

David Blume: The Alcohol Conspiracy And The Road Map To Energy Independence



BROUGHT TO YOU BY:

onspiraTees.net



1
00:00:05,690 --> 00:00:03,290
some say we're on the verge of a Great

2
00:00:08,000 --> 00:00:05,700
Awakening others claim the powerful

3
00:00:10,669 --> 00:00:08,010
puppet masters multifaceted stranglehold

4
00:00:13,190 --> 00:00:10,679
is stronger than ever and on the higher

5
00:00:15,890 --> 00:00:13,200
side chats we explore the conspiracies

6
00:00:18,410 --> 00:00:15,900
the mysterious the alternative and the

7
00:00:20,480 --> 00:00:18,420
occult on a quest that rests firmly on

8
00:00:23,269 --> 00:00:20,490
the fringe which won't be sponsored by

9
00:00:25,189 --> 00:00:23,279
audible or stamps.com nor picked up by

10
00:00:29,390 --> 00:00:25,199
the gatekeepers of conventional media or

11
00:00:31,209 --> 00:00:29,400
radio it's a quest of the people so if

12
00:00:33,260 --> 00:00:31,219
you enjoy this first free hour of THC

13
00:00:35,690 --> 00:00:33,270

consider sponsoring the journey yourself

14

00:00:38,959 --> 00:00:35,700

by subscribing at the higher side chats

15

00:00:40,430 --> 00:00:38,969

plus calm just five dollars a month gets

16

00:00:43,090 --> 00:00:40,440

you a second hour with all our great

17

00:00:45,590 --> 00:00:43,100

guests on each of our month's 5 shows

18

00:00:47,810 --> 00:00:45,600

you can also make your own topic and

19

00:00:50,240 --> 00:00:47,820

guest suggestions right on your THC plus

20

00:00:53,689 --> 00:00:50,250

profile communicate with Greg Carl Wood

21

00:00:55,459 --> 00:00:53,699

and have your own custom RSS feed URL to

22

00:00:58,639 --> 00:00:55,469

use and still listen on the majority of

23

00:01:00,049 --> 00:00:58,649

popular podcast applications you can

24

00:01:02,599 --> 00:01:00,059

also support the show with a donation

25

00:01:05,090 --> 00:01:02,609

into the THD Money bomb we're on the

26
00:01:06,980 --> 00:01:05,100
last show of every month we give half of

27
00:01:09,590 --> 00:01:06,990
the total donations back to one of the

28
00:01:11,510 --> 00:01:09,600
random listeners like you who could use

29
00:01:15,050 --> 00:01:11,520
a nice surprise in these troubled times

30
00:01:17,840 --> 00:01:15,060
and lastly to support THC in a free and

31
00:01:19,940 --> 00:01:17,850
equally important way share the show

32
00:01:22,280 --> 00:01:19,950
with your friends review us where you

33
00:01:25,160 --> 00:01:22,290
can and join us in the conversation on

34
00:01:28,039 --> 00:01:25,170
facebook twitter and our subreddit forum

35
00:01:29,569 --> 00:01:28,049
or THC fans and the cerebral adventurers

36
00:01:32,330 --> 00:01:29,579
of the counterculture have taken refuge

37
00:01:34,850 --> 00:01:32,340
and discuss the finer points and our

38
00:01:36,590 --> 00:01:34,860

never an extra to tip the scales in

39

00:01:39,770 --> 00:01:36,600

favor of truth

40

00:02:15,810 --> 00:01:39,780

and enlightenment in a war-torn corrupt

41

00:02:20,140 --> 00:02:17,950

how's it going higher side Cheddar's

42

00:02:22,330 --> 00:02:20,150

from sunny san diego on your humble host

43

00:02:24,250 --> 00:02:22,340

Greg Carl would and there's never been a

44

00:02:26,080 --> 00:02:24,260

more appropriate episode to drink a

45

00:02:27,870 --> 00:02:26,090

little drink and smoke a little smoke in

46

00:02:30,070 --> 00:02:27,880

defiance of the massive

47

00:02:32,410 --> 00:02:30,080

multi-generational propaganda campaign

48

00:02:35,230 --> 00:02:32,420

against my favorite consumable pastimes

49

00:02:37,990 --> 00:02:35,240

this is a great show there's a lot of

50

00:02:40,030 --> 00:02:38,000

awesome practical information in here on

51
00:02:41,380 --> 00:02:40,040
a crucial topic and I feel like anyone

52
00:02:43,510 --> 00:02:41,390
who's having a hard time financially

53
00:02:45,100 --> 00:02:43,520
should really pay attention to the

54
00:02:47,290 --> 00:02:45,110
possibilities this could help them out a

55
00:02:49,090 --> 00:02:47,300
lot as well as anyone who just wants to

56
00:02:51,880 --> 00:02:49,100
stick it to the oil companies the

57
00:02:53,710 --> 00:02:51,890
Rockefeller lineage the IRS and the

58
00:02:55,720 --> 00:02:53,720
international bankers all at the same

59
00:02:58,090 --> 00:02:55,730
time all while improving their own

60
00:03:00,550 --> 00:02:58,100
situation cost of living and much more

61
00:03:02,170 --> 00:03:00,560
it's a bigger deal than it might seem on

62
00:03:04,390 --> 00:03:02,180
the surface and powerful people have

63
00:03:06,250 --> 00:03:04,400

spent billions of dollars to sway your

64

00:03:08,470 --> 00:03:06,260

mind one way and we want all that

65

00:03:10,390 --> 00:03:08,480

spending to be in vain it's pretty cheap

66

00:03:13,060 --> 00:03:10,400

to tell people the truth but the lies

67

00:03:14,890 --> 00:03:13,070

that's what's expensive so listen

68

00:03:16,930 --> 00:03:14,900

carefully to the man with the plan the

69

00:03:19,479 --> 00:03:16,940

dude who beat crude and run on the other

70

00:03:22,120 --> 00:03:19,489

side of this little THC did he done by

71

00:03:25,540 --> 00:03:22,130

one of the listeners named Sean will be

72

00:03:28,610 --> 00:03:25,550

talking with David bloom I walk on the

73

00:03:39,470 --> 00:03:37,369

I walk on the higher side UFOs carry the

74

00:03:42,289 --> 00:03:39,480

elite while crypt is wrinkle fairy dust

75

00:03:44,089 --> 00:03:42,299

we call it DMT the Machine elves capture

76

00:03:45,830 --> 00:03:44,099

the layout of the rapture we can't let

77

00:03:47,960 --> 00:03:45,840

leprechauns get the gold that they're

78

00:03:49,100 --> 00:03:47,970

after like our children come around and

79

00:03:51,289 --> 00:03:49,110

they give you the creeps

80

00:03:53,569 --> 00:03:51,299

Greg Carl would chilling with a gang of

81

00:03:55,699 --> 00:03:53,579

big feet I could say that is that in a

82

00:04:00,369 --> 00:03:55,709

reptilian hope at but I'd rather get

83

00:04:04,819 --> 00:04:00,379

started on a higher side Chet what Greg

84

00:04:07,250 --> 00:04:04,829

where you at I am right here and a big

85

00:04:08,660 --> 00:04:07,260

thanks to Shaun for that one but alright

86

00:04:10,610 --> 00:04:08,670

folks today we're going to uncover yet

87

00:04:12,080 --> 00:04:10,620

another area manipulation and try to

88

00:04:14,000 --> 00:04:12,090

undo some of the damage that the good

89

00:04:16,250 --> 00:04:14,010

old Rockefeller propaganda has done to

90

00:04:18,229 --> 00:04:16,260

our culture yet again and this time in

91

00:04:19,789 --> 00:04:18,239

the area of energy and fuel you know

92

00:04:21,560 --> 00:04:19,799

we've heard about these so-called new

93

00:04:24,650 --> 00:04:21,570

fuel options the past few years with

94

00:04:26,210 --> 00:04:24,660

ethanol or a 15 or 85 and we really

95

00:04:28,250 --> 00:04:26,220

don't know what that is it can get

96

00:04:30,020 --> 00:04:28,260

pretty confusing and the long history of

97

00:04:32,270 --> 00:04:30,030

manipulation and lies only makes it

98

00:04:33,950 --> 00:04:32,280

worse but the situation with oil and

99

00:04:35,689 --> 00:04:33,960

gasoline is one of the most serious on

100

00:04:37,610 --> 00:04:35,699

the planet today and when you hear just

101
00:04:39,020 --> 00:04:37,620
how simple and empowering the solutions

102
00:04:41,390 --> 00:04:39,030
can be you're going to have a whole new

103
00:04:42,860 --> 00:04:41,400
reason to load the nefarious elite so

104
00:04:44,570 --> 00:04:42,870
let's clear up that confusion and

105
00:04:46,189 --> 00:04:44,580
provide a little ethanol enlightenment

106
00:04:48,110 --> 00:04:46,199
with our guest david bloom one of the

107
00:04:49,939 --> 00:04:48,120
leading experts on the topic and he has

108
00:04:51,350 --> 00:04:49,949
been educating people on it probably

109
00:04:53,420 --> 00:04:51,360
longer than I've been alive he's the

110
00:04:55,219 --> 00:04:53,430
author of the book alcohol can be a gas

111
00:04:57,110 --> 00:04:55,229
and is featured heavily in a new

112
00:04:58,790 --> 00:04:57,120
documentary called pump aimed at this

113
00:05:01,129 --> 00:04:58,800

subject as well which premieres in New

114

00:05:02,629 --> 00:05:01,139

York and LA this very weekend it's

