --> 00:40:57,809
these major events coming so so how did

977
00:40:54,809 --> 00:41:00,869
okay but on that basis though how do

978
00:40:57,809 --> 00:41:03,059
they and I did try to make contact with

979
00:41:00,869 --> 00:41:06,269
a couple of you know prominent

980
00:41:03,059 --> 00:41:08,729
well-known prominent psychics to come on

981
00:41:06,268 --> 00:41:11,278
the program tonight and be available by

982
00:41:08,728 --> 00:41:13,798
phone to to basically you know counter

983
00:41:11,278 --> 00:41:15,119
the argument that they can't see the

984
00:41:13,798 --> 00:41:16,559
future because if they could that would

985
00:41:15,119 --> 00:41:19,798
have predicted some of this stuff how

986
00:41:16,559 --> 00:41:22,140
can they purport them to be beside kick

987
00:41:19,798 --> 00:41:25,829
when this sort of stuff on a major major

988
00:41:22,139 --> 00:41:27,389
scale is it happened within two months

989
00:41:25,829 --> 00:41:28,979
of the year I mean it was only December

990
00:41:27,389 --> 00:41:30,420
that we had anybody who was anybody in

991
00:41:28,978 --> 00:41:32,399
the psychic world saying here are my

992
00:41:30,420 --> 00:41:34,349
predictions for 2011 oh and by the way

993
00:41:32,400 --> 00:41:36,660
if you want to buy them it's 55 cents a

994
00:41:34,349 --> 00:41:38,640
minute that's right well the problem is

995
00:41:36,659 --> 00:41:40,139
there nobody checks up on them I mean

996
00:41:38,639 --> 00:41:41,969
wit really we're probably the only

997
00:41:40,139 --> 00:41:44,608
people that bother to read

998

00:41:41,969 --> 00:41:46,829
the 2009 Australian psychics directory

999
00:41:44,608 --> 00:41:49,380
and then look back and see if what

1000
00:41:46,829 --> 00:41:50,880
they've said about 2010 is correct so

1001
00:41:49,380 --> 00:41:52,769
every year they're sort of wheeled out

1002
00:41:50,880 --> 00:41:55,440
onto a current affair or the you know

1003
00:41:52,769 --> 00:41:56,909
the the shows that do that stuff at the

1004
00:41:55,440 --> 00:41:58,530
end of the year but then nobody goes

1005
00:41:56,909 --> 00:42:00,569
back to check so if nobody's going to

1006
00:41:58,530 --> 00:42:03,599
say hey you didn't get it right then no

1007
00:42:00,570 --> 00:42:05,550
one knows so it doesn't matter I I saw

1008
00:42:03,599 --> 00:42:07,890
you sent me through the top predictions

1009
00:42:05,550 --> 00:42:09,570
for 2011 which is really quite

1010
00:42:07,889 --> 00:42:12,509
fascinating the one that I thought was

1011
00:42:09,570 --> 00:42:14,460
just outstanding was by a fella called

1012
00:42:12,510 --> 00:42:16,859

Brett Vollis who I've never heard of but

1013

00:42:14,460 --> 00:42:19,108

obviously in some part of the world he

1014

00:42:16,858 --> 00:42:20,608

must be famous I guess who says Prince

1015

00:42:19,108 --> 00:42:22,049

William and Kate Middleton will confirm

1016

00:42:20,608 --> 00:42:25,880

they are expecting not long after their

1017

00:42:22,050 --> 00:42:29,099

marriage well stop the past amazing

1018

00:42:25,880 --> 00:42:32,900

oppressors Oh hold the phone in other

1019

00:42:29,099 --> 00:42:35,490

news in other news Glenn circles around

1020

00:42:32,900 --> 00:42:37,470

yeah but as you said before this stuff

1021

00:42:35,489 --> 00:42:39,118

is not helpful you know hang on hang on

1022

00:42:37,469 --> 00:42:41,009

no Roger don't get too carried away

1023

00:42:39,119 --> 00:42:42,960

because he goes on to say after he says

1024

00:42:41,010 --> 00:42:44,849

that they are expecting not long after

1025

00:42:42,960 --> 00:42:47,190

their marriage he goes on to say twins

1026

00:42:44,849 --> 00:42:52,019

show up as I wait for this great

1027
00:42:47,190 --> 00:42:54,750
possibility that mean it's going to

1028
00:42:52,019 --> 00:42:56,280
happen or not well I think he's right

1029
00:42:54,750 --> 00:42:59,039
though he is a hundred percent correct

1030
00:42:56,280 --> 00:43:00,839
it's possible it's possibility that

1031
00:42:59,039 --> 00:43:02,608
twins will show up if they do confirm

1032
00:43:00,838 --> 00:43:05,338
they're expecting not long after their

1033
