

LIBBE HALEY



everything-else-show.com

1
00:00:06,090 --> 00:00:25,810

[Music]

2
00:00:31,700 --> 00:00:29,600

hey everyone this is Barton Willis your

3
00:00:34,310 --> 00:00:31,710

host how are you welcome to the

4
00:00:37,130 --> 00:00:34,320

everything else show these are every

5
00:00:39,410 --> 00:00:37,140

Monday well varying times on all

6
00:00:41,210 --> 00:00:39,420

different types of topics I encourage

7
00:00:45,619 --> 00:00:41,220

you to check out our website that's

8
00:00:48,439 --> 00:00:45,629

everything hyphen else hyphen show calm

9
00:00:49,700 --> 00:00:48,449

and you'll see on Mondays varying times

10
00:00:51,140 --> 00:00:49,710

that we have all different types of

11
00:00:53,990 --> 00:00:51,150

shows lined up I think we're all the way

12
00:00:57,380 --> 00:00:54,000

into May some interesting topics coming

13
00:01:00,110 --> 00:00:57,390

your way our guest this evening is the

14

00:01:01,910 --> 00:01:00,120

livi have lee i hope i pronounced that

15

00:01:05,389 --> 00:01:01,920

right she'll let me know that's for sure

16

00:01:07,490 --> 00:01:05,399

she runs a great weekly podcast it's

17

00:01:10,100 --> 00:01:07,500

called nuclear hot seat and you can

18

00:01:12,400 --> 00:01:10,110

check that out at nuclear hot seat calm

19

00:01:15,080 --> 00:01:12,410

and if you want to know something about

20

00:01:18,520 --> 00:01:15,090

nuclear around the world check that out

21

00:01:23,810 --> 00:01:18,530

it's a great show interesting guests and

22

00:01:26,180 --> 00:01:23,820

topics from again news recent nuclear

23

00:01:27,589 --> 00:01:26,190

happenings all around the world and I

24

00:01:30,620 --> 00:01:27,599

realized that this is a controversial

25

00:01:33,050 --> 00:01:30,630

subject you know I've gotten into a lot

26
00:01:36,160 --> 00:01:33,060
of heated debates I actually protested

27
00:01:38,809 --> 00:01:36,170
all the way back in the late 1970s and

28
00:01:40,969 --> 00:01:38,819
I've gotten into arguments with family

29
00:01:43,880 --> 00:01:40,979
with friends with the Los Alamos

30
00:01:45,830 --> 00:01:43,890
scientists over the years and my

31
00:01:46,999 --> 00:01:45,840
thoughts about nuclear power first when

32
00:01:50,570 --> 00:01:47,009
I heard about it in high school I

33
00:01:53,150 --> 00:01:50,580
thought it was such a great idea and you

34
00:01:55,999 --> 00:01:53,160
know how little teeny pellet of fuel can

35
00:01:58,430 --> 00:01:56,009
last so long and provide so much power

36
00:02:01,070 --> 00:01:58,440
and then it got into you know submarines

37
00:02:03,919 --> 00:02:01,080
and aircraft carriers and what a great

38
00:02:06,410 --> 00:02:03,929

idea well there are it is great idea but

39

00:02:09,949 --> 00:02:06,420

it's not safe and that's why I'm here to

40

00:02:12,410 --> 00:02:09,959

talk to you about it tonight you know I

41

00:02:15,770 --> 00:02:12,420

often hear parroting words such as

42

00:02:18,949 --> 00:02:15,780

nuclear power is safe well it is safe

43

00:02:22,750 --> 00:02:18,959

but dev there can be outside problems

44

00:02:25,160 --> 00:02:22,760

such as we saw in Fukushima there can be

45

00:02:28,910 --> 00:02:25,170

human error that can cause a lot of

46

00:02:31,850 --> 00:02:28,920

problems and also you hear the other

47

00:02:33,770 --> 00:02:31,860

parroting word is nuclear power is clean

48

00:02:34,580 --> 00:02:33,780

well it's clean while it's running but

49

00:02:36,410 --> 00:02:34,590

there's a word

50

00:02:39,650 --> 00:02:36,420

called waste and waste doesn't sound

51
00:02:41,270 --> 00:02:39,660
like a clean word to me waste is one of

52
00:02:44,750 --> 00:02:41,280
the biggest pet peeves that I have

53
00:02:49,040 --> 00:02:44,760
because it it's basically putting the

54
00:02:52,789 --> 00:02:49,050
burden on people thousands and thousands

55
00:02:56,240 --> 00:02:52,799
of generations ahead to watch over the

56
00:03:00,890 --> 00:02:56,250
waste to make sure that you know it's

57
00:03:02,660 --> 00:03:00,900
not contaminating water sources or you

58
00:03:05,949 --> 00:03:02,670
know a lot of a lot of health problems

59
00:03:08,270 --> 00:03:05,959
can be caused from it and this is

60
00:03:09,740 --> 00:03:08,280
200,000 years this has to be guarded

61
00:03:12,770 --> 00:03:09,750
into the future we can't even fathom

62
00:03:15,350 --> 00:03:12,780
that so just for our hundred years of

63
00:03:18,650 --> 00:03:15,360

use our hundred years I'm going to say

64

00:03:21,140 --> 00:03:18,660

it of selfish use we are putting the

65

00:03:25,400 --> 00:03:21,150

burden on all these thousands of

66

00:03:28,069 --> 00:03:25,410

generations ahead of us I don't think

67

00:03:31,009 --> 00:03:28,079

that is right of us I think it's wrong

68

00:03:33,289 --> 00:03:31,019

and I think we have to think about

69

00:03:37,160 --> 00:03:33,299

something else we are certainly plugged

70

00:03:41,990 --> 00:03:37,170

in to fossil fuels we are addicted like

71

00:03:43,520 --> 00:03:42,000

a baby to the bottle we it just doesn't

72

00:03:45,949 --> 00:03:43,530

seem like there's any way out of it but

73

00:03:49,280 --> 00:03:45,959

there we have to look at four ways out

74

00:03:52,370 --> 00:03:49,290

of it there are there's future

75

00:03:55,490 --> 00:03:52,380

technology we can rely on that there is

76

00:03:57,080 --> 00:03:55,500

a renewable energies I want to talk of

77

00:03:59,420 --> 00:03:57,090

this evening with our guests about that

78

00:04:02,750 --> 00:03:59,430

you know solutions not just the problem

79

00:04:04,280 --> 00:04:02,760

and you know there's also something to

80

00:04:05,900 --> 00:04:04,290

be looking into a lot more I've been

81

00:04:10,670 --> 00:04:05,910

looking into the last couple of days and

82

00:04:14,330 --> 00:04:10,680

it's called a thorium let's see molten

83

00:04:17,750 --> 00:04:14,340

salt reactors it's a sealed component

84

00:04:19,759 --> 00:04:17,760

that needs to be fed new fuel once every

85

00:04:23,150 --> 00:04:19,769

30 years they're working on the

86

00:04:25,010 --> 00:04:23,160

technology now that is a possibility I

87

00:04:26,870 --> 00:04:25,020

don't know I haven't really looked into

88

00:04:31,730 --> 00:04:26,880

deeply and that's something I might even

89

00:04:36,589 --> 00:04:31,740

explore in this show at some point we

90

00:04:38,600 --> 00:04:36,599

also may discuss nuclear weapons because

91

00:04:42,350 --> 00:04:38,610

i think you know building of nuclear

92

00:04:45,020 --> 00:04:42,360

power plants also is causing some

93

00:04:48,439 --> 00:04:45,030

nuclear proliferation all over the world

94

00:04:51,049 --> 00:04:48,449

just the there's just so many ways

95

00:04:52,189 --> 00:04:51,059

that that can happen and lastly we're

96

00:04:56,899 --> 00:04:52,199

going to talk this evening about

97

00:04:58,700 --> 00:04:56,909

Fukushima and it's just the problem that

98

00:05:00,350 --> 00:04:58,710

won't go away you know it's not in the

99

00:05:02,689 --> 00:05:00,360

headlines there was something recently

100

00:05:05,480 --> 00:05:02,699

that actually was kind of a false

101

00:05:07,100 --> 00:05:05,490

reading but it's just something that's

102

00:05:09,649 --> 00:05:07,110

not going to go away and something that

103

00:05:11,869 --> 00:05:09,659

we have to deal with or someone has to

104

00:05:14,390 --> 00:05:11,879

deal with and also the Tokyo Olympics

105

00:05:16,790 --> 00:05:14,400

are coming up not too far down the road

106

00:05:18,469 --> 00:05:16,800

just a few years down the road and what

107

00:05:21,350 --> 00:05:18,479

is all that about we're going to be

108

00:05:25,279 --> 00:05:21,360

talking to our guests as well about that

109

00:05:30,110 --> 00:05:25,289

so the one thing about nuclear power you

110

00:05:32,659 --> 00:05:30,120

know versus fossil fuels is yes fossil

111

00:05:36,529 --> 00:05:32,669

fuels do indeed kill tens of thousands

112

00:05:38,809 --> 00:05:36,539

of people a year through contact of

113

00:05:42,230 --> 00:05:38,819

pollution and stuff like that that is

114

00:05:44,600 --> 00:05:42,240

true that is happening we have to find a

115

00:05:48,950 --> 00:05:44,610

solution nuclear power can certainly

116

00:05:51,200 --> 00:05:48,960

kill every living being on this earth if

117

00:05:53,149 --> 00:05:51,210

things go badly wrong and the

118

00:05:56,360 --> 00:05:53,159

possibilities are there is just too

119

00:05:59,059 --> 00:05:56,370

unsafe I'd like to see it gone from our

120

00:06:02,119 --> 00:05:59,069

society I don't know I'm just uh just

121

00:06:05,420 --> 00:06:02,129

talking here tonight and and we're ready

122

00:06:10,040 --> 00:06:05,430

to introduce our guests and how are you

123

00:06:11,510 --> 00:06:10,050

Libby I I am very well and you were

124

00:06:15,050 --> 00:06:11,520

close you were fifty percent of the way

125

00:06:18,499 --> 00:06:15,060

there it's Libby Haleh v oh okay Lee be

126

00:06:20,089 --> 00:06:18,509

no I ionically type that out and I'd

127

00:06:23,089 --> 00:06:20,099

still hadded still had a little bit of a

128

00:06:24,889 --> 00:06:23,099

problem with it sorry about that solely

129

00:06:27,019 --> 00:06:24,899

be why don't you tell us a little bit

130

00:06:29,629 --> 00:06:27,029

about yourself and what got you

131

00:06:33,320 --> 00:06:29,639

interested in was i'm going to say the

132

00:06:36,980 --> 00:06:33,330

word passionate about this topic well it

133

00:06:40,189 --> 00:06:36,990

was personal and it was a delayed

134

00:06:43,309 --> 00:06:40,199

reaction that i had i have a background

135

00:06:45,230 --> 00:06:43,319

in broadcasting and radio and the

136

00:06:52,010 --> 00:06:45,240

entertainment industry and that's where

137

00:06:53,749 --> 00:06:52,020

i was working and back in 1989 I was

138

00:06:55,489 --> 00:06:53,759

going through something and went back

139

00:06:57,529 --> 00:06:55,499

east it is it a friend of mine I hadn't

140

00:07:00,230 --> 00:06:57,539

seen for a while she had just moved with

141

00:07:01,820 --> 00:07:00,240

her brand-new husband to a small town in

142

00:07:03,710 --> 00:07:01,830

Pennsylvania and when

143

00:07:05,470 --> 00:07:03,720

she welcomed me there she said oh you've

144

00:07:07,520 --> 00:07:05,480

come to the perfect place to cool out

145

00:07:10,280 --> 00:07:07,530

Middletown the name of the town she

146

00:07:12,530 --> 00:07:10,290

lived in is really middle town nothing

147

00:07:14,210 --> 00:07:12,540

important ever happens here and five

148

00:07:15,860 --> 00:07:14,220

days later one mile away from the home

149

00:07:17,900 --> 00:07:15,870

that she and her husband lived in where

150

00:07:21,500 --> 00:07:17,910

I was staying the nuclear reactor at

151
00:07:24,860 --> 00:07:21,510
Three Mile Island malfunctioned and as

152
00:07:26,300 --> 00:07:24,870
you say we mile away yeah was one mile

153
00:07:28,190 --> 00:07:26,310
you walked out the front door it was a

154
00:07:30,470 --> 00:07:28,200
duplex you you walked out the front door

155
00:07:32,000 --> 00:07:30,480
walked one building to the right turn

156
00:07:33,530 --> 00:07:32,010
like this looked up there were the

157
00:07:35,750 --> 00:07:33,540
cooling towers right there hadn't

158
00:07:39,110 --> 00:07:35,760
noticed them before because there is no

159
00:07:41,150 --> 00:07:39,120
need to but suddenly it was the most