115

00:05:04,100 --> 00:05:02,639

fascinating stuff and I think you're

116

00:05:06,290 --> 00:05:04,110

really going to be blown away so let's

117

00:05:09,760 --> 00:05:06,300

do the damn thing David bloom welcome to

118

00:05:12,230 --> 00:05:09,770

THC hey welcome Greg glad to be here

119

00:05:14,060 --> 00:05:12,240

yeah and thanks for doing this I know

120

00:05:16,460 --> 00:05:14,070

that over the years I failed to educate

121

00:05:18,230 --> 00:05:16,470

myself about fuel because it always just

122

00:05:19,790 --> 00:05:18,240

seemed boring and kind of confusing

123

00:05:21,770 --> 00:05:19,800

there's a lot of propaganda out there

124

00:05:24,140 --> 00:05:21,780

and when I learned about your work I was

125

00:05:26,029 --> 00:05:24,150

pretty shocked and being primarily a

126

00:05:28,040 --> 00:05:26,039

conspiracy show we know that entire

127

00:05:29,689 --> 00:05:28,050

populations are often undermine for the

128

00:05:32,089 --> 00:05:29,699

profits of a few and it happens more

129

00:05:33,710 --> 00:05:32,099

than anyone would like to admit but to

130

00:05:35,480 --> 00:05:33,720

get us started why don't you tell us

131

00:05:36,950 --> 00:05:35,490

about the real history here with alcohol

132

00:05:38,390 --> 00:05:36,960

gas because the truth is we've had a

133

00:05:41,660 --> 00:05:38,400

solution longer than we've even had a

134

00:05:43,730 --> 00:05:41,670

problem right David well yeah

135

00:05:46,400 --> 00:05:43,740

so you know if when you think about it

136

00:05:48,770 --> 00:05:46,410

for a minute it wasn't like we

137

00:05:50,420 --> 00:05:48,780

discovered gasoline and said wonder if

138

00:05:54,170 --> 00:05:50,430

we have an engine that would run on that

139

00:05:56,660 --> 00:05:54,180

you know and the engines came first they

140

00:05:59,690 --> 00:05:56,670

ran on other things before gasoline was

141

00:06:02,870 --> 00:05:59,700

invented and that other thing was plain

142

00:06:05,600 --> 00:06:02,880

old a hundred percent moonshine so

143

00:06:09,980 --> 00:06:05,610

alcohol was the first fuel before

144

00:06:11,780 --> 00:06:09,990

gasoline was ever invented and it was

145

00:06:14,180 --> 00:06:11,790

used first for internal combustion

146

00:06:17,930 --> 00:06:14,190

engines and mines where you couldn't

147

00:06:21,740 --> 00:06:17,940

have toxic exhaust and then automobiles

148

00:06:26,360 --> 00:06:21,750

picked up alcohol and continued into the

149

00:06:29,060 --> 00:06:26,370

future the the Model T was a an alcohol

150

00:06:33,470 --> 00:06:29,070

vehicle which was later able to run on

151

00:06:37,370 --> 00:06:33,480

gasoline but Henry Ford was a total

152

00:06:39,410 --> 00:06:37,380

advocate of alcohol fueled because well

153

00:06:43,640 --> 00:06:39,420

you may have heard Ford's famous saying

154

00:06:46,100 --> 00:06:43,650

if if my if my workers can't afford my

155

00:06:49,970 --> 00:06:46,110

car that it's too expensive mm-hmm and

156

00:06:52,340 --> 00:06:49,980

so you know he he looked at at that time

157

00:06:54,680 --> 00:06:52,350

sixty percent of the country was

158

00:06:58,490 --> 00:06:54,690

involved in agriculture so his first

159

00:07:01,250 --> 00:06:58,500

vehicles were tractors and then cars and

160

00:07:03,710 --> 00:07:01,260

you know they all ran on alcohol at that

161

00:07:06,410 --> 00:07:03,720

time because that's not just what was

162

00:07:10,550 --> 00:07:06,420

available but that's what was affordable

163

00:07:12,170 --> 00:07:10,560

so as time we've done there was this

164

00:07:17,000 --> 00:07:12,180

fella named Rockefeller who came along

165

00:07:21,800 --> 00:07:17,010

who was making his money uh replacing

166

00:07:24,980 --> 00:07:21,810

whale oil for lamps with kerosene so

167

00:07:29,180 --> 00:07:24,990

he'd boil up oil and he'd get the heavy

168

00:07:32,000 --> 00:07:29,190

stuff the the kerosene for lighting and

169

00:07:34,910 --> 00:07:32,010

heating and he throw away all the

170

00:07:38,660 --> 00:07:34,920

volatile nasty stuff by dumping it in

171

00:07:40,040 --> 00:07:38,670

streams at night and so uh you know

172

00:07:41,810 --> 00:07:40,050

people didn't like that too much

173

00:07:45,050 --> 00:07:41,820

especially when the river caught on fire

174

00:07:47,360 --> 00:07:45,060

you know so but Rockefeller figured out

175

00:07:49,130 --> 00:07:47,370

that if he fussed around with the car

176

00:07:51,290 --> 00:07:49,140

enough he could get it to run on that

177

00:07:53,840 --> 00:07:51,300

volatile stuff instead of alcohol and

178

00:07:55,380 --> 00:07:53,850

since it was a waste product from his

179

00:07:58,650 --> 00:07:55,390

other industry he

180

00:08:02,730 --> 00:07:58,660

undercut the price of alcohol in the

181

00:08:06,300 --> 00:08:02,740

market so after a bit of time the market

182

00:08:10,140 --> 00:08:06,310

was split between city fuel which was

183

00:08:13,620 --> 00:08:10,150

gasoline and what was sold in the

184

00:08:15,270 --> 00:08:13,630

countryside was alcohol and basically

185

00:08:17,790 --> 00:08:15,280

you had to have a car that would go

186

00:08:19,530 --> 00:08:17,800

between the two so if you drove out in

187

00:08:21,720 --> 00:08:19,540

the country and there were no gas

188

00:08:25,110 --> 00:08:21,730

stations then you had to stop by a farm

189

00:08:27,120 --> 00:08:25,120

and buy a jug of alcohol to put in your

190

00:08:31,110 --> 00:08:27,130

tank and then switch and come on back to

191

00:08:34,290 --> 00:08:31,120

the city so so for a long time there's

192

00:08:37,740 --> 00:08:34,300

quite a tussle in the market between the

193

00:08:40,980 --> 00:08:37,750

two fuels man it is just such a

194

00:08:42,420 --> 00:08:40,990

fascinating story and I mean it I think

195

00:08:44,250 --> 00:08:42,430

a lot of people would be shocked to hear

196

00:08:46,380 --> 00:08:44,260

that ethanol was around right in the

197

00:08:49,800 --> 00:08:46,390

beginning I mean I know I was and then

198

00:08:51,510 --> 00:08:49,810

as Rockefeller wanted to kind of corner

199

00:08:53,310 --> 00:08:51,520

this market I mean that's kind of what

200

00:08:53,580 --> 00:08:53,320

fueled the whole prohibition thing isn't

201
00:08:57,000 --> 00:08:53,590
it

202
00:08:59,910 --> 00:08:57,010
that's right I went to the Henry Ford

203
00:09:03,360 --> 00:08:59,920
Museum in Dearborn and research this

204
00:09:06,210 --> 00:09:03,370
because I had heard it was true and what

205
00:09:10,050 --> 00:09:06,220
I found was that Rockefeller conducted

206
00:09:12,530 --> 00:09:10,060
an enormous campaign against alcohol in

207
00:09:14,970 --> 00:09:12,540
the early part of the 1900s and

208
00:09:17,820 --> 00:09:14,980
basically he just decided he didn't want

209
00:09:20,580 --> 00:09:17,830
50% of the market he wanted the whole

210
00:09:24,590 --> 00:09:20,590
market you know which is basically the

211
00:09:27,990 --> 00:09:24,600
goal of capitalism right is monopoly so

212
00:09:30,960 --> 00:09:28,000
Rockefeller went after alcohol by

213
00:09:33,660 --> 00:09:30,970

demonizing it as a drug you know

214

00:09:37,380 --> 00:09:33,670

basically saying that alcohol is the the

215

00:09:40,320 --> 00:09:37,390

root of all evil and uh and what he did

216

00:09:43,860 --> 00:09:40,330

is he hired the women's Christian

217

00:09:46,140 --> 00:09:43,870

Temperance Movement a group of crazy old

218

00:09:48,690 --> 00:09:46,150

ladies you know they used to go into

219

00:09:51,540 --> 00:09:48,700

bars with umbrellas and beat people

220

00:09:53,880 --> 00:09:51,550

about the head saying you know lips that

221

00:09:56,010 --> 00:09:53,890

touch alcohol will never touch mine and

222

00:09:59,730 --> 00:09:56,020

you know you can imagine how fringy

223

00:10:02,790 --> 00:09:59,740

these people were and yet given millions

224

00:10:05,130 --> 00:10:02,800

of dollars by rockefeller they were able

225

00:10:08,540 --> 00:10:05,140

to walk into Congress and buy off

226

00:10:11,360 --> 00:10:08,550

Congress to make alcohol illegal

227

00:10:13,430 --> 00:10:11,370

for all purposes but you got to

228

00:10:16,509 --> 00:10:13,440

understand this wasn't just passing a

229