00:43:02,608 --> 00:43:07,348
marriage now not long could be two years

1034
00:43:05,338 --> 00:43:09,358
it could be anything but again if it

1035
00:43:07,349 --> 00:43:11,280
happens if by the end of the year we

1036
00:43:09,358 --> 00:43:13,108
discover that they're expecting twins

1037
00:43:11,280 --> 00:43:15,450
they'll be crowing the psychics will be

1038
00:43:13,108 --> 00:43:18,088
crying if it doesn't happen who's who

1039
00:43:15,449 --> 00:43:22,199
cares it's gone it vaporizes but the one

1040
00:43:18,088 --> 00:43:24,929
that caught my eye was this year someone

1041
00:43:22,199 --> 00:43:26,759
by the name of jade sky made this

1042
00:43:24,929 --> 00:43:27,779
prediction I mean that at the end of

1043
00:43:26,760 --> 00:43:30,660
last year they made this prediction

1044
00:43:27,780 --> 00:43:34,950
major flooding will occur for the

1045
00:43:30,659 --> 00:43:36,719
eastern seaboard of australia until i

1046
00:43:34,949 --> 00:43:39,088
looked at the website of the bureau of

1047
00:43:36,719 --> 00:43:42,480
meteorology and i discovered that major

1048
00:43:39,088 --> 00:43:45,059
flooding occurs every year on the

1049
00:43:42,480 --> 00:43:47,639
eastern seaboard of australia I mean

1050
00:43:45,059 --> 00:43:49,380
it's similar Richard to in 2009 one of

1051
00:43:47,639 --> 00:43:51,029
the psychic said there's going to be an

1052
00:43:49,380 --> 00:43:54,690
earthquake on the San Andreas Fault Line

1053
00:43:51,030 --> 00:43:57,359
Glenn now when isn't it

1054
00:43:54,690 --> 00:44:00,480
I mean at the fault line boy it's called

1055

00:43:57,358 --> 00:44:03,420
the sentence hold on but again I kept

1056
00:44:00,480 --> 00:44:05,280
coming back to this the very serious

1057
00:44:03,420 --> 00:44:07,530
aspect of all of this but right now as

1058
00:44:05,280 --> 00:44:10,769
we sit here and talk about this that

1059
00:44:07,530 --> 00:44:13,410
Christ Church has been decimated by an

1060
00:44:10,769 --> 00:44:15,539
earthquake yep and in none of this

1061
00:44:13,409 --> 00:44:17,429
literature that you've got which you

1062
00:44:15,539 --> 00:44:18,929
know it covers a whole bunch of hot

1063
00:44:17,429 --> 00:44:20,730
predictions for 2011 with so-called

1064
00:44:18,929 --> 00:44:22,679
experts yeah not one of them said

1065
00:44:20,730 --> 00:44:25,230
christchurch new zealand or even

1066
00:44:22,679 --> 00:44:28,230
somewhere in the southern South Pacific

1067
00:44:25,230 --> 00:44:30,858
ya know it well of course as sad as

1068
00:44:28,230 --> 00:44:33,599
Christchurch is and it's desperately sad

1069
00:44:30,858 --> 00:44:35,250

Rachel you've got one there just to

1070

00:44:33,599 --> 00:44:39,630

remind us all that there was a huge

1071

00:44:35,250 --> 00:44:42,659

earthquake in Haiti not so long ago last

1072

00:44:39,630 --> 00:44:44,849

year and as sad as the death toll in New

1073

00:44:42,659 --> 00:44:49,409

Zealand is the death toll in Haiti was

1074

00:44:44,849 --> 00:44:52,710

many many many ways 230,000 I mean you

1075

00:44:49,409 --> 00:44:54,719

can't I'm please i'm not a comparator

1076

00:44:52,710 --> 00:44:57,420

but they didn't see that at all look the

1077

00:44:54,719 --> 00:44:58,919

bottom line is glen these people make

1078

00:44:57,420 --> 00:45:00,659

their living by making lots of

1079

00:44:58,920 --> 00:45:03,599

predictions look where there's that word

1080

00:45:00,659 --> 00:45:05,399

lots of guesses some they'll do you know

1081

00:45:03,599 --> 00:45:07,588

they'll try and get it really specific a

1082

00:45:05,400 --> 00:45:10,108

lot of them are vague and year after

1083

00:45:07,588 --> 00:45:11,789

year after year who cares they just keep

1084
00:45:10,108 --> 00:45:14,400
making their money and making these

1085
00:45:11,789 --> 00:45:16,650
these wild guesses in some situations

1086
00:45:14,400 --> 00:45:18,420
joined in the studio by dr. dr. Rachel

1087
00:45:16,650 --> 00:45:20,250
Dunlop and Richard Saunders from the

1088
00:45:18,420 --> 00:45:22,588
Australian skeptics if you if you have a

1089
00:45:20,250 --> 00:45:24,088
comment or a question that you'd like to

1090