160
00:07:42,860 --> 00:07:41,160
compelling thing in our lives except we

161
00:07:44,690 --> 00:07:42,870
were a little slow on the uptake about

162
00:07:47,000 --> 00:07:44,700
it we did not evacuate until the third

163
00:07:50,480 --> 00:07:47,010

day in part because we believed what the

164

00:07:52,550 --> 00:07:50,490

government was saying and when they

165

00:07:55,640 --> 00:07:52,560

decided that gee it's time to evacuate

166

00:07:57,470 --> 00:07:55,650

within five miles that would be me but

167

00:07:58,970 --> 00:07:57,480

my friends were at work there was no

168

00:08:03,140 --> 00:07:58,980

transportation there were certainly no

169

00:08:04,940 --> 00:08:03,150

public transportation there was a car of

170

00:08:07,130 --> 00:08:04,950

some sort I think it was an ambulance

171

00:08:08,540 --> 00:08:07,140

that had a loud speaker in it that was

172

00:08:11,390 --> 00:08:08,550

saying keep your doors and windows

173

00:08:14,360 --> 00:08:11,400

closed do not go outside unless you

174

00:08:17,660 --> 00:08:14,370

absolutely have to not saying what had

175

00:08:21,620 --> 00:08:17,670

happened just saying don't risk it just

176

00:08:23,390 --> 00:08:21,630

stay inside and as you might be able to

177

00:08:25,550 --> 00:08:23,400

imagine if you can project yourself into

178

00:08:27,650 --> 00:08:25,560

this at that time we didn't know if the

179

00:08:29,210 --> 00:08:27,660

thing was going to blow up or not no

180

00:08:31,820 --> 00:08:29,220

idea how much radiation had been

181

00:08:35,390 --> 00:08:31,830

released and I grew up during the Cold

182

00:08:37,070 --> 00:08:35,400

War 1950s era where we learned about

183

00:08:38,600 --> 00:08:37,080

radiation and what the damage was

184

00:08:41,750 --> 00:08:38,610

because the assumption was it was going

185

00:08:44,180 --> 00:08:41,760

to be coming from the Russians so yes

186

00:08:46,490 --> 00:08:44,190

yeah yeah hang on just one minute we're

187

00:08:48,830 --> 00:08:46,500

having some we're having some static

188

00:08:51,890 --> 00:08:48,840

feedback actually it just it just cured

189

00:08:53,120 --> 00:08:51,900

itself so keep keep on going sorry I'll

190

00:08:55,430 --> 00:08:53,130

see if getting closer to the light I

191

00:08:56,780 --> 00:08:55,440

might notice i'm going to i'm going to

192

00:09:00,860 --> 00:08:56,790

what i'm going to do is hang in everyone

193

00:09:03,590 --> 00:09:00,870

I'm going to hang up with you and recall

194

00:09:05,750 --> 00:09:03,600

you back and we'll just see if we can

195

00:09:09,560 --> 00:09:05,760

get this straightened out ok ok calling

196

00:09:11,090 --> 00:09:09,570

you be calling you right back ok hang

197

00:09:12,710 --> 00:09:11,100

and everyone that happens every once in

198

00:09:14,990 --> 00:09:12,720

a while like believe it's a skype issue

199

00:09:15,620 --> 00:09:15,000

and we're just going to give this

200

00:09:18,380 --> 00:09:15,630

another try

201
00:09:21,470 --> 00:09:18,390
here see what happens okay say hello

202
00:09:24,350 --> 00:09:21,480
hello that is better i hope this doesn't

203
00:09:27,770 --> 00:09:24,360
happen again but okay so I interrupted

204
00:09:30,950 --> 00:09:27,780
you you're you're you're a few you're a

205
00:09:33,260 --> 00:09:30,960
mile away from Three Mile Island and did

206
00:09:37,700 --> 00:09:33,270
you have panic did you panic at that

207
00:09:40,160 --> 00:09:37,710
point or did it not really hit you oh it

208
00:09:42,320 --> 00:09:40,170
hit profoundly it was like everything I

209
00:09:46,670 --> 00:09:42,330
had been made afraid of in the 1950s

210
00:09:49,010 --> 00:09:46,680
growing up about nuclear came right

211
00:09:51,020 --> 00:09:49,020
smack up in my face and was only one

212
00:09:52,370 --> 00:09:51,030
mile away with no transportation the

213
00:09:54,080 --> 00:09:52,380

house didn't even had a base have a

214

00:09:56,240 --> 00:09:54,090

basement where I could hide from the

215

00:09:59,360 --> 00:09:56,250

radiation or a blast if it was going to

216

00:10:01,850 --> 00:09:59,370

happen and it took me I think pretty

217

00:10:04,940 --> 00:10:01,860

much to the brink of madness because of

218

00:10:07,880 --> 00:10:04,950

the pressure the not knowing am I about

219

00:10:10,150 --> 00:10:07,890

to die will I know that I'm about to die

220

00:10:13,250 --> 00:10:10,160

will I have like a second of awareness

221

00:10:14,810 --> 00:10:13,260

before this actually happens I tried

222

00:10:17,210 --> 00:10:14,820

making phone calls the phones were

223

00:10:19,130 --> 00:10:17,220

completely overloaded and you could not

224

00:10:21,070 --> 00:10:19,140

get a line out so I couldn't even talk

225

00:10:26,600 --> 00:10:21,080

with somebody who is out of the area it

226

00:10:29,750 --> 00:10:26,610

was the definition of terrifying and and

227

00:10:31,670 --> 00:10:29,760

I have tried for years to come up with

228

00:10:34,250 --> 00:10:31,680

the right words to explain exactly how

229

00:10:37,040 --> 00:10:34,260

bad it is I'm finishing up a new draft

230

00:10:39,050 --> 00:10:37,050

of my book which was an e-book and that

231

00:10:43,970 --> 00:10:39,060

will be coming out that's called yes I

232

00:10:45,410 --> 00:10:43,980

glow in the dark but it took my friends

233

00:10:47,000 --> 00:10:45,420

a couple of hours before they were able

234

00:10:49,730 --> 00:10:47,010

to coordinate with each other and come

235

00:10:52,820 --> 00:10:49,740

and pick me up we evacuated but from

236

00:10:55,640 --> 00:10:52,830

that point on it was post-traumatic

237

00:10:57,500 --> 00:10:55,650

stress that I was dealing with not that

238

00:10:59,540 --> 00:10:57,510

we knew what the term was back then but

239

00:11:03,620 --> 00:10:59,550

the terror had been so overwhelming

240

00:11:06,020 --> 00:11:03,630

nobody ever was able to measure what the

241

00:11:08,810 --> 00:11:06,030

actual radiation was that was released

242

00:11:12,680 --> 00:11:08,820

because the monitors that were supposed

243

00:11:14,150 --> 00:11:12,690

to she measure this had not function and

244

00:11:16,070 --> 00:11:14,160

I just thought oh it was the lowest

245

00:11:17,150 --> 00:11:16,080

bidder for the government and you know

246

00:11:18,980 --> 00:11:17,160

in a kind of broke it was like a

247

00:11:21,230 --> 00:11:18,990

thermostat thing no it was at the

248

00:11:22,400 --> 00:11:21,240

radiation level was so high that one of

249

00:11:24,260 --> 00:11:22,410

the first things that happened was that

250

00:11:27,470 --> 00:11:24,270

the radiation meters at Three Mile

251
00:11:28,820 --> 00:11:27,480
Island fried they stopped working

252
00:11:29,260 --> 00:11:28,830
because they were overloaded with the

253
00:11:31,390 --> 00:11:29,270
radio

254
00:11:33,670 --> 00:11:31,400
so nobody could tell me what I was

255
00:11:36,280 --> 00:11:33,680
exposed to how much it was how bad it

256
00:11:39,610 --> 00:11:36,290
was what it was doing to my body I did

257
00:11:41,710 --> 00:11:39,620
upon my return to Los Angeles I was

258
00:11:43,030 --> 00:11:41,720
writing for publication at that point

259
00:11:45,100 --> 00:11:43,040
and they had the previous week published

260
00:11:48,760 --> 00:11:45,110
an article by dr. Helen Caldicott who I

261
00:11:52,060 --> 00:11:48,770
had not heard of before she is probably

262
00:11:54,370 --> 00:11:52,070
the premier activists against nuclear in

263
00:11:57,640 --> 00:11:54,380

the world as well as a nominee for the

264

00:11:59,740 --> 00:11:57,650

Nobel Peace Prize and in it she said

265

00:12:01,600 --> 00:11:59,750

well because they were saying low-level

266

00:12:03,400 --> 00:12:01,610

radiation and I thought oh great it's

267

00:12:05,650 --> 00:12:03,410

only low-level radiation doesn't sound

268

00:12:08,050 --> 00:12:05,660

so bad she pointed out in the article

269

00:12:12,010 --> 00:12:08,060

that exposure to even low-level

270

00:12:14,350 --> 00:12:12,020

radiation can result in thyroid cancer

271

00:12:18,190 --> 00:12:14,360

or leukemia in three to five years and

272

00:12:22,150 --> 00:12:18,200

hard tumors anytime at that point she

273

00:12:24,220 --> 00:12:22,160

was saying anytime in the next 50 in 15

274

00:12:25,600 --> 00:12:24,230

years that I could have hard tumors and

275

00:12:27,250 --> 00:12:25,610

I thought that was like a deadline that

276

00:12:31,300 --> 00:12:27,260

if I got beyond that 15 years without

277

00:12:34,210 --> 00:12:31,310

any hard tumors I would be fine um but I

278

00:12:36,370 --> 00:12:34,220

was wiggled-out I mean I hate I couldn't

279

00:12:38,080 --> 00:12:36,380

concentrate I was overwhelmed anything

280

00:12:40,720 --> 00:12:38,090

you've heard about post-traumatic stress

281

00:12:43,330 --> 00:12:40,730

that's what I was going through and I

282

00:12:44,950 --> 00:12:43,340

just couldn't pull my life back together

283

00:12:47,260 --> 00:12:44,960

again the way I've been living before

284

00:12:50,020 --> 00:12:47,270

was completely impossible after this

285

00:12:52,270 --> 00:12:50,030

happened and I ended up leaving the

286

00:12:54,390 --> 00:12:52,280

country changing my life pretty

287

00:12:57,040 --> 00:12:54,400

thoroughly and going down different

288

00:12:58,780 --> 00:12:57,050

avenues in my life including the

289

00:13:01,210 --> 00:12:58,790

decision not to have children because

290

00:13:05,470 --> 00:13:01,220

nobody could tell me what the potential

291

00:13:07,870 --> 00:13:05,480

damage was to my DNA and I'd seen all

292

00:13:11,200 --> 00:13:07,880

those horrible pictures when I that when

293

00:13:12,730 --> 00:13:11,210

i was when i was in grammar school in

294

00:13:15,970 --> 00:13:12,740

high school because they showed them to

295

00:13:19,480 --> 00:13:15,980

us back then and i didn't want to risk

296

00:13:21,400 --> 00:13:19,490

it so there were huge changes for me but

297

00:13:24,310 --> 00:13:21,410

i did not become involved in the

298

00:13:25,960 --> 00:13:24,320

anti-nuclear movement I tried but the

299

00:13:28,060 --> 00:13:25,970

post traumatic stress made it impossible

300

00:13:30,670 --> 00:13:28,070

for me to do so it was just it was too

301
00:13:32,920 --> 00:13:30,680
overwhelming to see people making the

302
00:13:34,480 --> 00:13:32,930
cooling towers of Three Mile Island as

303
00:13:39,010 --> 00:13:34,490
candles so you could have your own

304
00:13:42,180 --> 00:13:39,020
meltdown ah so I I wasn't in the mood

305
00:13:44,070 --> 00:13:42,190
for that and it wasn't and

306
00:13:45,330 --> 00:13:44,080
till I mean I'd ignored Chernobyl when

307
00:13:47,430 --> 00:13:45,340
it happened because I went oh

308
00:13:48,990 --> 00:13:47,440
everybody's afraid of nuclear now I've

309
00:13:50,580 --> 00:13:49,000
been afraid of nuclear I don't have to

310
00:13:53,760 --> 00:13:50,590
be afraid of nuclear again and I

311
00:13:55,950 --> 00:13:53,770
completely blocked it out but when

312
00:13:58,530 --> 00:13:55,960
Fukushima happened it was a very

313
00:14:00,600 --> 00:13:58,540

different experience I like to say that

314

00:14:02,240 --> 00:14:00,610

three mile island mule kicked me out of

315

00:14:06,620 --> 00:14:02,250

the life that I had been living and

316

00:14:09,210 --> 00:14:06,630

Fukushima mule kicked me back in and I

317

00:14:12,600 --> 00:14:09,220

started applying my skills as an

318