00:10:19,490 --> 00:10:16,519

bill this was passing a constitutional

230

00:10:21,710 --> 00:10:19,500

amendment so for the viewers out there

231

00:10:24,949 --> 00:10:21,720

who forgot their civics classes

232

00:10:27,079 --> 00:10:24,959

that's a two-thirds majority now you got

233

00:10:32,120 --> 00:10:27,089

to imagine this was done in the early

234

00:10:34,730 --> 00:10:32,130

1900's and women didn't even vote yet

235

00:10:36,650 --> 00:10:34,740

when this was passed so you can't even

236

00:10:41,090 --> 00:10:36,660

say all the little old ladies pass this

237

00:10:44,660 --> 00:10:41,100

thing it was sheer economic bribery that

238

00:10:47,210 --> 00:10:44,670

had hard-drinking Congress vote against

239

00:10:50,660 --> 00:10:47,220

alcohol and it destroyed alcohol for

240

00:10:53,000 --> 00:10:50,670

about 20 years as a as a fuel in the

241

00:10:56,300 --> 00:10:53,010

United States and caused the destruction

242

00:10:58,190 --> 00:10:56,310

of literally billions of dollars worth

243

00:11:00,829 --> 00:10:58,200

of alcohol producing equipment around

244

00:11:02,660 --> 00:11:00,839

the United States and so for a while

245

00:11:05,210 --> 00:11:02,670

Rockefeller had the whole market to

246

00:11:08,720 --> 00:11:05,220

himself and we became a gasoline

247

00:11:11,240 --> 00:11:08,730

guzzling country huh it's so funny to

248

00:11:12,829 --> 00:11:11,250

hear this because you know I'm not naive

249

00:11:14,690 --> 00:11:12,839

I know that money is behind everything

250

00:11:17,600 --> 00:11:14,700

but I guess I just been led to believe

251

00:11:19,130 --> 00:11:17,610

that prohibition was the one time that

252

00:11:20,360 --> 00:11:19,140

government wanted to crack down on

253

00:11:23,540 --> 00:11:20,370

something for the betterment of society

254

00:11:25,449 --> 00:11:23,550

and then how naive I was well why should

255

00:11:28,010 --> 00:11:25,459

the situation be any different you know

256

00:11:30,769 --> 00:11:28,020

well that's the thing you know people

257

00:11:34,280 --> 00:11:30,779

say oh you're a conspiracy theorist and

258

00:11:37,040 --> 00:11:34,290

when something happens you know uh

259

00:11:39,199 --> 00:11:37,050

you're either a conspiracy theorist or

260

00:11:43,069 --> 00:11:39,209

you're a coincidence theorist you know

261

00:11:45,440 --> 00:11:43,079

that just happens so so basically if

262

00:11:47,449 --> 00:11:45,450

something big happens people work on it

263

00:11:51,530 --> 00:11:47,459

to make it happen and if they work

264

00:11:55,490 --> 00:11:51,540

together or breathe together which is

265

00:11:59,720 --> 00:11:55,500

the meaning of conspiracy you know

266

00:12:02,530 --> 00:11:59,730

that's what happens and so basically you

267

00:12:05,329 --> 00:12:02,540

know it's it's more an expression of

268

00:12:07,850 --> 00:12:05,339

organization versus coincidence when we

269

00:12:10,579 --> 00:12:07,860

talk about how government and

270

00:12:12,560 --> 00:12:10,589

corporations work together to make

271

00:12:15,650 --> 00:12:12,570

something happen for the benefit of the

272

00:12:17,900 --> 00:12:15,660

corporations yeah and on a show called

273

00:12:20,000 --> 00:12:17,910

THC we got to point out I mean this is

274

00:12:21,230 --> 00:12:20,010

almost a direct parallel to the

275

00:12:22,670 --> 00:12:21,240

marijuana hemp issue

276

00:12:24,740 --> 00:12:22,680

the plant was made illegal because it

277

00:12:26,000 --> 00:12:24,750

was a threat to big business and because

278

00:12:27,920 --> 00:12:26,010

people could harvest it on their own

279

00:12:29,540 --> 00:12:27,930

pretty easily again you know it's not

280

00:12:31,610 --> 00:12:29,550

about the consumption of the

281

00:12:33,650 --> 00:12:31,620

quote/unquote drug both products just

282

00:12:35,510 --> 00:12:33,660

happen to be great at taking the edge

283

00:12:37,160 --> 00:12:35,520

off but it's about getting in the way of

284

00:12:39,470 --> 00:12:37,170

huge corporate profits and it's

285

00:12:42,199 --> 00:12:39,480

frustrating and really sad when you hear

286

00:12:46,610 --> 00:12:42,209

the true story well now you know how

287

00:12:48,530 --> 00:12:46,620

they developed the strategy to to stop

288

00:12:51,949 --> 00:12:48,540

him from being in the market it was a

289

00:12:55,160 --> 00:12:51,959

repeat of prohibition and alcohol they

290

00:12:57,790 --> 00:12:55,170

demonized hemp as a drug which it was

291

00:13:01,190 --> 00:12:57,800

practically just a rope at the time and

292

00:13:02,870 --> 00:13:01,200

and then had it prohibited and so the

293

00:13:06,680 --> 00:13:02,880

PlayBook they worked from and

294

00:13:08,000 --> 00:13:06,690

corporations reuse what works over and

295

00:13:11,180 --> 00:13:08,010

over again they're not the most creative

296

00:13:14,750 --> 00:13:11,190

bunch so it worked for alcohol they made

297

00:13:17,180 --> 00:13:14,760

it work for for him and just like in the

298

00:13:18,290 --> 00:13:17,190

case of alcohol only the United States

299

00:13:21,470 --> 00:13:18,300

fell for it

300

00:13:23,420 --> 00:13:21,480

I mean Rockefeller went after France and

301

00:13:25,970 --> 00:13:23,430

Germany and all these other places to

302

00:13:28,720 --> 00:13:25,980

prohibit prohibit alcohol and they all

303

00:13:31,610 --> 00:13:28,730

said you must be kidding prohibit wine

304

00:13:33,740 --> 00:13:31,620

prohibit beer you must be nuts

305

00:13:37,340 --> 00:13:33,750

and so only the United States bought

306

00:13:39,440 --> 00:13:37,350

bought the propaganda just go figure you

307

00:13:41,269 --> 00:13:39,450

know and I've also heard you tell an

308

00:13:43,519 --> 00:13:41,279

interesting anecdote about World War two

309

00:13:45,560 --> 00:13:43,529

I mean the Germans used alcohol as their

310

00:13:48,590 --> 00:13:45,570

fuel right it kind of came into play

311

00:13:51,050 --> 00:13:48,600

with our strategy well you know Germany

312

00:13:53,810 --> 00:13:51,060

was really different than the United

313

00:13:54,949 --> 00:13:53,820

States Germany had a lot of coal but

314

00:13:58,550 --> 00:13:54,959

they had no oil

315

00:14:01,910 --> 00:13:58,560

so basically Germany ran its entire

316

00:14:04,040 --> 00:14:01,920

economy on alcohol all the vehicles ran

317

00:14:07,940 --> 00:14:04,050

on it the trucks ran on it the planes

318

00:14:10,760 --> 00:14:07,950

ran on it and Germany was a powerhouse

319

00:14:14,060 --> 00:14:10,770

in the world because it was exporting

320

00:14:15,710 --> 00:14:14,070

alcohol engines and alcohol equipment

321

00:14:18,620 --> 00:14:15,720

and tractors and everything all around

322

00:14:21,650 --> 00:14:18,630

the world locomotives they made running

323

00:14:23,389 --> 00:14:21,660

on alcohol so that was the national fuel

324

00:14:26,930 --> 00:14:23,399

in Germany in the early part of the

325

00:14:31,819 --> 00:14:26,940

1900s and when it come when it came to

326

00:14:34,140 --> 00:14:31,829

World War two it it was what powered the

327

00:14:37,800 --> 00:14:34,150

the whole German economy

328

00:14:41,400 --> 00:14:37,810

- you have to realize in Germany they

329

00:14:44,510 --> 00:14:41,410

have the same problem there that we have

330

00:14:48,269 --> 00:14:44,520

in the United States today they had huge

331

00:14:51,090 --> 00:14:48,279

surpluses of agriculture now here is

332

00:14:54,630 --> 00:14:51,100

corn we have way too much corn there

333

00:14:58,769 --> 00:14:54,640

they had way too much potatoes and so

334

00:15:01,950 --> 00:14:58,779

there were 77,000 cooperative

335

00:15:05,070 --> 00:15:01,960

distilleries around Germany processing

336

00:15:07,079 --> 00:15:05,080

surplus potatoes and alcohol as we all

337

00:15:10,079 --> 00:15:07,089

know if you make potatoes into alcohol

338

00:15:12,480 --> 00:15:10,089

its vodka right from being born and

339

00:15:16,530 --> 00:15:12,490

alcohol its whiskey but the alcohol is

340

00:15:20,100 --> 00:15:16,540

the same in both cases so when it came

341

00:15:22,650 --> 00:15:20,110

to World War 2 our strategist thought

342

00:15:24,780 --> 00:15:22,660

alright well we'll find Germany's two or