00:45:22,588 --> 00:45:28,440
put to us and jump on the phone right

1091
00:45:24,088 --> 00:45:30,210
now 131 873 is the number 25 29 all

1092
00:45:28,440 --> 00:45:32,670
right Rachel Dunlop and Richard Saunders

1093
00:45:30,210 --> 00:45:34,559
my guests in the studio just talking

1094
00:45:32,670 --> 00:45:38,670
about the fact that we've had all of

1095
00:45:34,559 --> 00:45:40,799
these major earth-shattering devastating

1096
00:45:38,670 --> 00:45:42,088
things happen in less than two months of

1097
00:45:40,800 --> 00:45:44,579
the year and yet none of them saw it

1098
00:45:42,088 --> 00:45:47,639
coming no of course not I mean let's

1099
00:45:44,579 --> 00:45:49,710
let's look at this real in their

1100
00:45:47,639 --> 00:45:51,929
realistic real glasses on here Glenn

1101
00:45:49,710 --> 00:45:53,130
people can't look into the future people

1102
00:45:51,929 --> 00:45:55,230
can make lots of guesses they can make

1103
00:45:53,130 --> 00:45:56,970
educated guesses you know they can

1104
00:45:55,230 --> 00:45:58,199
predict the market that's that's a good

1105
00:45:56,969 --> 00:46:00,088
use of the water we keep coming back to

1106
00:45:58,199 --> 00:46:01,649
the old let's save our Factory and if it

1107
00:46:00,088 --> 00:46:03,269
feels good for you and you like the

1108
00:46:01,650 --> 00:46:04,980
sound of what you're getting go for it

1109
00:46:03,269 --> 00:46:06,420
because one of the one of the psychics

1110
00:46:04,980 --> 00:46:07,769
that I did contact today I left a number

1111
00:46:06,420 --> 00:46:10,110
for him to call

1112

00:46:07,769 --> 00:46:11,579
me I know it on his website says you

1113
00:46:10,110 --> 00:46:13,769
know do apart from all the other

1114
00:46:11,579 --> 00:46:15,360
business about how you can tell you

1115
00:46:13,769 --> 00:46:16,619
what's going on in your life he says do

1116
00:46:15,360 --> 00:46:18,690
you need clarity and guidance in your

1117
00:46:16,619 --> 00:46:20,579
life today if so call one of my team of

1118
00:46:18,690 --> 00:46:22,409
world-rated readers now for a live

1119
00:46:20,579 --> 00:46:24,269
session it's available I should do a

1120
00:46:22,409 --> 00:46:26,579
live right here if so call one of my

1121
00:46:24,269 --> 00:46:27,659
team of well rated readers now for a

1122
00:46:26,579 --> 00:46:29,519
live session it's available

1123
00:46:27,659 --> 00:46:31,409
twenty-four-seven choose from astrology

1124
00:46:29,519 --> 00:46:33,269
Tarot numerology and more whichever

1125
00:46:31,409 --> 00:46:35,399
speaks to your inner wisdom get your

1126
00:46:33,269 --> 00:46:36,929

first 10 minutes for only 59 cents a

1127

00:46:35,400 --> 00:46:40,320

minute by calling just a little bit and

1128

00:46:36,929 --> 00:46:42,690

then only three dollars 95 per minute

1129

00:46:40,320 --> 00:46:44,730

for credit card callers no credit card

1130

00:46:42,690 --> 00:46:46,230

then call us on our new number deducted

1131

00:46:44,730 --> 00:46:48,840

it to speak to the next available reader

1132

00:46:46,230 --> 00:46:50,760

for dollars 95 per minute higher rates

1133

00:46:48,840 --> 00:46:53,460

apply to calls made from a mobile phone

1134

00:46:50,760 --> 00:46:55,170

I just SAT there looked at that when I

1135

00:46:53,460 --> 00:46:58,380

doing this afternoon i thought you know

1136

00:46:55,170 --> 00:47:00,659

at 59 cents a minute and then 395 a

1137

00:46:58,380 --> 00:47:02,340

minute for credit card callers so you

1138

00:47:00,659 --> 00:47:04,230

get the first 10 minutes for 59 cents a

1139

00:47:02,340 --> 00:47:06,570

minute so in that first 10 minutes they

1140

00:47:04,230 --> 00:47:08,099

would be trying to string it out and

1141
00:47:06,570 --> 00:47:10,350
wring it out and draw you in so you've

1142
00:47:08,099 --> 00:47:12,210
spent five dollars 90 yeah out of 10

1143
00:47:10,349 --> 00:47:13,679
minutes and then you're paying three

1144
00:47:12,210 --> 00:47:15,360
dollars 95 a minute so let's say you

1145
00:47:13,679 --> 00:47:16,579
spend in another 10 minutes so a 20

1146
00:47:15,360 --> 00:47:19,740
minute call wouldn't be unrealistic

1147
00:47:16,579 --> 00:47:23,369