00:14:14,040 --> 00:14:12,610

activist to the one thing that I find is

319

00:14:16,200 --> 00:14:14,050

my calling in the world and that is

320

00:14:18,690 --> 00:14:16,210

communication and doing everything I

321

00:14:20,520 --> 00:14:18,700

could to communicate what I knew that

322

00:14:22,830 --> 00:14:20,530

people didn't know and then started

323

00:14:25,410 --> 00:14:22,840

learning more and about three months

324

00:14:27,960 --> 00:14:25,420

after Fukushima happened I got the hip

325

00:14:30,210 --> 00:14:27,970

to do a podcast I'd never done a podcast

326

00:14:31,680 --> 00:14:30,220

but I went was kind of like like this

327

00:14:33,570 --> 00:14:31,690

thought came to me and I couldn't get

328

00:14:35,520 --> 00:14:33,580

rid of it and I went ok I'll do a

329

00:14:38,370 --> 00:14:35,530

podcast and that was over five and a

330

00:14:41,850 --> 00:14:38,380

half years ago well how about that going

331

00:14:43,980 --> 00:14:41,860

back to Chernobyl Chernobyl I consider

332

00:14:47,670 --> 00:14:43,990

that that's probably the worst disaster

333

00:14:51,210 --> 00:14:47,680

of all I would mad I imagine so far now

334

00:14:53,970 --> 00:14:51,220

be fukushima i actually got into

335

00:14:56,940 --> 00:14:53,980

arguments with the bureau chief of the

336

00:14:59,280 --> 00:14:56,950

new york times in japan because in the

337

00:15:01,020 --> 00:14:59,290

early days they were saying and they

338

00:15:04,310 --> 00:15:01,030

continue to say this is the worst since

339

00:15:08,730 --> 00:15:04,320

Chernobyl but consider Chernobyl was a

340

00:15:10,470 --> 00:15:08,740

single nuclear reactor that did explode

341

00:15:14,580 --> 00:15:10,480

there was horrible contamination that

342

00:15:17,430 --> 00:15:14,590

came out at Fukushima we've got that x 3

343

00:15:20,010 --> 00:15:17,440

we've got another street there are three

344

00:15:22,440 --> 00:15:20,020

there's rods that we still have to worry

345

00:15:24,510 --> 00:15:22,450

about I want to get into Fukushima a lot

346

00:15:28,640 --> 00:15:24,520

but I do I just want to tell this a

347

00:15:32,430 --> 00:15:28,650

quick story about Chernobyl my friends

348

00:15:36,900 --> 00:15:32,440

my girlfriend's father was fishing in

349

00:15:39,270 --> 00:15:36,910

the area of Chernobyl not far away at

350

00:15:41,610 --> 00:15:39,280

all at one point he was like the next

351

00:15:46,829 --> 00:15:41,620

town over there fishing for a couple of

352

00:15:50,160 --> 00:15:46,839

days he he was driving the car away from

353

00:15:52,920 --> 00:15:50,170

there when it started to rain there were

354

00:15:55,170 --> 00:15:52,930

two other people in the car and they

355

00:15:55,860 --> 00:15:55,180

were young one was 23 i think it was in

356

00:15:58,350 --> 00:15:55,870

the other one

357

00:15:59,700 --> 00:15:58,360

almost 30 and they're both like really

358

00:16:01,500 --> 00:15:59,710

drinking a lot so they got out to

359

00:16:04,320 --> 00:16:01,510

relieve themselves and when they did

360

00:16:07,290 --> 00:16:04,330

they went down toward a river and they

361

00:16:09,780 --> 00:16:07,300

saw it was full of dead fish well within

362

00:16:12,870 --> 00:16:09,790

three months the 23 year old died of

363

00:16:16,350 --> 00:16:12,880

leukemia and within one year the 30 year

364

00:16:18,120 --> 00:16:16,360

old died of leukemia and you know my

365

00:16:20,700 --> 00:16:18,130

girlfriend's father was in the car the

366

00:16:22,650 --> 00:16:20,710

whole time and how lucky is that I mean

367

00:16:26,250 --> 00:16:22,660

could it have been rain could it be a

368

00:16:28,680 --> 00:16:26,260

coincidence it's awful hard to say one

369

00:16:30,810 --> 00:16:28,690

of the things that happens with rain is

370

00:16:32,579 --> 00:16:30,820

that if there is contamination in the

371

00:16:34,920 --> 00:16:32,589

air going all the way up to the jet

372

00:16:38,010 --> 00:16:34,930

stream where we have the radioactive

373

00:16:40,380 --> 00:16:38,020

remnants of every atmospheric bomb blast

374

00:16:42,750 --> 00:16:40,390

that's ever taken place from the Trinity

375

00:16:45,180 --> 00:16:42,760

test Hiroshima and Nagasaki and through

376

00:16:47,640 --> 00:16:45,190

all those hundreds if not no it was

377

00:16:49,980 --> 00:16:47,650

thousands of atmospheric tests that took

378

00:16:51,450 --> 00:16:49,990

place in the 50s and 60s there's still

379

00:16:54,870 --> 00:16:51,460

particulate matter up there and

380

00:16:59,579 --> 00:16:54,880

raindrops form around particulate matter

381

00:17:01,860 --> 00:16:59,589

so if the moisture comes in contact with

382

00:17:04,829 --> 00:17:01,870

radioactive particles it comes down to

383

00:17:06,929 --> 00:17:04,839

earth as a rainout if this was Chernobyl

384

00:17:09,449 --> 00:17:06,939

and it was how long after the accident

385

00:17:12,660 --> 00:17:09,459

took place it was it was he was there

386

00:17:14,280 --> 00:17:12,670

during the accident he really yeah well

387

00:17:16,530 --> 00:17:14,290

yeah I know that was Russia back then

388

00:17:18,780 --> 00:17:16,540

but if it was three months afterwards

389

00:17:21,150 --> 00:17:18,790

there was all kinds of dust and

390

00:17:22,710 --> 00:17:21,160

particulate matter the dead fish should

391

00:17:26,549 --> 00:17:22,720

have been a dead giveaway you should

392

00:17:28,260 --> 00:17:26,559

pardon the inadvertent pun and I have no

393

00:17:32,370 --> 00:17:28,270

doubt but that that is a direct

394

00:17:33,930 --> 00:17:32,380

connection because we still show here at

395

00:17:35,880 --> 00:17:33,940

various places around the country

396

00:17:37,919 --> 00:17:35,890

especially here on the west coast when

397

00:17:41,250 --> 00:17:37,929

we've had these heavy rains recently i

398

00:17:43,680 --> 00:17:41,260

have received email from people who have

399

00:17:45,570 --> 00:17:43,690

their own monitors their own radiation

400

00:17:48,690 --> 00:17:45,580

monitors saying did you know that the

401

00:17:51,780 --> 00:17:48,700

radiation level is up in some town or

402

00:17:55,650 --> 00:17:51,790

another along the west coast and this is

403

00:17:57,950 --> 00:17:55,660

in at the same time that the rain storm

404

00:18:00,240 --> 00:17:57,960

is happening so the assumption is that

405

00:18:01,770 --> 00:18:00,250

the rain brought down some more

406

00:18:03,210 --> 00:18:01,780

radioactive particulate matter and

407

00:18:08,310 --> 00:18:03,220

that's why we've seen a spike in the

408

00:18:09,560 --> 00:18:08,320

radiation levels that's funny someone

409

00:18:11,330 --> 00:18:09,570

just messaged me on the best

410

00:18:13,340 --> 00:18:11,340

toward a really funny message do you

411

00:18:16,940 --> 00:18:13,350

remember I contacted you while I was in

412

00:18:19,460 --> 00:18:16,950

Russia last year Hennis you say sorry

413

00:18:22,130 --> 00:18:19,470

I'm sorry it's it's a vague thing in

414

00:18:24,830 --> 00:18:22,140

there but yeah be more forthcoming no no

415

00:18:26,420 --> 00:18:24,840

it's up I thought I saw a cooling tower

416

00:18:29,330 --> 00:18:26,430

I did see cooling towers right outside

417

00:18:31,790 --> 00:18:29,340

of Moscow I thought it was nuclear but I

418

00:18:34,970 --> 00:18:31,800

was told it was something else and do

419

00:18:36,620 --> 00:18:34,980

other other power plants use cooling

420

00:18:40,190 --> 00:18:36,630

towers that look just like nuclear ones

421

00:18:43,730 --> 00:18:40,200

are you aware of that I believe so I'm

422

00:18:45,350 --> 00:18:43,740

not an expert on anything other than you

423

00:18:48,140 --> 00:18:45,360

know the expertise I have gained on

424

00:18:50,270 --> 00:18:48,150

nuclear but I believe that that

425

00:18:52,910 --> 00:18:50,280

structure is something that can be used

426

00:18:57,020 --> 00:18:52,920

for other facilities as well yeah yeah

427

00:18:59,810 --> 00:18:57,030

okay well what do you think about waste

428

00:19:02,750 --> 00:18:59,820

now I understand that waste was dumped

429

00:19:04,970 --> 00:19:02,760

in barrels into the sea for 50 years all

430

00:19:06,830 --> 00:19:04,980

the way until nineteen ninety-three just

431

00:19:08,900 --> 00:19:06,840

jumped overboard I know Greenpeace tried

432

00:19:11,630 --> 00:19:08,910

to stop it they eventually did stop it

433

00:19:14,420 --> 00:19:11,640

they're the reason that it actually a

434

00:19:16,580 --> 00:19:14,430

dead stop but we have these barrels in

435

00:19:19,280 --> 00:19:16,590

the sea some of them are all the way

436

00:19:24,440 --> 00:19:19,290

down to 4,000 meters but some of them

437

00:19:27,670 --> 00:19:24,450

are only 150 meters deep what is going

438

00:19:30,080 --> 00:19:27,680

to happen to all that radiation barrels

439

00:19:33,200 --> 00:19:30,090

all those radiation barrels because they

440

00:19:37,100 --> 00:19:33,210

can't stay whole forever I mean metal

441

00:19:39,020 --> 00:19:37,110

does rust it corrodes and how can they

442

00:19:40,580 --> 00:19:39,030

how could they possibly have done that I

443

00:19:45,520 --> 00:19:40,590

mean in the first place it's just so

444

00:19:48,260 --> 00:19:45,530

bizarre the negligence the criminal the

445

00:19:52,010 --> 00:19:48,270

planetary wide criminal negligence of

446

00:19:54,230 --> 00:19:52,020

the nuclear industry is something that's

447

00:19:56,480 --> 00:19:54,240

really hard to believe I mean unless

448

00:19:58,400 --> 00:19:56,490

they have joined I'm saying this

449

00:20:00,470 --> 00:19:58,410

facetiously some evil cult where they

450

00:20:01,610 --> 00:20:00,480

have pledged that the bottom line for

451
00:20:03,350 --> 00:20:01,620
what they're going for is the total

452
00:20:06,020 --> 00:20:03,360
destruction of the planet I have no idea

453
00:20:09,950 --> 00:20:06,030
how they can justify their action we

454
00:20:11,870 --> 00:20:09,960
know that the uranium mining that was

455
00:20:14,540 --> 00:20:11,880
done even going back into I believe it

456
00:20:17,060 --> 00:20:14,550
started in the 20s or the 30s native

457
00:20:19,340 --> 00:20:17,070
lands in the western United States they

458
00:20:21,320 --> 00:20:19,350
didn't tell anybody what was being dug

459
00:20:23,030 --> 00:20:21,330
up they left behind all kinds of

460
00:20:23,360 --> 00:20:23,040
tailings people were contaminated they

461
00:20:25,700 --> 00:20:23,370
had

462
00:20:27,500 --> 00:20:25,710
radioactive dust on their clothes they

463
00:20:29,960 --> 00:20:27,510

brought it into their homes and their

464

00:20:32,299 --> 00:20:29,970

families and then the cancer rates X

465

00:20:34,570 --> 00:20:32,309

number of years later start to soar but

466

00:20:39,230 --> 00:20:34,580

nobody can figure out why quote unquote

467

00:20:43,220 --> 00:20:39,240

we have the what was done starting in

468

00:20:45,380 --> 00:20:43,230

1942 to purify the uranium so that it

469

00:20:47,810 --> 00:20:45,390

could be used in the atom bombs well

470

00:20:49,910 --> 00:20:47,820

this was being done secretly of course

471

00:20:52,220 --> 00:20:49,920

it was all Manhattan Project but the

472

00:20:55,400 --> 00:20:52,230

places where it was being done there was

473

00:20:57,919 --> 00:20:55,410

radioactive waste that was being created

474

00:21:00,140 --> 00:20:57,929

that they were just dumping in North st.