343

00:15:26,579 --> 00:15:24,790

three refineries we'll bomb those and

344

00:15:30,000 --> 00:15:26,589

then we can go back to business

345

00:15:34,769 --> 00:15:30,010

well Germany didn't have any refineries

346

00:15:37,140 --> 00:15:34,779

so they had to bomb 77,000 community

347

00:15:41,910 --> 00:15:37,150

distilleries to end the war took them

348

00:15:45,660 --> 00:15:41,920

four years so in terms of anti-terrorism

349

00:15:48,150 --> 00:15:45,670

or national security the best thing you

350

00:15:50,160 --> 00:15:48,160

can do is have thousands of alcohol

351

00:15:53,100 --> 00:15:50,170

distilleries because you can't be cut

352

00:15:55,740 --> 00:15:53,110

off of energy or fuel and Germany wasn't

353

00:15:59,480 --> 00:15:55,750

so in the nuremberg accords following

354

00:16:01,829 --> 00:15:59,490

World War two they were prohibited from

355

00:16:05,519 --> 00:16:01,839

establishing an alcohol fuel system

356

00:16:08,040 --> 00:16:05,529

again huh so that's how bothersome you

357

00:16:11,340 --> 00:16:08,050

know having those darn farmers in charge

358

00:16:15,480 --> 00:16:11,350

of the Andes and energy supply instead

359

00:16:17,519 --> 00:16:15,490

of a handful of oil corporations man it

360

00:16:18,930 --> 00:16:17,529

just it's just so interesting to hear

361

00:16:20,970 --> 00:16:18,940

that alternative side of things and

362

00:16:23,579 --> 00:16:20,980

going back to Prohibition for a minute

363

00:16:25,230 --> 00:16:23,589

since it was you know about the fuel

364

00:16:27,300 --> 00:16:25,240

side of things and not at all about the

365

00:16:29,790 --> 00:16:27,310

consumption once prohibition ended did

366

00:16:33,750 --> 00:16:29,800

the government keep the fuel side of the

367

00:16:36,030 --> 00:16:33,760

law in place no no the fuel side took

368

00:16:40,079 --> 00:16:36,040

off like a rocket because we are in the

369

00:16:42,960 --> 00:16:40,089

in the early depression near the 30s in

370

00:16:45,990 --> 00:16:42,970

the United States and farmers were the

371

00:16:47,650 --> 00:16:46,000

most hard-hit and so we had a huge

372

00:16:51,910 --> 00:16:47,660

surplus of farm

373

00:16:54,340 --> 00:16:51,920

products because uh World War one had

374

00:16:57,640 --> 00:16:54,350

generated a big demand for wheat and

375

00:16:59,890 --> 00:16:57,650

stuff and so basically after that war

376

00:17:02,800 --> 00:16:59,900

which was roughly the time that

377

00:17:04,720 --> 00:17:02,810

prohibition started it was a double

378

00:17:06,190 --> 00:17:04,730

hammer to the farmers they had they had

379

00:17:09,370 --> 00:17:06,200

increased their production and then

380

00:17:11,170 --> 00:17:09,380

their market went away so after

381

00:17:15,790 --> 00:17:11,180

prohibition farmers started making

382

00:17:17,920 --> 00:17:15,800

alcohol like crazy we had we had a

383

00:17:21,100 --> 00:17:17,930

company one company called agro which

384

00:17:23,800 --> 00:17:21,110

had over two thousand stations

385

00:17:26,320 --> 00:17:23,810

throughout the Midwest and it sold

386

00:17:28,780 --> 00:17:26,330

blends of alcohol and pure alcohol at

387

00:17:31,480 --> 00:17:28,790

the pump and the oil companies to get

388

00:17:35,710 --> 00:17:31,490

rid of this new movement toward alcohol

389

00:17:39,190 --> 00:17:35,720

again did the first media saturation

390

00:17:42,420 --> 00:17:39,200

bombing so what happened the case of

391

00:17:44,440 --> 00:17:42,430

aggro is that the oil companies

392

00:17:46,980 --> 00:17:44,450

hand-delivered because there was no

393

00:17:50,260 --> 00:17:46,990

internet there were no fax machines

394

00:17:53,110 --> 00:17:50,270

hand-delivered press releases to every

395

00:17:55,870 --> 00:17:53,120

radio station in every newspaper in the

396

00:17:59,230 --> 00:17:55,880

country and what the press releases said

397

00:18:01,300 --> 00:17:59,240

was the Agra company wasn't helping

398

00:18:04,360 --> 00:18:01,310

American farmers it was getting

399

00:18:08,320 --> 00:18:04,370

Caribbean molasses and making alcohol

400

00:18:10,930 --> 00:18:08,330

and taking advantage of the positive you

401
00:18:13,030 --> 00:18:10,940
know spin that farmers were providing

402
00:18:15,910 --> 00:18:13,040
this and they were really traitors to

403
00:18:18,850 --> 00:18:15,920
the country well at that time people

404
00:18:22,690 --> 00:18:18,860
believed everything that the press said

405
00:18:26,350 --> 00:18:22,700
and so everyone boycotted agro and in 30

406
00:18:29,800 --> 00:18:26,360
days they were out of business so the

407
00:18:34,770 --> 00:18:29,810
oil companies have become masters at

408
00:18:37,810 --> 00:18:34,780
using the media to discredit and and

409
00:18:41,170 --> 00:18:37,820
otherwise destroy alcohol fuel in this

410
00:18:46,060 --> 00:18:41,180
hundred year war that they'd been in

411
00:18:48,580 --> 00:18:46,070
between farmers and themselves so you

412
00:18:52,870 --> 00:18:48,590
know this the in fact I was talking to

413
00:18:55,540 --> 00:18:52,880

someone here at the premiere the other

414

00:18:58,000 --> 00:18:55,550

night here at pump the movie which is

415

00:18:59,530 --> 00:18:58,010

about alternative fuels and I was

416

00:19:00,970 --> 00:18:59,540

talking to her because she's in the PR

417

00:19:03,460 --> 00:19:00,980

business and I said well

418

00:19:05,700 --> 00:19:03,470

tell me what's the largest PR firm in

419

00:19:08,890 --> 00:19:05,710

the world and she named one and I said

420

00:19:10,900 --> 00:19:08,900

not even close the largest PR firm in

421

00:19:14,470 --> 00:19:10,910

the world is the American Petroleum

422

00:19:18,669 --> 00:19:14,480

Institute and it's bigger than the top

423

00:19:21,700 --> 00:19:18,679

three PR firms put together so when the

424

00:19:25,419 --> 00:19:21,710

when the API cranks up to mess with

425

00:19:27,850 --> 00:19:25,429

alcohol it's a tidal force it's like a

426

00:19:30,130 --> 00:19:27,860

tidal wave coming in across the media

427

00:19:32,919 --> 00:19:30,140

and that's why you haven't heard about

428

00:19:34,510 --> 00:19:32,929

this stuff before yeah I mean you'd

429

00:19:36,539 --> 00:19:34,520

wonder why they would need such a huge

430

00:19:39,490 --> 00:19:36,549

PR firm and now we're starting to

431

00:19:41,200 --> 00:19:39,500

realize that they've had to keep this

432

00:19:43,600 --> 00:19:41,210

secret I mean what about the big oil or

433

00:19:45,280 --> 00:19:43,610

I mean what about the big energy crisis

434

00:19:46,990 --> 00:19:45,290

during the Carter presidency did alcohol

435

00:19:51,340 --> 00:19:47,000

fuel make any kind of rebound

436

00:19:55,890 --> 00:19:51,350

during that well that was the since the

437

00:19:59,440 --> 00:19:55,900

since World War two that was the the big

438

00:20:02,740 --> 00:19:59,450

resurgence of alcohol Carter was

439

00:20:05,980 --> 00:20:02,750

righteously angry that the American oil

440

00:20:08,770 --> 00:20:05,990

companies raised their prices to the

441

00:20:11,080 --> 00:20:08,780

same prices as the Arab embargo

442

00:20:13,930 --> 00:20:11,090

companies the countries in other words

443

00:20:17,500 --> 00:20:13,940

the Arabs had decided our support of

444

00:20:22,570 --> 00:20:17,510

Israel needed to be punished and so they

445

00:20:26,950 --> 00:20:22,580

cut off the oil you know they cut off

446

00:20:29,470 --> 00:20:26,960

the oil uh basically to to show everyone

447

00:20:31,480 --> 00:20:29,480

that they were in charge and that we had

448

00:20:34,090 --> 00:20:31,490

to stop funding Israel and people in

449

00:20:37,270 --> 00:20:34,100

this country for the first time had to

450

00:20:39,039 --> 00:20:37,280

wait in line that were rationed they

451
00:20:41,500 --> 00:20:39,049
could only get fuel every other day and

452
00:20:43,690 --> 00:20:41,510
then only ten gallons people in this

453
00:20:47,320 --> 00:20:43,700
country were not used to having their

454
00:20:50,730 --> 00:20:47,330
freedom to have fuel curtailed and there

455
00:20:56,970 --> 00:20:50,740
was a tremendous amount of anger which

456
00:21:01,180 --> 00:20:56,980
Carter understood and so he slapped on a

457
00:21:03,400 --> 00:21:01,190