another 10 minutes is going to be 3950

1148
00:47:19,739 --> 00:47:25,709
on top of the five dollars 90 so you've

1149
00:47:23,369 --> 00:47:28,730
spent 45 bucks they could ring us it's a

1150
00:47:25,710 --> 00:47:30,869
lot cheaper we'll have a chat to them I

1151
00:47:28,730 --> 00:47:33,929
still come back to the fact that you

1152
00:47:30,869 --> 00:47:36,150
know in the in the common sense of

1153
00:47:33,929 --> 00:47:38,009
day-to-day life if these people really

1154
00:47:36,150 --> 00:47:39,840
could see the future they should be

1155
00:47:38,010 --> 00:47:41,310
waving big flags from the top of

1156
00:47:39,840 --> 00:47:42,750
buildings going guys get out of

1157
00:47:41,309 --> 00:47:44,849
Christchurch there's an earthquake on

1158
00:47:42,750 --> 00:47:47,400
its way get out of North Queensland

1159
00:47:44,849 --> 00:47:49,469
there's a cyclone yeah yeah we've got

1160
00:47:47,400 --> 00:47:53,430
some calls hi Margaret no you're not

1161
00:47:49,469 --> 00:47:57,419
well thank you I mean to see if there's

1162
00:47:53,429 --> 00:48:04,739
any evidence that a premonition can be

1163
00:47:57,420 --> 00:48:09,090
true I'm a skeptic but monday I have a

1164
00:48:04,739 --> 00:48:12,179
friend who is not in any way I think

1165
00:48:09,090 --> 00:48:14,519
she's got powers or anything and she

1166
00:48:12,179 --> 00:48:17,879
rang me quite distressed because she

1167
00:48:14,519 --> 00:48:21,059
said she felt fearful and I said are you

1168
00:48:17,880 --> 00:48:23,160
frightened of somebody and she said no

1169

00:48:21,059 --> 00:48:27,360
that what's the fear about she said I

1170
00:48:23,159 --> 00:48:32,460
don't know I'm just feel like heavy and

1171
00:48:27,360 --> 00:48:36,599
fearful and the very next day we had the

1172
00:48:32,460 --> 00:48:39,780
earthquake in christchurch and I don't

1173
00:48:36,599 --> 00:48:41,969
know whether it was that or what do you

1174
00:48:39,780 --> 00:48:45,150
believe in premonitions well that's

1175
00:48:41,969 --> 00:48:46,679
drawing a very long bow indeed I mean

1176
00:48:45,150 --> 00:48:48,990
she could you could have been related

1177
00:48:46,679 --> 00:48:52,319
that to any sadness around the world or

1178
00:48:48,989 --> 00:48:54,989
any bad event people have uneasy

1179
00:48:52,320 --> 00:48:56,550
feelings from time to time we all do

1180
00:48:54,989 --> 00:49:00,239
it's natural it's it's part of being

1181
00:48:56,550 --> 00:49:02,760
human every now and then one of those

1182
00:49:00,239 --> 00:49:04,889
uneasy feelings will hook up with

1183
00:49:02,760 --> 00:49:06,900

something maybe to have in our personal

1184

00:49:04,889 --> 00:49:09,569
lives all around the world very

1185

00:49:06,900 --> 00:49:10,860
difficult absolutely yes there's also

1186

00:49:09,570 --> 00:49:12,960
something very interesting called the

1187

00:49:10,860 --> 00:49:14,340
law of very large numbers if you have a

1188

00:49:12,960 --> 00:49:15,659
population especially in the United

1189

00:49:14,340 --> 00:49:18,030
States of millions and millions of

1190

00:49:15,659 --> 00:49:20,699
people every night someone will dream

1191

00:49:18,030 --> 00:49:22,530
about a close relative dying and so on

1192

00:49:20,699 --> 00:49:24,389
it'll happen because it has to happen

1193

00:49:22,530 --> 00:49:26,370
because of the huge numbers involved and

1194

00:49:24,389 --> 00:49:28,019
you get to hear about it they say on the

1195

00:49:26,369 --> 00:49:29,730
news today this woman dreamt about her

1196

00:49:28,019 --> 00:49:32,429
husband dying any did and everyone goes

1197

00:49:29,730 --> 00:49:34,050
OH but which is a bit library when

1198
00:49:32,429 --> 00:49:35,279
people say things happen in threes it's

1199
00:49:34,050 --> 00:49:36,360
terrible I've just had a I've learned of

1200
00:49:35,280 --> 00:49:37,650
a death of a friend I've learned of

1201
00:49:36,360 --> 00:49:39,539
somebody else that's been diagnosed with

1202
00:49:37,650 --> 00:49:41,220
cancer I'm hating to see what the third

1203
00:49:39,539 --> 00:49:42,659
ones go to be and you've only got to

1204
00:49:41,219 --> 00:49:43,980