475

00:21:03,100 --> 00:21:00,150

Louis they have a legacy waste problem

476

00:21:06,680 --> 00:21:03,110

there that is horrific there was a

477

00:21:09,919 --> 00:21:06,690

company called mallinckrodt that did the

478

00:21:13,760 --> 00:21:09,929

production of the I think was the

479

00:21:16,010 --> 00:21:13,770

triggers for the nuclear bomb and with

480

00:21:18,549 --> 00:21:16,020

the waste that they had they just put it

481

00:21:21,320 --> 00:21:18,559

in a pile next to st. Louis Airport and

482

00:21:23,150 --> 00:21:21,330

had it some of it was under tarps a lot

483

00:21:25,280 --> 00:21:23,160

of it wasn't it blew around they would

484

00:21:28,640 --> 00:21:25,290

transport it there in dump trucks that

485

00:21:30,049 --> 00:21:28,650

were not in any way secured and so dust

486

00:21:31,700 --> 00:21:30,059

would blow off the trucks and

487

00:21:34,780 --> 00:21:31,710

contaminate on either side of the road

488

00:21:38,960 --> 00:21:34,790

this is all documented by the way in

489

00:21:41,660 --> 00:21:38,970

1972 the pile from laddie Avenue from

490

00:21:45,140 --> 00:21:41,670

next to the airport all of that was sold

491

00:21:48,020 --> 00:21:45,150

for a dollar a ton to a company I forget

492

00:21:49,880 --> 00:21:48,030

its name that took it out to a landfill

493

00:21:51,620 --> 00:21:49,890

because the owners thought wow this has

494

00:21:54,070 --> 00:21:51,630

got some good stuff in it we can use

495

00:21:56,060 --> 00:21:54,080

this this is like raw material and

496

00:21:58,580 --> 00:21:56,070

meanwhile it was all being transported

497

00:22:02,600 --> 00:21:58,590

and stuff flew out and they put it in an

498

00:22:04,160 --> 00:22:02,610

unsecured um landfill it wasn't a lined

499

00:22:07,970 --> 00:22:04,170

pit there was no security at all they

500

00:22:11,030 --> 00:22:07,980

just plopped it down there and um cut to

501
00:22:14,720 --> 00:22:11,040
what's happening now it is still buried

502
00:22:16,669 --> 00:22:14,730
there in an adjacent landfill there is

503
00:22:19,340 --> 00:22:16,679
an underground fire that has been

504
00:22:21,770 --> 00:22:19,350
burning now for six years that they

505
00:22:24,950 --> 00:22:21,780
cannot put out because it's made up of

506
00:22:27,770 --> 00:22:24,960
all these these materials and it is

507
00:22:29,870 --> 00:22:27,780
encroaching upon where the radioactive

508
00:22:32,600 --> 00:22:29,880
waste is the radioactive waste all by

509
00:22:34,880 --> 00:22:32,610
itself has totally contaminated a creek

510
00:22:36,980 --> 00:22:34,890
there Coldwater Creek the people living

511
00:22:38,600 --> 00:22:36,990
next to it have an in

512
00:22:41,030 --> 00:22:38,610
ormus cancer cluster this has been

513
00:22:43,010 --> 00:22:41,040

documented not by the officials but by

514

00:22:44,900 --> 00:22:43,020

the citizens they're the people they are

515

00:22:46,640 --> 00:22:44,910

sent around a questionnaire and said do

516

00:22:49,370 --> 00:22:46,650

you know people who have cancer they

517

00:22:51,080 --> 00:22:49,380

found 47 cases of appendix cancer and

518

00:22:52,220 --> 00:22:51,090

there are professional oncologists at

519

00:22:55,970 --> 00:22:52,230

the top of their game who've never even

520

00:22:59,060 --> 00:22:55,980

heard of appendix cancer so this is so

521

00:23:02,210 --> 00:22:59,070

this is Joanne and the homes are

522

00:23:05,000 --> 00:23:02,220

contaminated people don't have any

523

00:23:09,080 --> 00:23:05,010

recourse the illnesses are legion there

524

00:23:09,950 --> 00:23:09,090

and there's no satisfaction and nobody's

525

00:23:12,320 --> 00:23:09,960

stepping up and taking responsibility

526
00:23:14,870 --> 00:23:12,330
and meanwhile the people are suffering

527
00:23:16,669 --> 00:23:14,880
and this is just one example there's a

528
00:23:19,250 --> 00:23:16,679
quote I would like to share with you I

529
00:23:20,930 --> 00:23:19,260
got this from dr. Helen Caldicott I

530
00:23:23,510 --> 00:23:20,940
interviewed her for my show two weeks

531
00:23:24,890 --> 00:23:23,520
ago and I think it's really important

532
00:23:27,260 --> 00:23:24,900
for people to understand that when

533
00:23:29,510 --> 00:23:27,270
you're told that something is at a low

534
00:23:30,980 --> 00:23:29,520
level of radiation it sounds like it no

535
00:23:34,490 --> 00:23:30,990
problem you don't have to worry about it

536
00:23:37,220 --> 00:23:34,500
no I put this together from many things

537
00:23:39,230 --> 00:23:37,230
that dr. Kaul de cada said the cancer

538
00:23:41,600 --> 00:23:39,240

cycle because that's one of the primary

539

00:23:44,210 --> 00:23:41,610

things that exposure to radiation causes

540

00:23:48,650 --> 00:23:44,220

the cancer cycle is initiated by a

541

00:23:52,750 --> 00:23:48,660

single mutation in a single regulatory

542

00:23:56,060 --> 00:23:52,760

gene in a single cell in the human body

543

00:24:00,860 --> 00:23:56,070

this mutation can be caused by a single

544

00:24:06,140 --> 00:24:00,870

exposure to a single atom of radio of a

545

00:24:09,470 --> 00:24:06,150

radioactive element now Adam because the

546

00:24:12,410 --> 00:24:09,480

incubation time for cancer is anything

547

00:24:14,120 --> 00:24:12,420

from 2 to 90 years unless you receive a

548

00:24:16,010 --> 00:24:14,130

catastrophic dose in which case it can

549

00:24:17,390 --> 00:24:16,020

be as short a period of time as those

550

00:24:20,870 --> 00:24:17,400

individuals you mentioned near Chernobyl

551
00:24:24,200 --> 00:24:20,880
but because it takes that long and

552
00:24:26,540 --> 00:24:24,210
because no cancer leaves a thumbprint or

553
00:24:29,299 --> 00:24:26,550
you know a fingerprint saying this is

554
00:24:32,780 --> 00:24:29,309
where the contamination came from you

555
00:24:35,210 --> 00:24:32,790
can't figure out what the contamination

556
00:24:36,919 --> 00:24:35,220
was that caused it so it looks like

557
00:24:38,330 --> 00:24:36,929
cause and effect are separated but

558
00:24:40,190 --> 00:24:38,340
they're not they're absolutely direct

559
00:24:42,770 --> 00:24:40,200
it's just it's over such a long period

560
00:24:46,030 --> 00:24:42,780
of time and it can be caused by such a

561
00:24:49,340 --> 00:24:46,040
small infinitesimal amount of exposure

562
00:24:50,540 --> 00:24:49,350
we can't prove it well isn't that

563
00:24:54,620 --> 00:24:50,550

something now

564

00:24:57,680 --> 00:24:54,630

is there any safe way to store nuclear

565

00:25:00,730 --> 00:24:57,690

waste the first thing is don't make it

566

00:25:05,720 --> 00:25:00,740

yes that's why we need to shut down all

567

00:25:07,490 --> 00:25:05,730

nuclear facilities now there is no safe

568

00:25:09,500 --> 00:25:07,500

storage for waste and that's the hot

569

00:25:11,990 --> 00:25:09,510

issue that's one of the reasons why the

570

00:25:15,020 --> 00:25:12,000

PR spin machine of the nuclear industry

571

00:25:19,250 --> 00:25:15,030

which has millions of dollars to play

572

00:25:21,800 --> 00:25:19,260

with every year has somehow convinced so

573

00:25:23,810 --> 00:25:21,810

many people that nuclear is quote

574

00:25:25,130 --> 00:25:23,820

unquote I gag on the words clean green

575

00:25:26,750 --> 00:25:25,140

and sustainable the only thing

576

00:25:29,900 --> 00:25:26,760

sustainable about it is the danger of

577

00:25:32,090 --> 00:25:29,910

the waste which by the way plutonium has

578

00:25:34,070 --> 00:25:32,100

a half-life meaning the period of time

579

00:25:38,180 --> 00:25:34,080

that it takes for it to become half as

580

00:25:41,450 --> 00:25:38,190

dangerous a half-life of 24,000 years so

581

00:25:44,930 --> 00:25:41,460

and it takes between 10 and 20 half life

582

00:25:47,240 --> 00:25:44,940

cycles for radiation to decay down to

583

00:25:50,360 --> 00:25:47,250

where something is neutral so it can

584

00:25:54,110 --> 00:25:50,370

take anywhere from 240,000 to 480,000

585

00:25:57,170 --> 00:25:54,120

years for plutonium to become neutral

586

00:25:59,210 --> 00:25:57,180

and plutonium weapons-grade plutonium is

587

00:26:02,540 --> 00:25:59,220

a waste product that is produced in

588

00:26:06,920 --> 00:26:02,550

every fuel rod of every nuclear reactor

589

00:26:09,260 --> 00:26:06,930

that has ever been made and that and

590

00:26:12,590 --> 00:26:09,270

that is what they have no place to put

591

00:26:14,480 --> 00:26:12,600

it on they here in the States we built

592

00:26:18,200 --> 00:26:14,490

Yucca Mountain yeah I want to talk about

593

00:26:19,640 --> 00:26:18,210

that yeah it's next to earthquake faults

594

00:26:22,580 --> 00:26:19,650

that have since been discovered since it

595

00:26:25,490 --> 00:26:22,590

was built it is on top of porous soil

596

00:26:29,500 --> 00:26:25,500

above a major aquifer that underlies

597

00:26:32,570 --> 00:26:29,510

eight states how far down is the aquifer

598

00:26:34,550 --> 00:26:32,580

not far enough if the salt it the soil

599

00:26:36,410 --> 00:26:34,560

is poor if there's an earthquake if this

600

00:26:39,650 --> 00:26:36,420

thing you know shake and bake cracks

601
00:26:41,750 --> 00:26:39,660
open radiation pours out and you know

602
00:26:43,700 --> 00:26:41,760
they still haven't found all the fuel

603
00:26:45,140 --> 00:26:43,710
from Fukushima they haven't found the

604
00:26:47,150 --> 00:26:45,150
corium that's what the melted fuel is

605
00:26:48,290 --> 00:26:47,160
called in Chernobyl they at least have a

606
00:26:49,640 --> 00:26:48,300
picture of it it looks like an

607
00:26:51,710 --> 00:26:49,650
elephant's foot and that's what it's

608
00:26:53,690 --> 00:26:51,720
called we don't know what this China

609
00:26:56,780 --> 00:26:53,700
Syndrome is going to look like in Japan

610
00:26:58,580 --> 00:26:56,790
but if there is an earthquake or if

611
00:27:01,550 --> 00:26:58,590
there's just a leak that happens from

612
00:27:04,270 --> 00:27:01,560
fought from failed engineering it goes

613
00:27:07,540 --> 00:27:04,280

down the soil is porous eventually we

614

00:27:09,820 --> 00:27:07,550

rain whatever it can get down there it

615

00:27:11,770 --> 00:27:09,830

can get into the water supply and then

616

00:27:13,840 --> 00:27:11,780

you've got plutonium and other

617

00:27:16,780 --> 00:27:13,850

radionuclides it's not just plutonium

618

00:27:19,480 --> 00:27:16,790

it's a wide range of them that will get

619

00:27:22,540 --> 00:27:19,490

into the water supply underlying eight

620

00:27:25,870 --> 00:27:22,550

states it's it's the high plains aquifer

621

00:27:28,300 --> 00:27:25,880

also known as the Ogallala Aquifer Wow

622

00:27:32,500 --> 00:27:28,310

now I'm getting back to health issues

623

00:27:34,720 --> 00:27:32,510

what other types of health issues can be

624

00:27:38,920 --> 00:27:34,730

caused by either nuclear waste or

625

00:27:42,280 --> 00:27:38,930

contamination exposure any of the

626
00:27:45,400 --> 00:27:42,290
cancers autoimmune diseases heart

627
00:27:47,110 --> 00:27:45,410
disease different radioactive substances

628
00:27:51,190 --> 00:27:47,120
have an affinity for different parts of

629
00:27:54,040 --> 00:27:51,200
the body for example iodine 134 and 137

630
00:27:55,660 --> 00:27:54,050
are short-lived radionuclides but that's

631
00:27:57,940 --> 00:27:55,670
what gets released immediately if there

632
00:28:00,190 --> 00:27:57,950
is an accident that's why people say you

633
00:28:02,500 --> 00:28:00,200
need to take you know potassium iodide

634
00:28:05,950 --> 00:28:02,510
well that will only work in the

635
00:28:07,900 --> 00:28:05,960
immediate aftermath of this exposure but

636
00:28:09,550 --> 00:28:07,910
that has because it's iodine has an

637
00:28:11,230 --> 00:28:09,560
affinity for your thyroid which is why

638
00:28:14,590 --> 00:28:11,240

thyroid cancer is one of the first to

639

00:28:16,930 --> 00:28:14,600

show up strontium-90 has an affinity for

640

00:28:20,830 --> 00:28:16,940

your bones so that's where bone cancer

641

00:28:23,290 --> 00:28:20,840

comes from cesium has an affinity for

642

00:28:25,810 --> 00:28:23,300

muscle and particularly heart muscle so

643

00:28:29,050 --> 00:28:25,820

that can lead to heart disease and heart

644

00:28:32,410 --> 00:28:29,060

attacks and strokes and there are major

645

00:28:33,700 --> 00:28:32,420

implications of radioactive exposure for

646

00:28:36,550 --> 00:28:33,710

anyone who is suffering from an

647

00:28:38,020 --> 00:28:36,560

autoimmune disease and I know that there

648

00:28:40,480 --> 00:28:38,030

are people who are investigating whether

649

00:28:42,610 --> 00:28:40,490

this is in this is implicated also in

650

00:28:44,470 --> 00:28:42,620

autism it's not saying that there aren't

651
00:28:48,220 --> 00:28:44,480
other things that can cause these these

652
00:28:50,590 --> 00:28:48,230
illnesses but radiation always must be

653
00:28:53,470 --> 00:28:50,600
considered if especially if they sudden

654
00:28:55,090 --> 00:28:53,480
or a rare or an unprecedented it's not

655
00:28:58,420 --> 00:28:55,100
anywhere in the families gene pool

656
00:29:00,160 --> 00:28:58,430
illness suddenly shows up so all of

657
00:29:02,320 --> 00:29:00,170
those can happen and that's without even

658
00:29:04,440 --> 00:29:02,330