\$0.50 a gallon windfalls profit tax

458
00:21:06,370 --> 00:21:03,410
against the oil companies and then gave

459
00:21:08,530 --> 00:21:06,380
all that money to develop alternative

460
00:21:12,600 --> 00:21:08,540
energy and alcohol blossomed again

461
00:21:14,460 --> 00:21:12,610
all across the country in the 1980s late

462
00:21:17,520 --> 00:21:14,470
1970s

463
00:21:21,780 --> 00:21:17,530

and you know thousands of companies got

464

00:21:24,390 --> 00:21:21,790

started then man I'm learning more every

465

00:21:25,260 --> 00:21:24,400

minute so tell us about your personal

466

00:21:28,460 --> 00:21:25,270

journey because I know you've been

467

00:21:30,750 --> 00:21:28,470

involved a lot in empowering

468

00:21:32,010 --> 00:21:30,760

self-sustaining areas over the years and

469

00:21:33,630 --> 00:21:32,020

you've been trying to teach about these

470

00:21:36,150 --> 00:21:33,640

things for a long time when did you

471

00:21:38,700 --> 00:21:36,160

first learn about this well I first

472

00:21:44,370 --> 00:21:38,710

learned about it college back in the

473

00:21:46,200 --> 00:21:44,380

dark ages of the early 70s and I learned

474

00:21:48,780 --> 00:21:46,210

about it from an ecology professor my

475

00:21:53,220 --> 00:21:48,790

profession is as an ecologist and bio

476

00:21:57,150 --> 00:21:53,230

system and test so I learned in an

477

00:21:59,160 --> 00:21:57,160

offhand way just a comment in a class as

478

00:22:02,010 --> 00:21:59,170

we saw a bottle of beer fermenting and

479

00:22:04,650 --> 00:22:02,020

we're talking about it a you know big

480

00:22:07,140 --> 00:22:04,660

big five-gallon bucket of a bottle of

481

00:22:09,810 --> 00:22:07,150

beer from any where the teacher said

482

00:22:11,910 --> 00:22:09,820

that stuff it run your car and I totally

483

00:22:14,010 --> 00:22:11,920

didn't believe him so I went to the

484

00:22:15,600 --> 00:22:14,020

library and figured I'm going to find

485

00:22:19,200 --> 00:22:15,610

out there was never been anything other

486

00:22:21,240 --> 00:22:19,210

than gasoline ha and I was shocked there

487

00:22:24,180 --> 00:22:21,250

was this gigantic hidden history of

488

00:22:27,660 --> 00:22:24,190

alcohol that nobody was talking about so

489

00:22:29,910 --> 00:22:27,670

that's how I I got hooked and when the

490

00:22:33,090 --> 00:22:29,920

gas crisis hit I started working for

491

00:22:35,670 --> 00:22:33,100

Mother Earth News which back in the day

492

00:22:39,090 --> 00:22:35,680

was the alternative energy appropriate

493

00:22:42,090 --> 00:22:39,100

technology think-tank and published a

494

00:22:46,080 --> 00:22:42,100

magazine so I and a couple of other guys

495

00:22:48,390 --> 00:22:46,090

ran the alcohol fuel division of Mother

496

00:22:50,610 --> 00:22:48,400

Earth News and we publish distillery

497

00:22:51,960 --> 00:22:50,620

plans and we distributed them all over

498

00:22:56,400 --> 00:22:51,970

the country and the hundreds of

499

00:22:58,350 --> 00:22:56,410

thousands and you know people were

500

00:23:02,040 --> 00:22:58,360

making alcohol all over the country with

501
00:23:04,110 --> 00:23:02,050
our plans so it was you know gasoline

502
00:23:08,400 --> 00:23:04,120
had gone way up people really motivated

503
00:23:11,910 --> 00:23:08,410
and it was a very worrisome time for the

504
00:23:14,160 --> 00:23:11,920
oil companies and eventually with this

505
00:23:16,950 --> 00:23:14,170
as you went along you eventually ran

506
00:23:19,490 --> 00:23:16,960
into some legal trouble didn't you well

507
00:23:23,480 --> 00:23:19,500
the the legal trouble came about because

508
00:23:27,240 --> 00:23:23,490
the oil companies had mobilized into

509
00:23:28,080 --> 00:23:27,250
into fighting alcohol and so because I

510
00:23:30,990 --> 00:23:28,090
had taught

511
00:23:35,870 --> 00:23:31,000
a couple of hundred workshops and how to

512
00:23:38,700 --> 00:23:35,880
make alcohol of repair in two years the

513
00:23:41,159 --> 00:23:38,710

PBS came to me and said hey let's take

514

00:23:43,649 --> 00:23:41,169

your workshop and make it into a TV

515

00:23:46,380 --> 00:23:43,659

series and so was ten half-hour shows

516

00:23:48,890 --> 00:23:46,390

took two years to produce and we wrote a

517

00:23:52,440 --> 00:23:48,900

book to go along with it which is the

518

00:23:57,539 --> 00:23:52,450

precursor to my modern version alcohol

519

00:24:00,299 --> 00:23:57,549

can be gas and it went on the air in San

520

00:24:03,149 --> 00:24:00,309

Francisco a hundred and thirty PBS

521

00:24:05,730 --> 00:24:03,159

stations were signed up to to air it

522

00:24:08,549 --> 00:24:05,740

after the premiere and during the

523

00:24:09,990 --> 00:24:08,559

premiere I was at the printer getting

524

00:24:13,049 --> 00:24:10,000

the book printed this is all before

525

00:24:16,889 --> 00:24:13,059

desktop publishing right this was actual

526

00:24:19,799 --> 00:24:16,899

photographs and Ruby live and heaven

527

00:24:22,230 --> 00:24:19,809

knows and you know physical paste up of

528

00:24:26,490 --> 00:24:22,240

a book so anyway we're up there getting

529

00:24:30,060 --> 00:24:26,500

the book printed and all of a sudden we

530

00:24:33,750 --> 00:24:30,070

get a call to stop the presses and when

531

00:24:36,659 --> 00:24:33,760

I call KQED I find out that they're

532

00:24:39,539 --> 00:24:36,669

letting the premiere finish but they

533

00:24:42,389 --> 00:24:39,549

cancelled the distribution to the other

534

00:24:44,490 --> 00:24:42,399

hundred and twenty or so stations that

535

00:24:46,830 --> 00:24:44,500

were supposed to hear the show and what

536

00:24:50,549 --> 00:24:46,840

happened was Chevron called them up and

537

00:24:53,549 --> 00:24:50,559

said we don't understand we we thought

538

00:24:55,409 --> 00:24:53,559

you liked our money and why is that on

539

00:24:58,500 --> 00:24:55,419

the air and they just cancelled it

540

00:25:00,870 --> 00:24:58,510

immediately rat you know so anyways all

541

00:25:03,000 --> 00:25:00,880

the facts of that got discovered in a

542

00:25:07,620 --> 00:25:03,010

three-year lawsuit I filed against kqe

543

00:25:09,779 --> 00:25:07,630

oil companies but you know they had lots

544

00:25:12,590 --> 00:25:09,789

of money in big lawyers and they were

545

00:25:18,060 --> 00:25:12,600

able to keep the things suppressed but

546

00:25:20,480 --> 00:25:18,070

well it's out now them right and if I

547

00:25:23,399 --> 00:25:20,490

remember correctly you had done some

548

00:25:26,010 --> 00:25:23,409

distilling of your own which is a big

549

00:25:28,919 --> 00:25:26,020

no-no in this area or at least it was in

550

00:25:31,919 --> 00:25:28,929

the late 80s right yeah you know um

551
00:25:33,960 --> 00:25:31,929
other news we looked into it and we we

552
00:25:36,450 --> 00:25:33,970
found that there was no legal way to

553
00:25:39,210 --> 00:25:36,460
make distillation products in the United

554
00:25:41,490 --> 00:25:39,220
States you could just barely make wine

555
00:25:44,100 --> 00:25:41,500
or beer and only in small batches though

556
00:25:47,580 --> 00:25:44,110
were no brewpubs nothing like that and

557
00:25:50,970 --> 00:25:47,590
that was all a throwback to the

558
00:25:54,420 --> 00:25:50,980
Prohibition era where alcohol was highly

559
00:25:57,930 --> 00:25:54,430
you know regulated so those laws are

560
00:25:59,970 --> 00:25:57,940
still on the books and you know in that

561
00:26:02,810 --> 00:25:59,980
day there was something called the

562
00:26:06,240 --> 00:26:02,820
Government Printing Office which as a

563
00:26:08,520 --> 00:26:06,250

citizen and a taxpayer you could order

564

00:26:12,930 --> 00:26:08,530

anything that the government published

565

00:26:16,710 --> 00:26:12,940

for free and it was all hard copy Wow so

566

00:26:19,050 --> 00:26:16,720

so we went ahead and went to the

567

00:26:24,000 --> 00:26:19,060

government printing office and got the

568

00:26:26,670 --> 00:26:24,010

entire library of regulations of the

569

00:26:29,610 --> 00:26:26,680

alcohol Tobacco and Firearms it stood

570

00:26:32,310 --> 00:26:29,620

about four feet tall on the floor of the

571

00:26:34,710 --> 00:26:32,320