think very quickly and there'll be a

1205
00:49:42,659 --> 00:49:45,629
third thing you can always think of a

1206
00:49:43,980 --> 00:49:47,190
third yeah it's not her it's not hard

1207
00:49:45,630 --> 00:49:48,869
but if there's not eventually you'll

1208
00:49:47,190 --> 00:49:50,610
forget it yeah yeah you only ever

1209
00:49:48,869 --> 00:49:52,650
remember when there are three going not

1210
00:49:50,610 --> 00:49:54,329
when there are no theories exactly

1211
00:49:52,650 --> 00:49:59,070
exactly my go thank you for the call hi

1212
00:49:54,329 --> 00:50:01,110
Donna oh hi Glenn was wondering why you

1213
00:49:59,070 --> 00:50:04,019
haven't got a a psychic in there because

1214
00:50:01,110 --> 00:50:07,860
I think and with your psyche perdition's

1215
00:50:04,019 --> 00:50:09,599
I lie in bed and laugh but because

1216
00:50:07,860 --> 00:50:11,940
there's only one to nine numbers in

1217
00:50:09,599 --> 00:50:14,309
numerology and there's a master number

1218
00:50:11,940 --> 00:50:15,510
of an 11 and a 20 tired yeah I can

1219
00:50:14,309 --> 00:50:17,940
answer your question Donna by saying

1220
00:50:15,510 --> 00:50:19,650
this that I tried and I said before i

1221
00:50:17,940 --> 00:50:21,480
actually have said in this chat i've had

1222
00:50:19,650 --> 00:50:23,910
with these guys tonight that i did put

1223
00:50:21,480 --> 00:50:25,469
the call out to to a number of psychics

1224
00:50:23,909 --> 00:50:28,379
to try and get them on the show tonight

1225
00:50:25,469 --> 00:50:30,269
to counter the argument so i have do

1226

00:50:28,380 --> 00:50:32,849
want me to leave a number of the New

1227
00:50:30,269 --> 00:50:33,980
South Wales carkeek of the year for 2007

1228
00:50:32,849 --> 00:50:35,480
2009

1229
00:50:33,980 --> 00:50:38,269
well you might be surprised to learn

1230
00:50:35,480 --> 00:50:39,769
that I believe one of the one of the

1231
00:50:38,269 --> 00:50:41,570
numbers that I did contact today no

1232
00:50:39,769 --> 00:50:44,119
names no pack drill was the New South

1233
00:50:41,570 --> 00:50:45,470
Wales sake of the Year 2011 I thought it

1234
00:50:44,119 --> 00:50:47,090
was far more relevant than the one from

1235
00:50:45,469 --> 00:50:48,980
two thousand eight and two thousand so

1236
00:50:47,090 --> 00:50:50,119
thank you donna for that but i did leave

1237
00:50:48,980 --> 00:50:51,679
a message and i didn't get a return

1238
00:50:50,119 --> 00:50:53,000
phone call nonetheless maybe they could

1239
00:50:51,679 --> 00:50:54,259
predict what was going to happen they

1240
00:50:53,000 --> 00:50:57,139

should have known that Glenn wanted them

1241
00:50:54,260 --> 00:50:58,850
to come into it guys thank you for

1242
00:50:57,139 --> 00:51:00,349
dropping by two words you just have a

1243
00:50:58,849 --> 00:51:02,599
chat about that I just thought that in

1244
00:51:00,349 --> 00:51:03,769
the in the you know it's one of those

1245
00:51:02,599 --> 00:51:04,789
mixed subjects because in the

1246
00:51:03,769 --> 00:51:06,050
seriousness of what's happening in

1247
00:51:04,789 --> 00:51:07,969
Christchurch at the moment it's just

1248
00:51:06,050 --> 00:51:10,460
just interesting to be able to draw that

1249
00:51:07,969 --> 00:51:12,799
parallel back again to say ok it's all

1250
00:51:10,460 --> 00:51:14,809
well and good for us to look into the

1251
00:51:12,800 --> 00:51:17,060
future and be driven by what psychics

1252
00:51:14,809 --> 00:51:18,320
tell us as yeah that happened the bottom

1253
00:51:17,059 --> 00:51:19,820
line is look if you want to look at

1254
00:51:18,320 --> 00:51:22,430
these magazines and see what the year

1255
00:51:19,820 --> 00:51:24,619
has install please do it with with humor

1256
00:51:22,429 --> 00:51:27,049
and a grain of salt and no it's written

1257
00:51:24,619 --> 00:51:29,809
for entertainment purposes only it is

1258
00:51:27,050 --> 00:51:31,310
not real people cannot look magically

1259
00:51:29,809 --> 00:51:33,739
into the future that has not happened

1260
00:51:31,309 --> 00:51:35,840
and pluck things out and get it

1261
00:51:33,739 --> 00:51:37,459
accurately right except after eleven