taking into consideration the difference

659
00:29:06,970 --> 00:29:04,450
between internal and external radiation

660
00:29:09,430 --> 00:29:06,980
most of what you read out there is about

661
00:29:11,050 --> 00:29:09,440
external radiation going oh well you

662
00:29:13,480 --> 00:29:11,060
know it kind of bounces off your skin

663
00:29:17,039 --> 00:29:13,490

that's for plutonium because of the type

664

00:29:19,229 --> 00:29:17,049

of radiation it is however if it lands

665

00:29:21,629 --> 00:29:19,239

your food if it's in your water you take

666

00:29:25,639 --> 00:29:21,639

it inside your body and it's stuck there

667

00:29:29,549 --> 00:29:25,649

then you got an atom putting out

668

00:29:32,639 --> 00:29:29,559

particles have particles up close and

669

00:29:35,060 --> 00:29:32,649

personal with your internal organs which

670

00:29:38,729 --> 00:29:35,070

is why all of the digestive tract

671

00:29:40,950 --> 00:29:38,739

cancers are in such increase all the way

672

00:29:43,109 --> 00:29:40,960

from cancer of the lips and tongues and

673

00:29:46,950 --> 00:29:43,119

throat and esophagus all the way out to

674

00:29:49,379 --> 00:29:46,960

colon cancer malahide up are you

675

00:29:51,499 --> 00:29:49,389

thinking that the increase in cancer

676

00:29:53,700 --> 00:29:51,509

these days has to do with with a

677

00:29:56,970 --> 00:29:53,710

radiation from we talked earlier about

678

00:29:59,849 --> 00:29:56,980

upper-level particles atmosphere from

679

00:30:02,220 --> 00:29:59,859

you know previous bombs all the way back

680

00:30:05,279 --> 00:30:02,230

into the 1940s are you thinking that

681

00:30:07,710 --> 00:30:05,289

this is the reason there seems to be no

682

00:30:11,330 --> 00:30:07,720

I don't even know if there is an

683

00:30:15,779 --> 00:30:11,340

uprising cancer in general there is

684

00:30:17,700 --> 00:30:15,789

actually even my my GP has to talk with

685

00:30:22,409 --> 00:30:17,710

me about it because he knows the work

686

00:30:24,299 --> 00:30:22,419

that I'm doing if you look at cancer a

687

00:30:28,619 --> 00:30:24,309

hundred years ago it was a relatively

688

00:30:33,060 --> 00:30:28,629

rare disease as we have moved into the

689

00:30:34,529 --> 00:30:33,070

mining of uranium it started going up if

690

00:30:36,419 --> 00:30:34,539

you've ever seen pictures of Madame

691

00:30:38,399 --> 00:30:36,429

Curie's hands you can see what radiation

692

00:30:42,239 --> 00:30:38,409

exposure can do the pitchblende she was

693

00:30:44,549 --> 00:30:42,249

working with but as of 1945 and the

694

00:30:47,399 --> 00:30:44,559

first atmospheric explosions and then

695

00:30:50,519 --> 00:30:47,409

following that all of the atmospheric

696

00:30:53,129 --> 00:30:50,529

tests that took place you will find that

697

00:30:56,820 --> 00:30:53,139

if you look at this as a time lag in

698

00:30:58,680 --> 00:30:56,830

other words give it 15 years what are

699

00:31:02,820 --> 00:30:58,690

the cancer rates that's when we start

700

00:31:05,310 --> 00:31:02,830

seeing the rise in cancer now to prove

701
00:31:07,950 --> 00:31:05,320
this there have been epidemiological

702
00:31:10,889 --> 00:31:07,960
studies done usually on small scale and

703
00:31:13,979 --> 00:31:10,899
usually funded by either interested

704
00:31:16,289 --> 00:31:13,989
individuals or a few research places but

705
00:31:18,389 --> 00:31:16,299
not on a wide scale by the government

706
00:31:22,259 --> 00:31:18,399
it's almost like planned deniability

707
00:31:24,509 --> 00:31:22,269
they don't want to know what's out there

708
00:31:26,999 --> 00:31:24,519
and what the danger is because I do

709
00:31:28,739 --> 00:31:27,009
believe that the major function of the

710
00:31:30,370 --> 00:31:28,749
government now as regards nuclear is to

711
00:31:32,050 --> 00:31:30,380
manage our panic

712
00:31:34,960 --> 00:31:32,060
found in that way they are working

713
00:31:39,610 --> 00:31:34,970

directly with the industry to make it

714

00:31:43,120 --> 00:31:39,620

look like it's no big deal um but it is

715

00:31:46,680 --> 00:31:43,130

it's it's an enormous deal and if you

716

00:31:50,080 --> 00:31:46,690

look at the places where there have been

717

00:31:53,340 --> 00:31:50,090

radiation incidents and you correlate

718

00:31:55,240 --> 00:31:53,350

from hospital data and CDC and the

719

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

legitimate sources that are out there

720

00:31:59,620 --> 00:31:57,260

that actually do collect data though not

721

00:32:01,630 --> 00:31:59,630

specifically nuclear but if you sort and

722

00:32:04,120 --> 00:32:01,640

sifted through the right filters you

723

00:32:05,890 --> 00:32:04,130

will find increases in cancer for

724

00:32:07,990 --> 00:32:05,900

example they're fond of saying well

725

00:32:10,570 --> 00:32:08,000

nobody died at Three Mile Island like

726

00:32:12,160 --> 00:32:10,580

that wasn't important although the

727

00:32:15,220 --> 00:32:12,170

people who are most directly affected by

728

00:32:17,020 --> 00:32:15,230

radiation by the exposure including a

729

00:32:18,400 --> 00:32:17,030

woman who owned a kennel and apparently

730

00:32:22,030 --> 00:32:18,410

there were lots of dogs who died and a

731

00:32:23,680 --> 00:32:22,040

lot of mutated puppies um she got paid

732

00:32:25,930 --> 00:32:23,690

off early and had it had to sign a

733

00:32:27,040 --> 00:32:25,940

nondisclosure agreement and that's one

734

00:32:29,020 --> 00:32:27,050

of the ways that they handle it will

735

00:32:30,250 --> 00:32:29,030

give you this money but you have to go

736

00:32:32,680 --> 00:32:30,260

away and never talk about this again

737

00:32:34,660 --> 00:32:32,690

there has been an epidemiological study

738

00:32:36,130 --> 00:32:34,670

in the last three years that was done

739

00:32:38,560 --> 00:32:36,140

that showed that the highest rate of

740

00:32:40,810 --> 00:32:38,570

thyroid cancer in the country is in a

741

00:32:44,410 --> 00:32:40,820

50-mile radius of three mile island oh

742

00:32:46,420 --> 00:32:44,420

oh my god how about that now how can one

743

00:32:48,970 --> 00:32:46,430

I'm not talking about during an incident

744

00:32:51,190 --> 00:32:48,980

but I'm talking in general how can one

745

00:32:54,760 --> 00:32:51,200

protect themselves I know you mentioned

746

00:32:57,220 --> 00:32:54,770

iodine as like an immediate you know

747

00:32:58,840 --> 00:32:57,230

something you take immediately but how

748

00:33:02,490 --> 00:32:58,850

can someone protect themselves in

749

00:33:06,610 --> 00:33:05,110

early on I was asked if I wanted to go

750

00:33:08,920 --> 00:33:06,620

to Japan somebody wanted to fly me to

751

00:33:10,810 --> 00:33:08,930

Japan and I said not unless I get to

752

00:33:16,270 --> 00:33:10,820

wear a lead-lined burka and a

753

00:33:18,790 --> 00:33:16,280

military-grade gas mask there there's no

754

00:33:21,550 --> 00:33:18,800

slam dunk but there are many steps to

755

00:33:23,650 --> 00:33:21,560

take there are foods to eat and foods to

756

00:33:27,070 --> 00:33:23,660

avoid and supplements to take I actually

757

00:33:29,620 --> 00:33:27,080

worked with a an activist who's a former

758

00:33:31,630 --> 00:33:29,630

Greenpeace nuclear activist and is also

759

00:33:33,610 --> 00:33:31,640

a certified nutrition educator Kimberly

760

00:33:36,610 --> 00:33:33,620

Roberson and we put together a program

761

00:33:38,560 --> 00:33:36,620

called radiation awareness protection

762

00:33:41,440 --> 00:33:38,570

talk goes under the name wrapped

763

00:33:43,030 --> 00:33:41,450

awareness calm and there's a free report

764

00:33:44,090 --> 00:33:43,040

on the site if people want to check that

765

00:33:47,060 --> 00:33:44,100

out but

766

00:33:49,880 --> 00:33:47,070

some of the basic things that you can do

767

00:33:52,730 --> 00:33:49,890

first of all yes have potassium iodide

768

00:33:55,310 --> 00:33:52,740

but even without that too I take one

769

00:33:57,350 --> 00:33:55,320

drop of iodine per day and that fills

770

00:34:01,010 --> 00:33:57,360

the thyroid up if the thyroid is filled

771

00:34:03,350 --> 00:34:01,020

with good iodine it's not going to

772

00:34:06,350 --> 00:34:03,360

absorb any radioactive iodine so keep

773

00:34:10,730 --> 00:34:06,360

your keep that up it's always good to

774

00:34:12,830 --> 00:34:10,740

take a high-quality multivitamin because

775

00:34:14,629 --> 00:34:12,840

that also fills some of those slots

776

00:34:18,320 --> 00:34:14,639

where radiation might find a little

777

00:34:21,080 --> 00:34:18,330

notch to get into your body I have

778

00:34:24,080 --> 00:34:21,090

chosen from immediately after Fukushima

779

00:34:27,409 --> 00:34:24,090

to this day I do not eat anything that

780

00:34:30,260 --> 00:34:27,419

has touched the Pacific Ocean that

781

00:34:33,440 --> 00:34:30,270

includes sea salt that includes those

782

00:34:35,000 --> 00:34:33,450

you know yummy little seaweed snacks

783

00:34:37,330 --> 00:34:35,010

that everybody eats instead of potato

784

00:34:39,530 --> 00:34:37,340

chips and feel so righteous about

785

00:34:43,550 --> 00:34:39,540

because there's no testing here's

786

00:34:45,800 --> 00:34:43,560

another thing in Japan they raised the

787

00:34:48,830 --> 00:34:45,810

level of radiation that was acceptable

788

00:34:51,460 --> 00:34:48,840

quote unquote acceptable by government

789

00:34:55,520 --> 00:34:51,470

standards in the food and raised it to

790

00:34:57,950 --> 00:34:55,530

100 barrels of radiation per kilogram of

791

00:35:00,080 --> 00:34:57,960

food that's the level that they have

792

00:35:02,240 --> 00:35:00,090

here in the United States we have the

793

00:35:05,630 --> 00:35:02,250

highest level in the world we will allow

794

00:35:08,810 --> 00:35:05,640

food that is that contains twelve

795

00:35:11,750 --> 00:35:08,820

hundred becquerels per kilogram so food

796

00:35:14,770 --> 00:35:11,760

that is 12 times too contaminated to

797

00:35:17,510 --> 00:35:14,780

sell in Japan is perfectly safe to

798

00:35:19,190 --> 00:35:17,520

import to the United States where we

799

00:35:22,430 --> 00:35:19,200

don't even need to label our country of

800

00:35:25,280 --> 00:35:22,440

origin anymore and mix in with whatever

801
00:35:27,440 --> 00:35:25,290
is being manufactured no labeling no

802
00:35:30,800 --> 00:35:27,450
warning you have no idea if it's there

803
00:35:32,359 --> 00:35:30,810
already or not Wow alright well I want

804
00:35:33,950 --> 00:35:32,369
to get into Fukushima but first I have

805
00:35:38,450 --> 00:35:33,960
this question that was emailed to me

806
00:35:41,240 --> 00:35:38,460
from Bobby and he said that there was

807
00:35:44,450 --> 00:35:41,250
some type of iodine-131 detected in

808
00:35:48,050 --> 00:35:44,460
Europe this past January do you know I'm

809
00:35:50,030 --> 00:35:48,060
sure you know about that yes I nuclear

810
00:35:53,000 --> 00:35:50,040
hot seat has a European correspondent

811
00:35:55,510 --> 00:35:53,010
based in Ireland Sean McGee who is a

812
00:35:58,690 --> 00:35:55,520
brilliant brilliant researcher

813
00:36:01,060 --> 00:35:58,700

he also yes nuclear news net is his one

814

00:36:03,460 --> 00:36:01,070

of his sights and he did the research

815

00:36:04,720 --> 00:36:03,470

into it and did a report for us and by

816

00:36:08,470 --> 00:36:04,730

going through all of the different

817

00:36:11,110 --> 00:36:08,480

reporting organizations in Norway and

818

00:36:13,750 --> 00:36:11,120

and Bologna which takes care of Russia

819

00:36:17,170 --> 00:36:13,760

and those territories and all over it

820

00:36:21,340 --> 00:36:17,180

appears that it was a leak from a

821

00:36:24,100 --> 00:36:21,350

facility in Hungary that does medical

822

00:36:27,040 --> 00:36:24,110

radiation researcher and creates medical

823

00:36:29,110 --> 00:36:27,050

isotopes so one of the reasons it was

824

00:36:32,440 --> 00:36:29,120

kept hush-hush is I believe this is the

825

00:36:36,310 --> 00:36:32,450

only facility in Europe that actually

826

00:36:38,320 --> 00:36:36,320

does this kind of medical work and they

827

00:36:41,410 --> 00:36:38,330

wanted to protect that line of of

828

00:36:44,800 --> 00:36:41,420

medicine so that is the best knowledge I

829

00:36:46,840 --> 00:36:44,810

have it was not a blast because there

830

00:36:48,070 --> 00:36:46,850

was no kind of seismic activity that was

831

00:36:50,560 --> 00:36:48,080

registered there's no way that they can

832

00:36:54,340 --> 00:36:50,570

that can be hidden there's absolutely no

833

00:36:57,370 --> 00:36:54,350

way and the people who monitor the

834

00:37:00,880 --> 00:36:57,380

reactors that are in Europe and

835

00:37:04,600 --> 00:37:00,890

Scandinavia and in Russia didn't report

836

00:37:06,970 --> 00:37:04,610

any spike local to them so this is the

837

00:37:09,370 --> 00:37:06,980

best that we know at this time and who

838

00:37:11,950 --> 00:37:09,380

knows more may be revealed right right

839

00:37:14,650 --> 00:37:11,960

we have a listener tonight in hawaii i'm

840

00:37:17,830 --> 00:37:14,660

going to say hi to hawaii and she's very

841