apartment we were working on this in you

572

00:26:36,000 --> 00:26:34,720

know so we got a keg of beer and we said

573

00:26:38,010 --> 00:26:36,010

we're going to find this thing we're

574

00:26:40,410 --> 00:26:38,020

looking for an exception to the rule

575

00:26:43,710 --> 00:26:40,420

somewhere in the regulations that would

576

00:26:45,720 --> 00:26:43,720

led us to still alcohol so here we were

577

00:26:48,360 --> 00:26:45,730

gone through page at a time four of us

578

00:26:51,120 --> 00:26:48,370

looking for the thing and about halfway

579

00:26:53,610 --> 00:26:51,130

through the stack which was good because

580

00:26:54,720 --> 00:26:53,620

if we would have had any more beer we

581

00:26:58,970 --> 00:26:54,730

would have never gotten any further

582

00:27:02,310 --> 00:26:58,980

anyway you know there it was the

583

00:27:04,800 --> 00:27:02,320

experimental distillers license and I

584

00:27:08,040 --> 00:27:04,810

look at that and I go oh this is this is

585

00:27:10,260 --> 00:27:08,050

the wedge we use to drive it in so what

586

00:27:13,200 --> 00:27:10,270

it said was if you were a corporation

587

00:27:16,350 --> 00:27:13,210

that wanted to try something different

588

00:27:17,760 --> 00:27:16,360

or new you didn't have to fill out the

589

00:27:20,520 --> 00:27:17,770

hundred thousand dollars where the

590

00:27:23,400 --> 00:27:20,530

paperwork for a beverage license you

591

00:27:26,430 --> 00:27:23,410

could file this simple form and be able

592

00:27:30,300 --> 00:27:26,440

to do your experiments you know so I

593

00:27:33,720 --> 00:27:30,310

filled it out I sent it in and we got it

594

00:27:36,210 --> 00:27:33,730

back you know all approved it you know

595

00:27:40,620 --> 00:27:36,220

only caused a hundred dollars nice quite

596

00:27:43,200 --> 00:27:40,630

amazing so so we already had our still

597

00:27:46,200 --> 00:27:43,210

built of course we were already playing

598

00:27:47,960 --> 00:27:46,210

with it so we called up the Alcohol

599

00:27:50,970 --> 00:27:47,970

Tobacco and Firearms people and said

600

00:27:51,930 --> 00:27:50,980

hello hello we have a still over here

601
00:27:55,249 --> 00:27:51,940
we're making

602
00:27:59,820 --> 00:27:55,259
you'll you know and like the next day a

603
00:28:03,930 --> 00:27:59,830
SWAT team shows up the ETF shows up and

604
00:28:05,639 --> 00:28:03,940
I get hauled off in handcuffs but we

605
00:28:08,460 --> 00:28:05,649
called the press before they showed up

606
00:28:11,399 --> 00:28:08,470
so the whole thing was you know reported

607
00:28:14,730 --> 00:28:11,409
and filmed so the next morning when I

608
00:28:19,619 --> 00:28:14,740
you know have to go before the judge I

609
00:28:23,249 --> 00:28:19,629
was surrounded by the press in the

610
00:28:25,950 --> 00:28:23,259
courtroom and so uh Here I am standing

611
00:28:28,740 --> 00:28:25,960
there with handcuffs behind me and the

612
00:28:32,129 --> 00:28:28,750
judge says well mr. Blume it seems like

613
00:28:35,129 --> 00:28:32,139

there's not much to discuss here you had

614

00:28:37,049 --> 00:28:35,139

a distillery um and we presume that

615

00:28:40,169 --> 00:28:37,059

means you were going to make alcohol for

616

00:28:41,279 --> 00:28:40,179

it so you seem to be guilty and says do

617

00:28:43,289 --> 00:28:41,289

you have anything to say about that

618

00:28:46,110 --> 00:28:43,299

because I went there to defend with

619

00:28:48,149 --> 00:28:46,120

defending myself for that lawyer and I

620

00:28:51,090 --> 00:28:48,159

said you know Your Honor I do have a

621

00:28:53,399 --> 00:28:51,100

statement and there's a precedent

622

00:28:55,710 --> 00:28:53,409

actually about this and he goes well

623

00:28:59,190 --> 00:28:55,720

what's that mr. bloom and I said well

624

00:29:01,950 --> 00:28:59,200

you see back in England in the 1700s

625

00:29:04,619 --> 00:29:01,960

they arrested a chemist for having a

626

00:29:07,980 --> 00:29:04,629

distillery and the judge says mr. bloom

627

00:29:10,710 --> 00:29:07,990

you're trying my patience 1700s

628

00:29:14,460 --> 00:29:10,720

I said well bear me out your honor so I

629

00:29:16,110 --> 00:29:14,470

said yeah this guy got busted for having

630

00:29:17,879 --> 00:29:16,120

a distillery and the judge said the very

631

00:29:19,950 --> 00:29:17,889

same thing you know you have a

632

00:29:22,470 --> 00:29:19,960

distillery so we presume you're guilty

633

00:29:25,889 --> 00:29:22,480

and it's because you have the equipment

634

00:29:27,990 --> 00:29:25,899

in your possession and the young chemist

635

00:29:32,310 --> 00:29:28,000

said well in that case Your Honor I have

636

00:29:34,830 --> 00:29:32,320

another crime to you know to confess to

637

00:29:37,740 --> 00:29:34,840

and it just says well what is it he said

638

00:29:39,990 --> 00:29:37,750

well I have to confess to rape the

639

00:29:42,899 --> 00:29:40,000

Justice Great Scott did you rape

640

00:29:45,019 --> 00:29:42,909

somebody and the chemist said no but I

641

00:29:46,830 --> 00:29:45,029

have the equipment in my possession

642

00:29:49,470 --> 00:29:46,840

that's so good

643

00:29:53,310 --> 00:29:49,480

so my judge says mr. bloom there will be

644

00:29:55,259 --> 00:29:53,320

no levity in my courtroom and all the

645

00:29:59,430 --> 00:29:55,269

whole press started laughing at that

646

00:30:00,690 --> 00:29:59,440

comment but I then said well your honor

647

00:30:03,250 --> 00:30:00,700

can you have the bailiff pulled this

648

00:30:06,130 --> 00:30:03,260

piece of paper out of my back pocket and

649

00:30:07,780 --> 00:30:06,140

so they take paper out of my back pocket

650

00:30:10,450 --> 00:30:07,790

because I couldn't get to it I was

651
00:30:12,190 --> 00:30:10,460
handcuffed and they brought it up to the

652
00:30:14,950 --> 00:30:12,200
judge and the judge opens it up and

653
00:30:17,410 --> 00:30:14,960
looks at it he goes my god this man has

654
00:30:20,410 --> 00:30:17,420
a distillery permit I said that's right

655
00:30:22,960 --> 00:30:20,420
take these cuffs off I'm walking out and

656
00:30:25,450 --> 00:30:22,970
that's what happened but that wasn't the

657
00:30:27,910 --> 00:30:25,460
end of it we wrote an article about it

658
00:30:29,740 --> 00:30:27,920
we published it around the country how

659
00:30:35,650 --> 00:30:29,750
to get your own permanent what happened

660
00:30:38,470 --> 00:30:35,660
to me and 250,000 people applied for the

661
00:30:39,790 --> 00:30:38,480
permit hmm now you know you think a

662
00:30:42,370 --> 00:30:39,800
government can handle that but there

663
00:30:44,440 --> 00:30:42,380

were only three guys in the alcohol

664

00:30:48,370 --> 00:30:44,450

Tobacco and Firearms office to process

665

00:30:50,680 --> 00:30:48,380

these permits so they come into work and

666

00:30:54,730 --> 00:30:50,690

the entire office is full from floor to

667

00:30:56,440 --> 00:30:54,740

ceiling with sacks of mail so so this

668

00:31:00,070 --> 00:30:56,450

caused me to be called up before

669

00:31:02,380 --> 00:31:00,080

Congress remember this is the oil crisis

670

00:31:07,090 --> 00:31:02,390

and the head of the ATF was called up

671

00:31:09,940 --> 00:31:07,100

before Congress and the the senator who

672

00:31:13,540 --> 00:31:09,950

was in charge of the hearing was George

673

00:31:16,330 --> 00:31:13,550

McGovern so for those of you who weren't

674

00:31:20,500 --> 00:31:16,340

part of the 60s and 70s George McGovern

675

00:31:23,050 --> 00:31:20,510

was really for Congress a real radical

676

00:31:25,570 --> 00:31:23,060

Democrat I mean he tried to stop the

677

00:31:27,400 --> 00:31:25,580

Vietnam War he was a good guy so anyway

678

00:31:29,650 --> 00:31:27,410

he houses both up there in Congress and

679

00:31:32,740 --> 00:31:29,660

he goes to the ATF president you know

680

00:31:35,590 --> 00:31:32,750

I'm director and says can you explain to

681

00:31:38,500 --> 00:31:35,600

me why you're stopping patriotic

682

00:31:41,190 --> 00:31:38,510

Americans from making alcohol to power

683

00:31:44,140 --> 00:31:41,200

their cars instead of buying Arab oil

684

00:31:46,090 --> 00:31:44,150

well the guy who's standing there is

685