1262
00:51:35,840 --> 00:51:40,070
o'clock on this program of course and

1263
00:51:37,460 --> 00:51:41,510
that would be glenn whelan yes who

1264
00:51:40,070 --> 00:51:44,750
hasn't twittered I follow you on twitter

1265
00:51:41,510 --> 00:51:47,480
Glenn what's going on I don't I don't

1266
00:51:44,750 --> 00:51:50,000
tweet I don't have time thanks thanks

1267
00:51:47,480 --> 00:51:51,650
for the observation on the list Rachel

1268
00:51:50,000 --> 00:51:53,239
that dr. Rachel done up and Richard

1269
00:51:51,650 --> 00:51:55,099
Saunders from the Australian skeptics

1270
00:51:53,239 --> 00:51:58,039
and you can check out their website if

1271
00:51:55,099 --> 00:52:00,739
you want the skipped across elliptical

1272
00:51:58,039 --> 00:52:08,090
dodo you www shipping to the cakes with

1273
00:52:00,739 --> 00:52:10,129
a k.com dot aight thanks yours did you

1274
00:52:08,090 --> 00:52:12,350
know Jeff wag participated in an alien

1275
00:52:10,130 --> 00:52:14,240
psychic challenge did you know that

1276
00:52:12,349 --> 00:52:16,429
George Rob is an interstellar singing

1277
00:52:14,239 --> 00:52:18,979
sensation for these and other stories

1278
00:52:16,429 --> 00:52:21,759
you won't hear on the skeptic zone go to

1279
00:52:18,980 --> 00:52:24,829
the bolingbrook babbler that's ww

1280
00:52:21,760 --> 00:52:27,410
bolingbrook babbler com if you have any

1281
00:52:24,829 --> 00:52:29,719
doubts just remember this the SG you

1282
00:52:27,409 --> 00:52:32,299
couldn't debunk any of our stories even

1283

00:52:29,719 --> 00:52:33,618
when we offer them five dollars so read

1284
00:52:32,300 --> 00:52:39,890
the bolingbrook babbler for the

1285
00:52:33,619 --> 00:52:41,990
unbelievable truth that's ww bol ing BR

1286
00:52:39,889 --> 00:52:53,569
OO k be

1287
00:52:41,989 --> 00:52:55,729
a BBL we are calm he is former chief

1288
00:52:53,570 --> 00:52:58,580
executive officer of Australian skeptics

1289
00:52:55,730 --> 00:53:02,059
Barry Williams talking about our famous

1290
00:52:58,579 --> 00:53:04,699
bent spoon award the award given to the

1291
00:53:02,059 --> 00:53:12,529
most preposterous piece of paranormal or

1292
00:53:04,699 --> 00:53:14,089
pseudo scientific people for those who

1293
00:53:12,530 --> 00:53:16,700
are distinguished in the arts and

1294
00:53:14,090 --> 00:53:20,329
sciences there are any number of awards

1295
00:53:16,699 --> 00:53:22,969
the Nobel Prize the Archibald Prize the

1296
00:53:20,329 --> 00:53:26,719
Booker Prize the Eureka prize the

1297
00:53:22,969 --> 00:53:29,029

luggage and many others but let's face

1298

00:53:26,719 --> 00:53:31,279

it there are at least as many cranks

1299

00:53:29,030 --> 00:53:33,830

charlatans and crackpots in the world as

1300

00:53:31,280 --> 00:53:35,650

there are scientists and artists so why

1301

00:53:33,829 --> 00:53:39,829

should they miss out on the big dongs

1302

00:53:35,650 --> 00:53:43,039

that is why back in 1985 we instituted

1303

00:53:39,829 --> 00:53:45,710

the annual bent spoon award the award

1304

00:53:43,039 --> 00:53:47,809

itself is quite a work of art it

1305

00:53:45,710 --> 00:53:50,289

consists of a tastefully bent dessert

1306

00:53:47,809 --> 00:53:53,599

spoon appended lead by psychic forces

1307

00:53:50,289 --> 00:53:55,460

plated with gold originating or so we

1308

00:53:53,599 --> 00:53:58,608

have been told from lesser does lost

1309

00:53:55,460 --> 00:54:00,530

reef and mounted on a polished base made

1310

00:53:58,608 --> 00:54:03,799

from wood that we have no reason to

1311

00:54:00,530 --> 00:54:06,200

believe is not from Noah's Ark curiously

1312
00:54:03,800 --> 00:54:08,119
none of the past winners has managed to

1313
00:54:06,199 --> 00:54:10,519
extract this handsome trophy from our

1314
00:54:08,119 --> 00:54:14,750
care which we stipulate must be

1315
00:54:10,519 --> 00:54:17,119
undertaken only by paranormal means not

1316
00:54:14,750 --> 00:54:19,909
so curious are the reactions of winners

1317
00:54:17,119 --> 00:54:22,160
when informed of their success these

1318
00:54:19,909 --> 00:54:24,889
have ranged from blase indifference to