00:37:20,710 --> 00:37:17,840

concerned about fukushima and is

842

00:37:24,130 --> 00:37:20,720

listening to the show tonight and so I

843

00:37:27,970 --> 00:37:24,140

do want to get into that topic I can

844

00:37:30,220 --> 00:37:27,980

remember when that happened I just was

845

00:37:32,560 --> 00:37:30,230

good I just was beside myself thinking

846

00:37:35,170 --> 00:37:32,570

oh my god you know how bad is this going

847

00:37:37,240 --> 00:37:35,180

to be now you know recently it was in

848

00:37:39,550 --> 00:37:37,250

the news and i realized there after

849

00:37:42,070 --> 00:37:39,560

listening to your show the reason it was

850

00:37:45,310 --> 00:37:42,080

in the news is because they were able to

851

00:37:47,470 --> 00:37:45,320

get a robot closer to the core or the

852

00:37:49,900 --> 00:37:47,480

you know what the issue was so the

853

00:37:52,710 --> 00:37:49,910

course of radiation level was higher but

854

00:37:55,360 --> 00:37:52,720

other than that little spike of news

855

00:37:57,430 --> 00:37:55,370

people I just think kind of assumed that

856

00:38:02,590 --> 00:37:57,440

Fukushima is a done deal and gone and

857

00:38:04,590 --> 00:38:02,600

all that and how many years are we going

858

00:38:07,480 --> 00:38:04,600

to have to worry about this can it ever

859

00:38:08,460 --> 00:38:07,490

go away beacon decommissioned or

860

00:38:10,410 --> 00:38:08,470

anything and

861

00:38:13,589 --> 00:38:10,420

what happens if there's another major

862

00:38:16,650 --> 00:38:13,599

earthquake tsunami again what's going to

863

00:38:19,770 --> 00:38:16,660

happen well you you just took the entire

864

00:38:22,589 --> 00:38:19,780

scenario because in terms of it ever

865

00:38:27,030 --> 00:38:22,599

being cleaned up no this is a permanent

866

00:38:30,000 --> 00:38:27,040

wound to the surface of planet Earth and

867

00:38:32,250 --> 00:38:30,010

unless there's some magnificent

868

00:38:34,950 --> 00:38:32,260

technological breakthrough somewhere in

869

00:38:37,410 --> 00:38:34,960

the future the research for which is not

870

00:38:39,330 --> 00:38:37,420

being funded is not being encouraged so

871

00:38:41,640 --> 00:38:39,340

I do not believe any kind of research is

872

00:38:43,349 --> 00:38:41,650

going on in it at this time but unless

873

00:38:46,260 --> 00:38:43,359

there's something that can neutralize

874

00:38:48,810 --> 00:38:46,270

radiation and make it safe we're stuck

875

00:38:53,849 --> 00:38:48,820

with this thing forever there is no

876

00:38:56,190 --> 00:38:53,859

control every day 300 to 400 let me get

877

00:38:59,670 --> 00:38:56,200

again I want to be absolutely correct

878

00:39:02,099 --> 00:38:59,680

about this every day 300 to 400 tons of

879

00:39:04,710 --> 00:39:02,109

ocean water is poured directly on the

880

00:39:06,240 --> 00:39:04,720

reactors to keep them cool in the

881

00:39:08,040 --> 00:39:06,250

process of which the water becomes

882

00:39:11,400 --> 00:39:08,050

contaminated with various isotopes

883

00:39:14,250 --> 00:39:11,410

including cesium 134 cesium 137

884

00:39:18,300 --> 00:39:14,260

strontium-90 tritium plutonium americium

885

00:39:21,690 --> 00:39:18,310

and as many as 100 more isotopes that

886

00:39:25,320 --> 00:39:21,700

water is then stored in these big tanks

887

00:39:27,990 --> 00:39:25,330

on TEPCO's land to around the plant they

888

00:39:29,520 --> 00:39:28,000

got over 1200 of them now temporary

889

00:39:31,320 --> 00:39:29,530

quote-unquote tanks that are only meant

890

00:39:32,910 --> 00:39:31,330

to last five or six years and they're

891

00:39:34,920 --> 00:39:32,920

starting to get to the end of their use

892

00:39:37,740 --> 00:39:34,930

by date and they leak and there are

893

00:39:39,599 --> 00:39:37,750

problems with it and TEPCO is taking out

894

00:39:41,370 --> 00:39:39,609

whatever radiation they can and they're

895

00:39:43,290 --> 00:39:41,380

trying to say oh it's safe to dump back

896

00:39:45,540 --> 00:39:43,300

into the ocean but there is no way to

897

00:39:48,300 --> 00:39:45,550

remove tritium they're not letting any

898

00:39:50,190 --> 00:39:48,310

outside people come in to do the testing

899

00:39:53,810 --> 00:39:50,200

of what's going on with the water and

900

00:39:55,640 --> 00:39:53,820

it's not safe you can't decommission

901
00:39:59,430 --> 00:39:55,650
Fukushima because you can only

902
00:40:04,320 --> 00:39:59,440
decommission an intact nuclear reactor

903
00:40:06,720 --> 00:40:04,330
facility this is wreckage this is things

904
00:40:08,820 --> 00:40:06,730
on top of things that have fallen that

905
00:40:12,570 --> 00:40:08,830
are broken that are twisted that our

906
00:40:14,910 --> 00:40:12,580
contorted and so there's no way to get

907
00:40:17,010 --> 00:40:14,920
in there and find out exactly what's

908
00:40:18,930 --> 00:40:17,020
there how far it's gotten and how bad it

909
00:40:20,640 --> 00:40:18,940
is so no they haven't found the

910
00:40:22,260 --> 00:40:20,650
equivalent of the elephant's foot from

911
00:40:24,390 --> 00:40:22,270
Chernobyl which is that's where

912
00:40:27,690 --> 00:40:24,400
that's where it ended we don't know

913
00:40:29,640 --> 00:40:27,700

where it ends here in addition and I

914

00:40:31,770 --> 00:40:29,650

have an anniversary program i'm posting

915

00:40:33,990 --> 00:40:31,780

tomorrow which includes four interviews

916

00:40:38,340 --> 00:40:34,000

from japan and we talked about these

917

00:40:40,980 --> 00:40:38,350

very issues the hills above fukushima

918

00:40:43,530 --> 00:40:40,990

are contaminated in a way that cannot be

919

00:40:45,960 --> 00:40:43,540

cleared up because it's trees its leaves

920

00:40:48,510 --> 00:40:45,970

it's Duff it's on the mountain and no

921

00:40:51,870 --> 00:40:48,520

matter what gets done below to try and

922

00:40:54,720 --> 00:40:51,880

clean up the areas when the wind comes

923

00:40:56,850 --> 00:40:54,730

when the rain comes and pours down the

924

00:41:01,530 --> 00:40:56,860

mountain the radiation from there is

925

00:41:03,120 --> 00:41:01,540

redistributed also that water had coming

926

00:41:06,300 --> 00:41:03,130

off the mountain has always been a

927

00:41:08,310 --> 00:41:06,310

problem for Fukushima when the reactors

928

00:41:10,950 --> 00:41:08,320

were built initially the site was up on

929

00:41:14,130 --> 00:41:10,960

a bluff overlooking the ocean if it had

930

00:41:15,690 --> 00:41:14,140

been built on that Bluff we wouldn't be

931

00:41:17,520 --> 00:41:15,700

dealing with the problem now because it

932

00:41:20,070 --> 00:41:17,530

would have been well out of range of the

933

00:41:22,170 --> 00:41:20,080

worst of the tsunami but some bean

934

00:41:25,440 --> 00:41:22,180

counter figured out oh well it's going

935

00:41:27,360 --> 00:41:25,450

to be cheaper if we dig the hill and we

936

00:41:29,610 --> 00:41:27,370

take the bluff down to sea level and

937

00:41:33,600 --> 00:41:29,620

then we just build build at sea level

938

00:41:36,750 --> 00:41:33,610

would be much cheaper by doing that for

939

00:41:41,370 --> 00:41:36,760

years they had a problem with again 300

940

00:41:43,380 --> 00:41:41,380

to 400 tons of water coming down off the

941

00:41:46,530 --> 00:41:43,390

mountain and flowing through the

942

00:41:48,810 --> 00:41:46,540

basement of the plant now while it was

943

00:41:50,940 --> 00:41:48,820

an intact functioning nuclear facility

944

00:41:53,070 --> 00:41:50,950

that water just kind of you know went

945

00:41:55,200 --> 00:41:53,080

out into the bay and it was fine but now

946

00:41:57,810 --> 00:41:55,210

it's contaminated and there's no control

947

00:42:00,060 --> 00:41:57,820

over it they tried building that stupid

948

00:42:01,590 --> 00:42:00,070

ice wall which was just a graft project

949

00:42:05,040 --> 00:42:01,600

to get more money to their friends in

950

00:42:07,230 --> 00:42:05,050

government that didn't work they have no

951
00:42:09,060 --> 00:42:07,240
way of stopping that water from coming

952
00:42:10,770 --> 00:42:09,070
off the mountain with its contamination

953
00:42:12,660 --> 00:42:10,780
already going through the basement which

954
00:42:14,100 --> 00:42:12,670
is horrific ly contaminated and from

955
00:42:18,210 --> 00:42:14,110
there going out into the Pacific Ocean

956
00:42:20,250 --> 00:42:18,220
where it doesn't dilute dilute means

957
00:42:24,630 --> 00:42:20,260
something gets weaker to the point where

958
00:42:27,720 --> 00:42:24,640
it becomes ineffective it can't do its

959
00:42:30,510 --> 00:42:27,730
damage what it does is it disperses it

960
00:42:33,030 --> 00:42:30,520
and distributes it remember all it takes

961
00:42:35,670 --> 00:42:33,040
is a single atom of exposure hitting

962
00:42:36,210 --> 00:42:35,680
your DNA the wrong way and you've got a

963
00:42:38,130 --> 00:42:36,220

problem

964

00:42:39,990 --> 00:42:38,140

and if you have any offspring after that

965

00:42:42,900 --> 00:42:40,000

they will have problems as well because

966

00:42:45,570 --> 00:42:42,910

damage will have been done Wow yeah I

967

00:42:47,220 --> 00:42:45,580

remember the ice wall thing and one of

968

00:42:48,720 --> 00:42:47,230

the things and I thought that was kind

969

00:42:50,760 --> 00:42:48,730

of how would they ever maintain it I

970

00:42:54,180 --> 00:42:50,770

mean that's you know year-round and all

971

00:42:56,580 --> 00:42:54,190

that I mean and then a couple things I

972

00:42:59,070 --> 00:42:56,590

thought of well I know this sounds kind

973

00:43:04,170 --> 00:42:59,080

of crazy but what about something like a

974

00:43:05,820 --> 00:43:04,180

moat or a canal dug around the plant to

975

00:43:09,480 --> 00:43:05,830

keep that water from actually flowing

976

00:43:12,060 --> 00:43:09,490

under it has anyone ever talked about

977

00:43:16,980 --> 00:43:12,070

some type of canal or remote to stop the

978

00:43:19,920 --> 00:43:16,990

flow of water you know I'm sure that

979

00:43:22,349 --> 00:43:19,930

there are some very bright engineers in

980

00:43:25,080 --> 00:43:22,359

the world who have thought of anything

981

00:43:30,470 --> 00:43:25,090

that you're I could think of yeah and

982

00:43:33,210 --> 00:43:30,480

either it proved to be not feasible or

983

00:43:35,070 --> 00:43:33,220

nobody was interested in hearing it and

984

00:43:38,040 --> 00:43:35,080

perhaps the time has passed when it

985

00:43:39,570 --> 00:43:38,050

would be even possible to try it one of

986

00:43:43,380 --> 00:43:39,580

the reasons that we can't build a

987

00:43:45,839 --> 00:43:43,390

sarcophagus around Fukushima the way was

988

00:43:48,810 --> 00:43:45,849

done is Chernobyl is that Chernobyl is

989

00:43:51,510 --> 00:43:48,820

in the middle of the country it's not on

990

00:43:53,160 --> 00:43:51,520

a coastline nuclear reactors need water

991

00:43:55,859 --> 00:43:53,170

in order to cool them so they're always

992

00:43:58,650 --> 00:43:55,869

built near what is perceived to be an

993

00:44:00,270 --> 00:43:58,660

unending water supply in Chernobyl it

994

00:44:03,540 --> 00:44:00,280

was rivers it's actually built in a

995

00:44:06,900 --> 00:44:03,550

marshland so they could put pylons down

996

00:44:09,000 --> 00:44:06,910

and support the structure enough so that

997

00:44:10,560 --> 00:44:09,010

it would take the weight not only of the

998

00:44:12,329 --> 00:44:10,570

structure of Chernobyl but the

999

00:44:14,670 --> 00:44:12,339

sarcophagus that went over and then they

1000

00:44:16,050 --> 00:44:14,680

had to really do a job and there's a

1001
00:44:18,570 --> 00:44:16,060
question as to whether it's going to be

1002
00:44:20,550 --> 00:44:18,580
strong enough but it's a done deal with

1003
00:44:23,820 --> 00:44:20,560
the new sarcophagus that just got

1004
00:44:25,710 --> 00:44:23,830
built-in they had to sink pylons really

1005
00:44:28,620 --> 00:44:25,720
deeply to have a structure that could

1006
00:44:31,589 --> 00:44:28,630
sustain all of that weight around it but

1007
00:44:35,099 --> 00:44:31,599
they could do it because it was in the

1008
00:44:37,140 --> 00:44:35,109
middle of land Fukushima's on the coast

1009
00:44:39,450 --> 00:44:37,150
it's not possible for them to do the

1010
00:44:41,640 --> 00:44:39,460
same kind of engineering there so a

1011
00:44:43,320 --> 00:44:41,650
sarcophagus is not going to work you

1012
00:44:45,950 --> 00:44:43,330
can't decommission it because it's a

1013
00:44:48,359 --> 00:44:45,960

mess you can't decommission a mess and

1014

00:44:49,730 --> 00:44:48,369

Japan has been doing everything in its

1015

00:44:52,550 --> 00:44:49,740

power to

1016

00:44:54,950 --> 00:44:52,560

shut out the rest of the world and it's

1017

00:44:57,170 --> 00:44:54,960

engineering expertise they wanted a save

1018

00:44:58,940 --> 00:44:57,180

face I believe this has been said by one

1019

00:45:02,090 --> 00:44:58,950

of my interviewees as being part of the

1020

00:45:04,010 --> 00:45:02,100

national profile that they want to save

1021

00:45:06,560 --> 00:45:04,020

face they want to do it themselves and

1022

00:45:08,510 --> 00:45:06,570

so they've been doing it themselves and

1023

00:45:09,650 --> 00:45:08,520