00:31:48,700 --> 00:31:46,100

just a bureaucrat he's not used to a

686

00:31:51,880 --> 00:31:48,710

senator calling him out on the carpet

687

00:31:55,210 --> 00:31:51,890

sputtering there and McGovern turns to

688

00:31:57,430 --> 00:31:55,220

me and says well do you have a an answer

689

00:32:00,670 --> 00:31:57,440

to this mr. bloom I said your honor I

690

00:32:04,330 --> 00:32:00,680

have actually a pretty simple to follow

691

00:32:06,820 --> 00:32:04,340

a piece of paper here which would be a

692

00:32:10,300 --> 00:32:06,830

pretty good model for a permit the ATF

693

00:32:12,970 --> 00:32:10,310

could use to register all the stills and

694

00:32:14,830 --> 00:32:12,980

it's only a page and a half and so they

695

00:32:17,049 --> 00:32:14,840

take it up to McGovern he goes well that

696

00:32:18,489 --> 00:32:17,059

looks good and he turns to the ATF guy

697

00:32:20,529 --> 00:32:18,499

says you think that's good enough and

698

00:32:22,239 --> 00:32:20,539

the etf guy would have agreed to

699

00:32:25,840 --> 00:32:22,249

anything at that point to get out of the

700

00:32:28,840 --> 00:32:25,850

room so that permit is still um pretty

701
00:32:31,269 --> 00:32:28,850
much unchanged till today you can make

702
00:32:33,580 --> 00:32:31,279
your own alcohol based on the permit I

703
00:32:35,830 --> 00:32:33,590
wrote and you can make up to five

704
00:32:38,019 --> 00:32:35,840
thousand gallons a year the permit is

705
00:32:39,460 --> 00:32:38,029
free and it's really easy to fill out

706
00:32:42,489 --> 00:32:39,470
Wow

707
00:32:45,519 --> 00:32:42,499
so yeah that's it's so crazy that there

708
00:32:48,249 --> 00:32:45,529
would be such a loophole in the system

709
00:32:49,749 --> 00:32:48,259
but it's really not surprising when you

710
00:32:51,129 --> 00:32:49,759
find that it's originally there for

711
00:32:52,779 --> 00:32:51,139
corporate purposes you know they're the

712
00:32:55,570 --> 00:32:52,789
only ones who you think would use it

713
00:32:57,730 --> 00:32:55,580

that's right so the history is really

714

00:33:00,249 --> 00:32:57,740

cool there's much much more history but

715

00:33:03,820 --> 00:33:00,259

you know the point was that it's been a

716

00:33:05,799 --> 00:33:03,830

struggle between alcohol and the people

717

00:33:07,989 --> 00:33:05,809

that control fossil fuel for a long time

718

00:33:11,289 --> 00:33:07,999

because alcohol can be used for more

719

00:33:13,690 --> 00:33:11,299

than running a car we can run generators

720

00:33:17,080 --> 00:33:13,700

with it in fact General Electric it's

721

00:33:19,029 --> 00:33:17,090

great big turbine generators are

722

00:33:20,739 --> 00:33:19,039

certified for alcohol fuel and they

723

00:33:24,389 --> 00:33:20,749

didn't have to have anything replaced to

724

00:33:27,129 --> 00:33:24,399

do that they you know are already able

725

00:33:28,810 --> 00:33:27,139

locomotives can run on alcohol as the

726

00:33:32,799 --> 00:33:28,820

Germans prove they sold alcohol

727

00:33:36,759 --> 00:33:32,809

locomotives to to Egypt that we're just

728

00:33:39,850 --> 00:33:36,769

fine airplanes in Brazil run on alcohol

729

00:33:41,710 --> 00:33:39,860

and we you know as we said the whole

730

00:33:44,529 --> 00:33:41,720

German air force ran an alcohol World

731

00:33:46,389 --> 00:33:44,539

War two so there are many things to use

732

00:33:50,200 --> 00:33:46,399

it for but you know the most important

733

00:33:52,779 --> 00:33:50,210

thing might not even be cars the most

734

00:33:55,989 --> 00:33:52,789

important thing that actually affects

735

00:34:01,060 --> 00:33:55,999

half the world three and a half billion

736

00:34:02,999 --> 00:34:01,070

people is cooking because those people

737

00:34:07,570 --> 00:34:03,009

that three and a half billion people

738

00:34:15,760 --> 00:34:07,580

they cook with wood or kerosene indoors

739

00:34:18,579 --> 00:34:15,770

and so the huge health health toxicity

740

00:34:21,639 --> 00:34:18,589

of breathing any kind of smoke whether

741

00:34:23,260 --> 00:34:21,649

it's wood or kerosene is immense and so

742

00:34:27,069 --> 00:34:23,270

you're looking at four or five million

743

00:34:29,859 --> 00:34:27,079

women a year who die from breathing that

744

00:34:31,359 --> 00:34:29,869

smoke just while they're cooking the

745

00:34:36,809 --> 00:34:31,369

fact Hillary Clinton went into one of

746

00:34:39,309 --> 00:34:36,819

these Hut's during her Perot time and

747

00:34:41,740 --> 00:34:39,319

she's choking on the smoke and the

748

00:34:43,480 --> 00:34:41,750

woman's house in this little Hut and she

749

00:34:46,559 --> 00:34:43,490

goes to the wall with her fingers and

750

00:34:50,079 --> 00:34:46,569

can scrape carbon right off the walls

751

00:34:52,599 --> 00:34:50,089

and you know those are the same thing as

752

00:34:53,470 --> 00:34:52,609

people's lungs right being covered with

753

00:34:56,670 --> 00:34:53,480

all this crud

754

00:35:00,430 --> 00:34:56,680

so she really went on a pretty good

755

00:35:03,670 --> 00:35:00,440

rampage about how people should not have

756

00:35:07,780 --> 00:35:03,680

to die just because they're cooking so a

757

00:35:10,569 --> 00:35:07,790

couple of things got put into place the

758

00:35:14,140 --> 00:35:10,579

Global Alliance for clean cookstoves

759

00:35:18,190 --> 00:35:14,150

at the UN got put together and the EPA

760

00:35:21,190 --> 00:35:18,200

had an indoor air division developed all

761

00:35:24,400 --> 00:35:21,200

about trying to end indoor cooking a

762

00:35:26,680 --> 00:35:24,410

wood now there's two aspects of this

763

00:35:29,920 --> 00:35:26,690

what is the health aspect but the other

764

00:35:32,740 --> 00:35:29,930

is the deforestation aspect because it

765

00:35:35,440 --> 00:35:32,750

turns out that the great majority not

766

00:35:37,870 --> 00:35:35,450

just a little majority of deforestation

767

00:35:41,920 --> 00:35:37,880

happens because people simply want to

768

00:35:43,990 --> 00:35:41,930

cook their food so uh you know timber

769

00:35:48,430 --> 00:35:44,000

harvest and all that for construction

770

00:35:51,250 --> 00:35:48,440

lumber is nothing compared to what we're

771

00:35:54,700 --> 00:35:51,260

talking about when it comes to cooks you

772

00:35:57,700 --> 00:35:54,710

know cooking so uh you know we do a

773

00:36:01,599 --> 00:35:57,710

demonstration of how clean these stoves

774

00:36:05,079 --> 00:36:01,609

are versus you know using a fossil fuel

775

00:36:07,839 --> 00:36:05,089

or a wood source on the Gaian networks

776

00:36:12,130 --> 00:36:07,849

one of the you know it's the real goods

777

00:36:15,550 --> 00:36:12,140

company so gyeom they have a network and

778

00:36:17,589 --> 00:36:15,560

the story um show called beyond belief

779

00:36:19,780 --> 00:36:17,599

of George Noory who is one of your

780

00:36:22,870 --> 00:36:19,790

colleagues George Noory has a big radio

781

00:36:26,140 --> 00:36:22,880

show and we do on that television show

782

00:36:28,180 --> 00:36:26,150

an example of burning both fuels and

783

00:36:30,789 --> 00:36:28,190

you'll see that the Pyrex Bowl that's

784

00:36:34,780 --> 00:36:30,799

full of gasoline turns completely black

785

00:36:37,870 --> 00:36:34,790

with huge foul clouds of smoke and we

786

00:36:40,240 --> 00:36:37,880

burn alcohol next to it no carbon in the

787

00:36:42,220 --> 00:36:40,250

ball you can almost not even see the

788

00:36:45,300 --> 00:36:42,230

flame it's so clean

789

00:36:49,540 --> 00:36:45,310

and those stoves are available for

790

00:36:52,540 --> 00:36:49,550

people to use for cooking around the

791

00:36:56,830 --> 00:36:52,550

world and that stove was also in the you

792

00:36:59,380 --> 00:36:56,840

know in the TV clip so uh you know so

793

00:37:01,060 --> 00:36:59,390

basically we have the solution right

794

00:37:04,150 --> 00:37:01,070

there for three and a half billion

795

00:37:08,440 --> 00:37:04,160

people to be able to cook and not die

796

00:37:11,490 --> 00:37:08,450

from cooking uh and alcohol you know

797

00:37:13,840 --> 00:37:11,500

unlike wood is actually more convenient

798

00:37:16,690 --> 00:37:13,850