1319
00:54:22,159 --> 00:54:26,358
outrage and occasionally the sort of

1320
00:54:24,889 --> 00:54:29,079
colorful language worthy of an

1321
00:54:26,358 --> 00:54:31,250
Australian fielding in the slips in

1322
00:54:29,079 --> 00:54:33,349
selecting a worthy recipient of this

1323
00:54:31,250 --> 00:54:34,989
award the judging panel looks for a

1324
00:54:33,349 --> 00:54:38,059
claim that has received widespread

1325
00:54:34,989 --> 00:54:40,789
uncritical coverage that contributes to

1326
00:54:38,059 --> 00:54:42,469
the dumbing down of society that has the

1327
00:54:40,789 --> 00:54:44,869
potential to be either physically or

1328
00:54:42,469 --> 00:54:47,500
financially harmful to many people or

1329
00:54:44,869 --> 00:54:50,690
that preys on the sick and vulnerable to

1330
00:54:47,500 --> 00:54:52,639
be successful they should not be purely

1331
00:54:50,690 --> 00:54:54,740
local but be widespread in their

1332
00:54:52,639 --> 00:54:55,650
influence and we like to keep them

1333
00:54:54,739 --> 00:54:58,500
within an Australian

1334
00:54:55,650 --> 00:55:00,660
context past winners have been a pretty

1335
00:54:58,500 --> 00:55:02,510
eclectic bunch ranging from psychics

1336
00:55:00,659 --> 00:55:05,480
wrongly predicting future events

1337
00:55:02,510 --> 00:55:07,980
channeled into these a psychic dentist

1338
00:55:05,480 --> 00:55:10,309
various media organizations and

1339
00:55:07,980 --> 00:55:12,750
identities for promoting such nonsense

1340

00:55:10,309 --> 00:55:15,299
government agencies employing psychic

1341
00:55:12,750 --> 00:55:16,530
archaeologists or accepting sickly

1342
00:55:15,300 --> 00:55:19,019
certificates from alternative

1343
00:55:16,530 --> 00:55:21,480
practitioners a sporting figure

1344
00:55:19,019 --> 00:55:24,329
promoting energy polarisers to make cars

1345
00:55:21,480 --> 00:55:27,530
work better inventors of free energy

1346
00:55:24,329 --> 00:55:30,029
devices anti immunization activists and

1347
00:55:27,530 --> 00:55:33,300
people claiming to have found noah's ark

1348
00:55:30,030 --> 00:55:36,290
the colossus of rhodes and even one who

1349
00:55:33,300 --> 00:55:38,820
cited mythical atlantis in adelaide

1350
00:55:36,289 --> 00:55:41,550
possibly my favorite past when i was the

1351
00:55:38,820 --> 00:55:43,890
1998 award to an institution of higher

1352
00:55:41,550 --> 00:55:46,740
learning located in northern New South

1353
00:55:43,889 --> 00:55:48,989
Wales that announced a research program

1354
00:55:46,739 --> 00:55:50,929

into the efficacy of various alternative

1355

00:55:48,989 --> 00:55:53,250

health methods while simultaneously

1356

00:55:50,929 --> 00:55:56,489

offering degree courses in the same

1357

00:55:53,250 --> 00:55:58,920

methods a case of putting not only the

1358

00:55:56,489 --> 00:56:02,789

cart but also the harness load and

1359

00:55:58,920 --> 00:56:04,860

driver before the horse most winners

1360

00:56:02,789 --> 00:56:06,300

have made claims that have difficulty in

1361

00:56:04,860 --> 00:56:08,490

withstanding any sort of critical

1362

00:56:06,300 --> 00:56:11,970

analysis or even a small dose of common

1363

00:56:08,489 --> 00:56:14,250

sense our first test is always to apply

1364

00:56:11,969 --> 00:56:17,819

the dictum if it sounds too good to be

1365

00:56:14,250 --> 00:56:20,340

true it almost certainly is it's not an

1366

00:56:17,820 --> 00:56:23,519

infallible test but it is correct far

1367

00:56:20,340 --> 00:56:25,260

more often than not this year we have

1368

00:56:23,519 --> 00:56:27,389

several nominations for commercial

1369
00:56:25,260 --> 00:56:30,840
organizations that have pushed ideas

1370
00:56:27,389 --> 00:56:32,549
based on New Age superstition one is an

1371
00:56:30,840 --> 00:56:35,450
insurance company that claimed that

1372
00:56:32,550 --> 00:56:37,620
driving ability was related to star sign

1373
00:56:35,449 --> 00:56:39,809
more common have been companies

1374
00:56:37,619 --> 00:56:41,670
including one of the big banks with

1375
00:56:39,809 --> 00:56:44,279
their own particular version of Feng

1376
00:56:41,670 --> 00:56:46,500