bocce and completely and now they're

1024

00:45:12,859 --> 00:45:09,660

doing everything in their power to

1025

00:45:16,070 --> 00:45:12,869

pretend that everything is okay because

1026

00:45:19,060 --> 00:45:16,080

in 2020 the Olympics if they still

1027

00:45:21,740 --> 00:45:19,070

happen are going to take place in Tokyo

1028

00:45:24,140 --> 00:45:21,750

including housing and training

1029

00:45:26,030 --> 00:45:24,150

facilities that are being built in an

1030

00:45:28,700 --> 00:45:26,040

area that used to be a soccer field and

1031

00:45:31,730 --> 00:45:28,710

a soccer training facility only twelve

1032

00:45:36,620 --> 00:45:31,740

and a half miles away from the Fukushima

1033

00:45:38,990 --> 00:45:36,630

Daiichi Rick interesting and what have

1034

00:45:42,320 --> 00:45:39,000

they checked the radiation levels in

1035

00:45:44,780 --> 00:45:42,330

that area oh yes as a matter of fact

1036

00:45:47,270 --> 00:45:44,790

this is also i've been doing a series of

1037

00:45:49,940 --> 00:45:47,280

programs on fukushima coming up to the

1038

00:45:51,680 --> 00:45:49,950

anniversary and tomorrow is one that

1039

00:45:54,830 --> 00:45:51,690

it's the fifth year for voices from

1040

00:45:57,230 --> 00:45:54,840

japan interviews with people and they

1041

00:45:58,790 --> 00:45:57,240

actually have road signs you know the

1042

00:46:00,470 --> 00:45:58,800

electronic road signs where the numbers

1043

00:46:02,870 --> 00:46:00,480

can change like you know there's an

1044

00:46:05,750 --> 00:46:02,880

accident ahead or use the next exit and

1045

00:46:08,750 --> 00:46:05,760

stuff like that they have road signs in

1046

00:46:11,480 --> 00:46:08,760

place electronic that will tell you what

1047

00:46:13,460 --> 00:46:11,490

the radiation level is as you're driving

1048

00:46:16,370 --> 00:46:13,470

on the highway that goes through

1049

00:46:19,430 --> 00:46:16,380

Fukushima Prefecture so you'll know what

1050

00:46:23,210 --> 00:46:19,440

you're being exposed to there but there

1051
00:46:25,849 --> 00:46:23,220
are all kinds of ways again um Beverly

1052
00:46:29,270 --> 00:46:25,859
Finley connect Oh who has been who

1053
00:46:31,640 --> 00:46:29,280
produces with me the voices from Japan

1054
00:46:34,010 --> 00:46:31,650
series her husband is Japanese she lived

1055
00:46:39,859 --> 00:46:34,020
there for many years and she lives here

1056
00:46:42,830 --> 00:46:39,869
now um she talks about the fact that um

1057
00:46:44,960 --> 00:46:42,840
the that with the radiation level she

1058
00:46:46,250 --> 00:46:44,970
was there with her husband and they had

1059
00:46:47,570 --> 00:46:46,260
a radiation monitor with them and they

1060
00:46:50,120 --> 00:46:47,580
were in Fukushima they were interviewing

1061
00:46:52,609 --> 00:46:50,130
people and checking things out that as

1062
00:46:54,590 --> 00:46:52,619
long as they stay this was last year as

1063
00:46:57,170 --> 00:46:54,600

long as they stayed on the main

1064

00:46:59,660 --> 00:46:57,180

thoroughfares the main roads they were

1065

00:47:01,310 --> 00:46:59,670

fine but as soon as they walked into a

1066

00:47:03,150 --> 00:47:01,320

park with the radiation monitor it

1067

00:47:05,490 --> 00:47:03,160

started going nuts

1068

00:47:08,700 --> 00:47:05,500

now I know that I was watching something

1069

00:47:10,410 --> 00:47:08,710

on the area there about all the animals

1070

00:47:12,330 --> 00:47:10,420

you know the wildlife that's basically

1071

00:47:13,860 --> 00:47:12,340

taken over the the town's there and

1072

00:47:15,870 --> 00:47:13,870

things like that but there are a lot of

1073

00:47:18,450 --> 00:47:15,880

hot spots that actually have to do with

1074

00:47:19,980 --> 00:47:18,460

water settling you know water coming

1075

00:47:23,430 --> 00:47:19,990

down off the mountain and settling in

1076
00:47:25,440 --> 00:47:23,440
these low-lying areas and so I imagine

1077
00:47:27,900 --> 00:47:25,450
if you take a walk anywhere you're going

1078
00:47:31,110 --> 00:47:27,910
to be walking you know past or through

1079
00:47:32,310 --> 00:47:31,120
some of these hot spots if you walk the

1080
00:47:34,560 --> 00:47:32,320
trails and I understand it's really

1081
00:47:37,230 --> 00:47:34,570
beautiful in that area too and you know

1082
00:47:38,790 --> 00:47:37,240
how are people going to be regulated out

1083
00:47:41,430 --> 00:47:38,800
of those areas where there could still

1084
00:47:44,010 --> 00:47:41,440
be hot spots and here's the thing

1085
00:47:46,800 --> 00:47:44,020
they're not being regulated out of them

1086
00:47:49,530 --> 00:47:46,810
it's just the opposite the country is

1087
00:47:51,180 --> 00:47:49,540
actually taking away at the end of March

1088
00:47:54,600 --> 00:47:51,190

the end of this month they are taking

1089

00:47:57,390 --> 00:47:54,610

away the stipends for more than half the

1090

00:47:59,820 --> 00:47:57,400

people who have been evacuees from the

1091

00:48:02,310 --> 00:47:59,830

area they're saying all this area is at

1092

00:48:04,830 --> 00:48:02,320

twenty millisieverts it's okay it's okay

1093

00:48:07,620 --> 00:48:04,840

for you to live there now twenty

1094

00:48:10,020 --> 00:48:07,630

millisieverts used to be the annual dose

1095

00:48:12,060 --> 00:48:10,030

of radiation that was allowed for

1096

00:48:14,550 --> 00:48:12,070

someone working within the nuclear

1097

00:48:17,790 --> 00:48:14,560

industry it was much higher than what

1098

00:48:20,700 --> 00:48:17,800

was allowed for a regular person and now

1099

00:48:22,950 --> 00:48:20,710

they're saying well sorry at the end of

1100

00:48:25,260 --> 00:48:22,960

March you're either going to have to

1101
00:48:27,540 --> 00:48:25,270
move back to your homes in Fukushima

1102
00:48:29,510 --> 00:48:27,550
which especially mothers and children

1103
00:48:32,460 --> 00:48:29,520
don't want to do they're far more

1104
00:48:34,590 --> 00:48:32,470
vulnerable to radiation than adult men

1105
00:48:36,210 --> 00:48:34,600
but everyone is at risk because of it

1106
00:48:37,950 --> 00:48:36,220
you're either going to have to move back

1107
00:48:39,840 --> 00:48:37,960
there or figure out something on your

1108
00:48:41,580 --> 00:48:39,850
own but you know why our hands we're

1109
00:48:43,290 --> 00:48:41,590
done with it we don't you know we're not

1110
00:48:45,900 --> 00:48:43,300
concerned anymore because they are

1111
00:48:49,680 --> 00:48:45,910
trying desperately to create the

1112
00:48:51,300 --> 00:48:49,690
illusion of normalcy so that the 2020

1113
00:48:53,010 --> 00:48:51,310

Olympics can come and all the tours can

1114

00:48:55,200 --> 00:48:53,020

come and all the athletes can come and

1115

00:48:58,610 --> 00:48:55,210

then watch their cancer rates go up in

1116

00:49:01,230 --> 00:48:58,620

three to five years for thyroid or or

1117

00:49:04,080 --> 00:49:01,240

leukemia thyroid cancer or leukemia and

1118

00:49:05,280 --> 00:49:04,090

hard tumors after that because they're

1119

00:49:06,630 --> 00:49:05,290

going to be breathing deeply there's

1120

00:49:09,120 --> 00:49:06,640

going to be rain there's going to be

1121

00:49:12,260 --> 00:49:09,130

dust coming up there's the ambient

1122

00:49:16,890 --> 00:49:12,270

radiation there have been samples of

1123

00:49:18,240 --> 00:49:16,900

dust and dirt along sidewalks from Tokyo

1124

00:49:20,340 --> 00:49:18,250

that have been taken up just at random

1125

00:49:21,990 --> 00:49:20,350

not a particular hot spot area and

1126
00:49:23,760 --> 00:49:22,000
brought back to the United States this

1127
00:49:26,730 --> 00:49:23,770
was by arnie gunderson at fairwinds

1128
00:49:29,040 --> 00:49:26,740
energy education and after testing it

1129
00:49:30,750 --> 00:49:29,050
was shown that those samples were so

1130
00:49:32,610 --> 00:49:30,760
radioactive that in the states they

1131
00:49:35,550 --> 00:49:32,620
would have to be disposed of as

1132
00:49:39,630 --> 00:49:35,560
high-level nuclear waste this is just

1133
00:49:41,760 --> 00:49:39,640
dust along the streets in Tokyo now do i

1134
00:49:44,850 --> 00:49:41,770
do I hear we're having a little bit of a

1135
00:49:46,530 --> 00:49:44,860
skype issue it and I might have to hang

1136
00:49:50,370 --> 00:49:46,540
up again just for a second is that your

1137
00:49:53,250 --> 00:49:50,380
dog that I hear barking there is a dog

1138
00:49:55,800 --> 00:49:53,260

out my front door I mean California

1139

00:49:57,510 --> 00:49:55,810

sorry too oh yeah i can put i don't

1140

00:50:00,450 --> 00:49:57,520

close the door if you like okay all

1141

00:50:02,730 --> 00:50:00,460

right throw out a milk-bone and no I'm

1142

00:50:04,440 --> 00:50:02,740

gonna cross the street yeah and I'm

1143

00:50:08,460 --> 00:50:04,450

going to hang up and I'll call you right

1144

00:50:10,500 --> 00:50:08,470

back got it okay all right hang in

1145

00:50:12,480 --> 00:50:10,510

everyone I'm gonna be calling her right

1146

00:50:15,780 --> 00:50:12,490

back she's going to be closing the door

1147

00:50:19,140 --> 00:50:15,790

and coming right back thank you for

1148

00:50:21,810 --> 00:50:19,150

paying aim for the show and here we go

1149

00:50:23,910 --> 00:50:21,820

we'll see if that's any better and I

1150

00:50:27,060 --> 00:50:23,920

told the dog to be quiet mine's fine

1151
00:50:31,290 --> 00:50:27,070
that was across the street okay yeah all

1152
00:50:35,610 --> 00:50:31,300
right well thank you for that so what is

1153
00:50:37,440 --> 00:50:35,620
your best guess to what the solution is

1154
00:50:41,040 --> 00:50:37,450
or are we just going to say there's

1155
00:50:46,230 --> 00:50:41,050
absolutely no solution to to what can be

1156
00:50:50,130 --> 00:50:46,240
done with Fukushima I think that what is

1157
00:50:53,280 --> 00:50:50,140
needed is a total uprising of saying

1158
00:50:55,950 --> 00:50:53,290
people everywhere who understand the

1159
00:50:58,560 --> 00:50:55,960
power of renewables who understand that

1160
00:51:03,030 --> 00:50:58,570
we can be easily powered by renewables

1161
00:51:05,550 --> 00:51:03,040
that it can be done we need top-down

1162
00:51:08,550 --> 00:51:05,560
support I mean Germany which is not

1163
00:51:11,130 --> 00:51:08,560

exactly a sunny country has actually

1164

00:51:13,950 --> 00:51:11,140

gotten to a day where almost the entire

1165

00:51:18,060 --> 00:51:13,960

country was fuel was was given its power

1166

00:51:19,620 --> 00:51:18,070

by renewables if Germany can do it we

1167

00:51:21,420 --> 00:51:19,630

can definitely do it here there's no

1168

00:51:23,310 --> 00:51:21,430

will for but we need to first of all

1169

00:51:25,920 --> 00:51:23,320

shut down every nuclear reactor because

1170

00:51:28,470 --> 00:51:25,930

every nuclear reactor leaks tritium into

1171

00:51:29,940 --> 00:51:28,480

the groundwater it leaks when it during

1172

00:51:32,430 --> 00:51:29,950

refueling it

1173

00:51:34,740 --> 00:51:32,440

leaks radiation into the air and the

1174

00:51:37,050 --> 00:51:34,750

environment and they hide that by saying

1175

00:51:38,790 --> 00:51:37,060

oh well we averaged out the releases

1176

00:51:40,170 --> 00:51:38,800

over the course of a year which of

1177

00:51:42,089 --> 00:51:40,180

course shows that as being infinitesimal

1178

00:51:47,160 --> 00:51:42,099

when the bulk of it is happening within

1179

00:51:49,530 --> 00:51:47,170

a 12 to 24 to 36-hour period so we need

1180

00:51:53,609 --> 00:51:49,540

to shut them down and install renewables

1181

00:51:56,819 --> 00:51:53,619

at the same time secondly there has to

1182

00:52:00,030 --> 00:51:56,829

be funding there has to be some movement

1183

00:52:02,099 --> 00:52:00,040

to start the research get the

1184

00:52:06,089 --> 00:52:02,109

billionaires together make it a billion

1185

00:52:09,870 --> 00:52:06,099

dollar prize for whatever garage based

1186

00:52:11,849 --> 00:52:09,880

MIT student or group thereof can come up

1187

00:52:14,910 --> 00:52:11,859

with a way to genuinely neutralize

1188

00:52:17,010 --> 00:52:14,920

nuclear radiation without creating more

1189

00:52:19,650 --> 00:52:17,020

that's been the problem in the past and

1190

00:52:21,569 --> 00:52:19,660

there have been rumored solutions to

1191

00:52:24,329 --> 00:52:21,579

this I've tracked them down nothing

1192

00:52:26,790 --> 00:52:24,339

scans out so far we need the research to

1193

00:52:29,700 --> 00:52:26,800

be done the third thing is that there

1194

00:52:31,980 --> 00:52:29,710

has to be responsible storage for what

1195

00:52:33,000 --> 00:52:31,990

we've already created and that is not

1196

00:52:35,400 --> 00:52:33,010

the way the Nuclear Regulatory

1197

00:52:38,040 --> 00:52:35,410

Commission is handling it in the United

1198

00:52:40,530 --> 00:52:38,050

States for example at San Onofre which

1199

00:52:44,609 --> 00:52:40,540

is only 70 miles away from where I live

1200

00:52:47,069 --> 00:52:44,619

they are planning to take the fuel rods

1201
00:52:49,950 --> 00:52:47,079
these spent fuel rods and put them into

1202
00:52:52,410 --> 00:52:49,960
dry cask which sounds fine except the

1203
00:52:56,010 --> 00:52:52,420
NRC has approved and the local utility

1204
00:52:58,200 --> 00:52:56,020