Shui an ancient Chinese art of

1377
00:56:44,280 --> 00:56:49,340
aesthetics that has been mystified in

1378
00:56:46,500 --> 00:56:52,230
its translation into Western practice

1379
00:56:49,340 --> 00:56:54,180
these nominees promise that Feng Shui

1380
00:56:52,230 --> 00:56:57,389
will promote health wealth and

1381
00:56:54,179 --> 00:57:01,199
well-being if incorporated into the

1382
00:56:57,389 --> 00:57:03,329
design and decor of buildings tell that

1383
00:57:01,199 --> 00:57:05,759
to the investors or creditors of one

1384
00:57:03,329 --> 00:57:07,500
tell which famously designed its

1385
00:57:05,760 --> 00:57:09,120
officers on the advice of thing Shui

1386
00:57:07,500 --> 00:57:11,860
experts

1387
00:57:09,119 --> 00:57:13,809
we also have nominations for various

1388
00:57:11,860 --> 00:57:15,760
media outlets for their unquestioning

1389
00:57:13,809 --> 00:57:18,159
acceptance of assorted dubious

1390
00:57:15,760 --> 00:57:20,680
propositions often alleging health

1391
00:57:18,159 --> 00:57:22,899
benefits and one for the entire

1392
00:57:20,679 --> 00:57:25,029
economics profession though we regard

1393
00:57:22,900 --> 00:57:28,539
that as an incomprehensible rather than

1394
00:57:25,030 --> 00:57:31,000
a paranormal field one hopeful nominator

1395
00:57:28,539 --> 00:57:33,130
has even cited steve wars notorious

1396
00:57:31,000 --> 00:57:36,250
attachment to his battered baggy green

1397

00:57:33,130 --> 00:57:38,590
cap that's not a likely winner however

1398
00:57:36,250 --> 00:57:40,960
as even skeptics can hold something

1399
00:57:38,590 --> 00:57:45,600
sacred and cricket tradition rates

1400
00:57:40,960 --> 00:57:45,599
highly with many of us especially me

1401
00:57:54,360 --> 00:58:00,309
this is desiree host of Canadian radio

1402
00:57:57,190 --> 00:58:02,289
shows skeptically speaking for those of

1403
00:58:00,309 --> 00:58:04,719
you that don't know Kenneth is quite

1404
00:58:02,289 --> 00:58:07,090
similar to Australia people know as

1405
00:58:04,719 --> 00:58:10,109
primarily for our weather and our beer

1406
00:58:07,090 --> 00:58:14,260
and we have a queen just like you do

1407
00:58:10,110 --> 00:58:16,420
same one as you do actually we also have

1408
00:58:14,260 --> 00:58:18,760
mythical monsters and people who think

1409
00:58:16,420 --> 00:58:20,230
they have psychic abilities and people

1410
00:58:18,760 --> 00:58:23,170
who think that vaccinations are bad for

1411
00:58:20,230 --> 00:58:25,269

you so keep listening to the skeptic

1412

00:58:23,170 --> 00:58:27,450

zone and know that we're all in this

1413

00:58:25,269 --> 00:58:27,449

together

1414

00:58:35,420 --> 00:58:40,289

thank you for listening to the skeptic

1415

00:58:37,710 --> 00:58:43,349

zone this week now all those people who

1416

00:58:40,289 --> 00:58:45,360

chip in every week with a 99 cents I

1417

00:58:43,349 --> 00:58:47,940

want you to know that your money has

1418

00:58:45,360 --> 00:58:51,090

gone to a very good use lately I've

1419

00:58:47,940 --> 00:58:53,970

bought our voiceover manju mulcher this

1420

00:58:51,090 --> 00:58:56,579

man welcome to the skeptic zone the

1421

00:58:53,969 --> 00:58:58,819

podcast from Australia for science and

1422

00:58:56,579 --> 00:59:01,019

reason I bought him a brand-new

1423

00:58:58,820 --> 00:59:03,510

professional microphone for his birthday

1424

00:59:01,019 --> 00:59:05,880

and he's going to be using that to do

1425

00:59:03,510 --> 00:59:08,160

more recordings for the skeptic zone so

1426
00:59:05,880 --> 00:59:10,860
thank you listeners thank you to those

1427
00:59:08,159 --> 00:59:13,619
people who contribute your money really

1428
00:59:10,860 --> 00:59:16,019
does get put to good use but for now

1429
00:59:13,619 --> 00:59:22,289
this is Richard Saunders signing off

1430
00:59:16,019 --> 00:59:25,619
from Sydney Australia you've been

1431
00:59:22,289 --> 00:59:30,119
listening to the skeptic zone visit our

1432
00:59:25,619 --> 00:59:32,579
website at www.skeptics.org on TV the

1433
00:59:30,119 --> 00:59:35,239
comments contacts and extra video

1434
00:59:32,579 --> 00:59:35,239
reports