is buy the cheapest tin can we call them

1205
00:53:00,599 --> 00:52:58,210
the thin canisters because they are only

1206
00:53:03,089 --> 00:53:00,609
five eighths of an inch thick stainless

1207
00:53:04,950 --> 00:53:03,099
steel there's no way to fix them there's

1208
00:53:06,450 --> 00:53:04,960
no way to monitor if something goes

1209
00:53:08,069 --> 00:53:06,460
wrong inside we won't know what's going

1210
00:53:11,270 --> 00:53:08,079
wrong until something happens they're

1211
00:53:14,309 --> 00:53:11,280
being stored next to the ocean the

1212
00:53:17,190 --> 00:53:14,319
utility is not reinforcing the

1213
00:53:19,530 --> 00:53:17,200

inadequate tsunami wall that happens to

1214

00:53:22,470 --> 00:53:19,540

be there and if there's a problem with

1215

00:53:24,900 --> 00:53:22,480

you know global warming oceans rising if

1216

00:53:26,640 --> 00:53:24,910

something happens there then we have

1217

00:53:29,430 --> 00:53:26,650

really got a problem in Southern

1218

00:53:31,140 --> 00:53:29,440

California and that's the breadbasket to

1219

00:53:33,089 --> 00:53:31,150

so much of the world this is where the

1220

00:53:36,599 --> 00:53:33,099

world's fruits come you know fruits come

1221

00:53:39,809 --> 00:53:36,609

from Los Angeles all of it is gone so we

1222

00:53:43,020 --> 00:53:39,819

need to have responsible storage and

1223

00:53:43,920 --> 00:53:43,030

that has to be on the energy industries

1224

00:53:46,470 --> 00:53:43,930

done

1225

00:53:49,620 --> 00:53:46,480

right now they're playing the game of

1226

00:53:51,120 --> 00:53:49,630

the producers where money was raised for

1227

00:53:53,370 --> 00:53:51,130

a Broadway show and as long as it was a

1228

00:53:54,840 --> 00:53:53,380

flop they made more money San Onofre was

1229

00:53:56,300 --> 00:53:54,850

a big flop but Southern California

1230

00:53:58,890 --> 00:53:56,310

Edison is having their best year ever

1231

00:54:01,050 --> 00:53:58,900

because that's the way they rigged it

1232

00:54:03,150 --> 00:54:01,060

and the rate payers are paying for as

1233

00:54:05,280 --> 00:54:03,160

opposed to the stockholders we've got to

1234

00:54:08,010 --> 00:54:05,290

put this on the shoulders of those who

1235

00:54:09,990 --> 00:54:08,020

have created it gotta stop making more

1236

00:54:11,220 --> 00:54:10,000

we cannot assume that Australia is going

1237

00:54:13,620 --> 00:54:11,230

to be the dumping ground for the world

1238

00:54:15,930 --> 00:54:13,630

because they don't want it I don't care

1239

00:54:19,080 --> 00:54:15,940

how much shirt so I mean there's a lot

1240

00:54:21,450 --> 00:54:19,090

that can be done and also people need to

1241

00:54:24,090 --> 00:54:21,460

keep themselves informed as I said if

1242

00:54:26,250 --> 00:54:24,100

they want to learn about Fukushima the

1243

00:54:28,890 --> 00:54:26,260

tomorrow will be my third program in a

1244

00:54:30,600 --> 00:54:28,900

row including dr. caldecott last week

1245

00:54:33,240 --> 00:54:30,610

that was two weeks ago last week it was

1246

00:54:35,430 --> 00:54:33,250

a woman who did animal rescue in the

1247

00:54:37,260 --> 00:54:35,440

evacuation zone telling just

1248

00:54:40,710 --> 00:54:37,270

heartbreaking stories from there and

1249

00:54:42,750 --> 00:54:40,720

tomorrow is five different interviews

1250

00:54:44,580 --> 00:54:42,760

one with my producers a wraparound and

1251
00:54:46,590 --> 00:54:44,590
for specific ones for people actually

1252
00:54:49,170 --> 00:54:46,600
living in Japan and living with this

1253
00:54:52,410 --> 00:54:49,180
horror so you can do that by going to

1254
00:54:54,540 --> 00:54:52,420
nuclear hot seat calm and if you want to

1255
00:54:56,730 --> 00:54:54,550
learn how in the interim to best protect

1256
00:54:58,830 --> 00:54:56,740
your health there are many things that

1257
00:55:01,290 --> 00:54:58,840
you can do and that you need to know

1258
00:55:05,070 --> 00:55:01,300
about and you can find out by going to

1259
00:55:08,190 --> 00:55:05,080
wrapped awareness calm that's our AP

1260
00:55:10,110 --> 00:55:08,200
like Peter T like Tom awareness calm and

1261
00:55:13,080 --> 00:55:10,120
there's a free report there and a

1262
00:55:15,150 --> 00:55:13,090
nuclear hot see you can sign up for an

1263
00:55:17,550 --> 00:55:15,160

email notification every week that gives

1264

00:55:21,780 --> 00:55:17,560

you a link to each week's program well

1265

00:55:24,900 --> 00:55:21,790

yeah that's great so I saw recently that

1266

00:55:28,230 --> 00:55:24,910

they actually were shooting the pets so

1267

00:55:30,960 --> 00:55:28,240

they shot the pets in Fukushima which is

1268

00:55:33,210 --> 00:55:30,970

absolutely horrible there was something

1269

00:55:35,040 --> 00:55:33,220

about that right after the people left

1270

00:55:36,570 --> 00:55:35,050

the pets a lot of the pets were still

1271

00:55:40,890 --> 00:55:36,580

there I guess they couldn't take the

1272

00:55:43,410 --> 00:55:40,900

pets with them they were the what I was

1273

00:55:46,110 --> 00:55:43,420

told in the interview last week is the

1274

00:55:48,450 --> 00:55:46,120

day after the accident on March 12 there

1275

00:55:50,510 --> 00:55:48,460

were knocks on everybody's door they

1276
00:55:54,210 --> 00:55:50,520
were told come on you've got to get out

1277
00:55:56,010 --> 00:55:54,220
you there's no time you can't take your

1278
00:55:57,599 --> 00:55:56,020
pet and people thought that they were

1279
00:55:58,979 --> 00:55:57,609
going to be able to

1280
00:56:02,160 --> 00:55:58,989
come back for their pets and they left

1281
00:56:06,930 --> 00:56:02,170
food and they left water and sad and

1282
00:56:08,400 --> 00:56:06,940
they were bussed 200 300 miles away and

1283
00:56:10,789 --> 00:56:08,410
it was two and a half months before they

1284
00:56:14,339 --> 00:56:10,799
could come back you can just imagine

1285
00:56:16,589 --> 00:56:14,349
unbelievable and again the wild animals

1286
00:56:18,720 --> 00:56:16,599
just taken over now we're coming up on

1287
00:56:21,359 --> 00:56:18,730
the full hour I don't know if you want

1288
00:56:25,079 --> 00:56:21,369

to go any further or if or if this is

1289

00:56:28,579 --> 00:56:25,089

enough of a show I'd like to end the

1290

00:56:32,579 --> 00:56:28,589

show with them talking about possible

1291

00:56:38,220 --> 00:56:32,589

alternatives to nuclear power of the

1292

00:56:42,720 --> 00:56:38,230

green energy absolutely I mean we Solar

1293

00:56:46,529 --> 00:56:42,730

is huge wind is huge geothermal I made a

1294

00:56:48,269 --> 00:56:46,539

list okay Germany last year had days

1295

00:56:51,989 --> 00:56:48,279

where they got almost all of its power

1296

00:56:53,759 --> 00:56:51,999

from from renewables Iceland get

1297

00:56:56,519 --> 00:56:53,769

generates one hundred percent of its

1298

00:56:59,460 --> 00:56:56,529

electricity from renewables Norway over

1299

00:57:01,859 --> 00:56:59,470

ninety-nine percent high levels also in

1300

00:57:03,960 --> 00:57:01,869

Denmark the UK Scotland Ireland but

1301
00:57:08,099 --> 00:57:03,970
here's where there's top-down support

1302
00:57:11,579 --> 00:57:08,109
for this kind of of change over in the

1303
00:57:13,829 --> 00:57:11,589
energy profile China is aiming to spend

1304
00:57:18,089 --> 00:57:13,839
at least three hundred sixty billion

1305
00:57:19,470 --> 00:57:18,099
dollars on renewable energy by 2020 so

1306
00:57:20,880 --> 00:57:19,480
they may be saying they're doing stuff

1307
00:57:22,710 --> 00:57:20,890
with nukes but they're also doing

1308
00:57:24,839 --> 00:57:22,720
renewable energy and this is

1309
00:57:27,239 --> 00:57:24,849
economically the way of the future

1310
00:57:31,650 --> 00:57:27,249
without renewables we're going to be

1311
00:57:35,930 --> 00:57:31,660
tied into the dirty coal akong coal oil

1312
00:57:39,120 --> 00:57:35,940
nuclear and gas which is insane and

1313
00:57:41,039 --> 00:57:39,130

that's not the way the world is going or

1314

00:57:44,900 --> 00:57:41,049

at least the smart countries are going

1315

00:57:47,940 --> 00:57:44,910

we need to put we need to have like a

1316

00:57:50,430 --> 00:57:47,950

what was done after the depression that

1317

00:57:53,999 --> 00:57:50,440

got us out of the depression to make

1318

00:57:58,499 --> 00:57:54,009

this a push for clean green genuinely

1319

00:58:00,900 --> 00:57:58,509

clean green jobs in this technology just

1320

00:58:04,549 --> 00:58:00,910

so that you know there are 65,000 people

1321

00:58:07,499 --> 00:58:04,559

working in solar in California alone and

1322

00:58:09,210 --> 00:58:07,509

260,000 nationwide along with a hundred

1323

00:58:11,219 --> 00:58:09,220

thousand in wind this is a jobs

1324

00:58:13,630 --> 00:58:11,229

generator this is a

1325

00:58:16,690 --> 00:58:13,640

generator and that's the direction that

1326

00:58:19,630 --> 00:58:16,700

we need to go yeah I know the one thing

1327

00:58:22,180 --> 00:58:19,640

you always hear the naysayers about you

1328

00:58:24,880 --> 00:58:22,190

know green energy is not reliable you

1329

00:58:26,709 --> 00:58:24,890

know I I live on a mountain top whoops

1330

00:58:29,799 --> 00:58:26,719

there goes my microphone I live on a

1331

00:58:32,529 --> 00:58:29,809

mountain top I have a lot of wind wind

1332

00:58:34,779 --> 00:58:32,539

power would be excellent here for the

1333

00:58:38,200 --> 00:58:34,789

most part but it's not always reliable

1334

00:58:40,630 --> 00:58:38,210

you know a combination of the two canned

1335

00:58:44,109 --> 00:58:40,640

more you know can work I also really

1336

00:58:45,700 --> 00:58:44,119

strongly believe that within the next 20

1337

00:58:49,450 --> 00:58:45,710

years there's going to be breakthroughs

1338

00:58:52,329 --> 00:58:49,460

in technology I know someone like Elon

1339

00:58:54,279 --> 00:58:52,339

Musk is working on a battery pack you

1340

00:58:56,589 --> 00:58:54,289

know for every house and that somehow is

1341

00:58:59,799 --> 00:58:56,599

going to you know change things and I

1342

00:59:02,829 --> 00:58:59,809

think that enough great minds out there

1343

00:59:05,140 --> 00:59:02,839

can actually get somewhere and there can

1344

00:59:06,819 --> 00:59:05,150

be a better future but you're right i'd

1345

00:59:08,559 --> 00:59:06,829

like to see all the nooks go away we

1346

00:59:11,200 --> 00:59:08,569

didn't really talk about nuclear weapons

1347

00:59:13,089 --> 00:59:11,210

you know as i said in the beginning it's

1348

00:59:15,479 --> 00:59:13,099

a genie that you can't put back in the

1349

00:59:18,640 --> 00:59:15,489

bottle I don't see how that's going to

1350

00:59:19,930 --> 00:59:18,650

how that could ever change I don't know

1351
00:59:23,950 --> 00:59:19,940
if you want to touch on that before we

1352
00:59:26,019 --> 00:59:23,960
go or not there really isn't time but I

1353
00:59:28,779 --> 00:59:26,029
would love to come back and talk with

1354
00:59:31,989 --> 00:59:28,789
you further and be prepared on that

1355
00:59:34,029 --> 00:59:31,999
aspect of the nuclear issue that sounds

1356
00:59:36,209 --> 00:59:34,039
great well thanks so much it's been a

1357
00:59:39,489 --> 00:59:36,219
pleasure as always to talk to you and

1358
00:59:41,769 --> 00:59:39,499
just see I think there's a question up

1359
00:59:44,109 --> 00:59:41,779
nope it's just someone was commenting

1360
00:59:46,959 --> 00:59:44,119
about Fukushima so thanks so much and

1361
00:59:48,969 --> 00:59:46,969
we'll be talking to you soon thank you

1362
00:59:51,160 --> 00:59:48,979
for inviting me i really enjoyed having

1363
00:59:54,130 --> 00:59:51,170

the opportunity to talk with someone who

1364

00:59:58,989 --> 00:59:54,140

gets it and who knows alright thanks so

1365

01:00:02,739 --> 00:59:58,999

much all right everyone so that is

1366

01:00:05,769 --> 01:00:02,749

that's it for our show and thanks so

1367

01:00:09,519 --> 01:00:05,779

much will be on next week we're going to

1368

01:00:12,789 --> 01:00:09,529

be talking with Stan Gordon and he is

1369

01:00:15,640 --> 01:00:12,799

going to be talking about strange animal

1370

01:00:17,499 --> 01:00:15,650

sightings in Pennsylvania I know that's

1371

01:00:20,349 --> 01:00:17,509

kind of a different topic please do

1372

01:00:22,479 --> 01:00:20,359

check out the everything else show

1373

01:00:24,430 --> 01:00:22,489

that's everything hyphen else hyphen

1374

01:00:25,930 --> 01:00:24,440

show comm check

1375

01:00:28,210 --> 01:00:25,940

the upcoming shows again we're booked

1376

01:00:31,230 --> 01:00:28,220

all the way into March and if you have a

1377

01:00:33,940 --> 01:00:31,240

show idea please send me an email and

1378

01:00:36,760 --> 01:00:33,950

the contact information is right on the

1379

01:00:39,130 --> 01:00:36,770

website website and we'll be back we'll

1380

01:00:41,530 --> 01:00:39,140

be back next week I believe the time

1381

01:00:42,970 --> 01:00:41,540

next week is going to be an hour earlier

1382

01:00:45,579 --> 01:00:42,980

than tonight I think it's seven o'clock

1383

01:00:49,180 --> 01:00:45,589

from what I remember and I'll talk to

1384

01:00:52,140 --> 01:00:49,190

you next week and again thanks so much

1385

01:01:05,740 --> 01:01:03,730

[Music]