seeing these places where people cook

799

00:37:20,859 --> 00:37:16,700

with wood they end up walking eventually

800

00:37:23,020 --> 00:37:20,869

five or six hours one way to get a

801
00:37:25,720 --> 00:37:23,030
hundred pounds of wood to bring back to

802
00:37:27,880 --> 00:37:25,730
their village and then use that for a

803
00:37:29,980 --> 00:37:27,890
week's worth of cooking that's because

804
00:37:32,440 --> 00:37:29,990
all the other would be has already been

805
00:37:34,330 --> 00:37:32,450
harvested by people for cooking or like

806
00:37:37,599 --> 00:37:34,340
humans are like termites going out there

807
00:37:40,450 --> 00:37:37,609
eating the forest right so if you make

808
00:37:42,880 --> 00:37:40,460
alcohol basically you're growing a

809
00:37:45,940 --> 00:37:42,890
sugary or starchy crop right where you

810
00:37:48,910 --> 00:37:45,950
live let's say it's like tapioca which

811
00:37:50,890 --> 00:37:48,920
is a very common root crop all over the

812
00:37:54,130 --> 00:37:50,900
tropics or you know maybe it's a little

813
00:37:55,840 --> 00:37:54,140

sugar cane or maybe it's prickly pear

814

00:38:00,040 --> 00:37:55,850

cactus whatever grows well in your

815

00:38:02,800 --> 00:38:00,050

climate you ferment it you know which is

816

00:38:05,170 --> 00:38:02,810

just like making wine or beer you mush

817

00:38:07,750 --> 00:38:05,180

up the stuff you heat it up and then you

818

00:38:12,580 --> 00:38:07,760

throw yeast in the yeast eat the sugar

819

00:38:14,950 --> 00:38:12,590

and they pee out alcohol so when it gets

820

00:38:15,760 --> 00:38:14,960

up around twelve or thirteen percent

821

00:38:19,060 --> 00:38:15,770

alcohol

822

00:38:20,830 --> 00:38:19,070

well the yeast keel over dead drunk the

823

00:38:23,109 --> 00:38:20,840

now you've got wine you've got really

824

00:38:25,690 --> 00:38:23,119

weird brown wine let's say from prickly

825

00:38:28,090 --> 00:38:25,700

pear cactus so you boil that up in a

826

00:38:29,530 --> 00:38:28,100

distillery and you can make it one

827

00:38:31,630 --> 00:38:29,540

hundred percent alcohol you know

828

00:38:33,550 --> 00:38:31,640

depending on the technology that's what

829

00:38:36,609 --> 00:38:33,560

you use for cooking or in your car or

830

00:38:39,280 --> 00:38:36,619

whatever so if you're in a village well

831

00:38:42,520 --> 00:38:39,290

you grow some of this stuff you make the

832

00:38:44,109 --> 00:38:42,530

alcohol and then people use it you can

833

00:38:45,820 --> 00:38:44,119

sell it if you're a business little

834

00:38:48,040 --> 00:38:45,830

business or if it's a cooperative the

835

00:38:50,260 --> 00:38:48,050

whole village uses it so the thing is no

836

00:38:53,109 --> 00:38:50,270

one has to and when I say no one I mean

837

00:38:54,170 --> 00:38:53,119

all 1,000 people in the village don't

838

00:38:56,420 --> 00:38:54,180

have to for

839

00:38:59,240 --> 00:38:56,430

out there six hours to get there would

840

00:39:01,910 --> 00:38:59,250

and that means they get to stay home

841

00:39:03,890 --> 00:39:01,920

they get to do what they need to do for

842

00:39:06,380 --> 00:39:03,900

farming and everything else instead of

843

00:39:10,460 --> 00:39:06,390

huge time sink to go out just to get

844

00:39:12,200 --> 00:39:10,470

cooking wood and it's not dangerous can

845

00:39:14,330 --> 00:39:12,210

you imagine being a single woman going

846

00:39:17,540 --> 00:39:14,340

out to get 100 pounds of wood walking

847

00:39:21,620 --> 00:39:17,550

six hours on a road in Africa this this

848

00:39:23,360 --> 00:39:21,630

is not safe okay so so basically you

849

00:39:25,970 --> 00:39:23,370

know this affects half the world and

850

00:39:29,180 --> 00:39:25,980

it's more important than our being able

851
00:39:32,030 --> 00:39:29,190
to drive our cars on 50 cent a gallon

852
00:39:34,160 --> 00:39:32,040
alcohol so this propaganda has

853
00:39:36,350 --> 00:39:34,170
definitely been effective and today so

854
00:39:38,870 --> 00:39:36,360
much of global politics is about

855
00:39:41,990 --> 00:39:38,880
controlling oil are there any countries

856
00:39:43,970 --> 00:39:42,000
that still today run on alcohol or have

857
00:39:47,780 --> 00:39:43,980
they all kind of fallen in line with

858
00:39:51,650 --> 00:39:47,790
with this propaganda well up until World

859
00:39:54,170 --> 00:39:51,660
War two most countries ran on alcohol

860
00:39:57,220 --> 00:39:54,180
because there was no way to deliver oil

861
00:40:00,140 --> 00:39:57,230
to them the International tanker fleet

862
00:40:02,540 --> 00:40:00,150
wasn't in existence yet so if you were

863
00:40:05,450 --> 00:40:02,550

somewhere like New Zealand which is like

864

00:40:07,130 --> 00:40:05,460

the last stop before Antarctica you

865

00:40:10,280 --> 00:40:07,140

aren't getting any oil delivered and

866

00:40:13,070 --> 00:40:10,290

places like the Philippines too far from

867

00:40:16,430 --> 00:40:13,080

any source of oil that was developed so

868

00:40:18,980 --> 00:40:16,440

these places had to use alcohol so in

869

00:40:21,860 --> 00:40:18,990

the the New Zealand they use sugar beets

870

00:40:24,200 --> 00:40:21,870

and you know which were a great source

871

00:40:27,230 --> 00:40:24,210

for alcohol and they also used sorghum

872

00:40:28,010 --> 00:40:27,240

which mix blackstrap molasses in the

873

00:40:30,500 --> 00:40:28,020

United States

874

00:40:33,380 --> 00:40:30,510

sorghum looks like corn and a little bit

875

00:40:35,390 --> 00:40:33,390

like sugarcane and you can squeeze it to

876

00:40:38,510 --> 00:40:35,400

get the the juice out and make kind of a

877

00:40:39,740 --> 00:40:38,520

whiskey from it so those countries had

878

00:40:43,850 --> 00:40:39,750

to use those things up in the

879

00:40:46,040 --> 00:40:43,860

Philippines they tapped nipa palm trees

880

00:40:48,260 --> 00:40:46,050

so it's kind of like maple sugar tapping

881

00:40:51,500 --> 00:40:48,270

you know and they got this huge flow of

882

00:40:54,170 --> 00:40:51,510

sugar water out of these trees fermented

883

00:40:55,760 --> 00:40:54,180

and distilled that and before bor to the

884

00:40:58,940 --> 00:40:55,770

philippines were making seventy five

885

00:41:02,600 --> 00:40:58,950

million gallons of alcohol a year from

886

00:41:03,440 --> 00:41:02,610

palm drippings okay so so this was done

887

00:41:05,520 --> 00:41:03,450

all over the world

888

00:41:08,610 --> 00:41:05,530

well when world war ii happened

889

00:41:10,890 --> 00:41:08,620

that's when our tax dollars built the

890

00:41:12,690 --> 00:41:10,900

tanker fleet and so then the oil

891

00:41:16,920 --> 00:41:12,700

companies could deliver all over the

892

00:41:19,080 --> 00:41:16,930

world and pretty much out competed

893

00:41:21,450 --> 00:41:19,090

alcohol because of all the subsidies

894

00:41:25,140 --> 00:41:21,460

that the oil companies received now

895

00:41:27,240 --> 00:41:25,150

Brazil up until World War two was

896

00:41:28,950 --> 00:41:27,250

completely running on alcohol they had

897

00:41:31,920 --> 00:41:28,960

sugarcane to beat the band

898

00:41:35,790 --> 00:41:31,930

it went away after World War two for a

899

00:41:40,320 --> 00:41:35,800

while but when the oil crisis of the

900

00:41:42,000 --> 00:41:40,330

late 70s came into play unlike the other

901
00:41:45,630 --> 00:41:42,010
countries in Latin America which

902
00:41:48,900 --> 00:41:45,640
borrowed money to buy oil Brazil said

903
00:41:51,120 --> 00:41:48,910
none of that and they had a within one

904
00:41:53,520 --> 00:41:51,130
generations memory of running the

905
00:41:54,270 --> 00:41:53,530
country on alcohol so they went right

906
00:41:59,280 --> 00:41:54,280
back to it

907
00:42:02,460 --> 00:41:59,290
and today 95% of the cars in Brazil run

908
00:42:04,410 --> 00:42:02,470
on straight alcohol and unlike the other

909
00:42:07,860 --> 00:42:04,420
countries in Latin America they don't

910
00:42:09,840 --> 00:42:07,870
have any foreign debt you know we when

911
00:42:12,690 --> 00:42:09,850
we lent money for something that gets

912
00:42:14,760 --> 00:42:12,700
used up almost instantly to Latin

913
00:42:18,180 --> 00:42:14,770

America we put them in debt forever

914

00:42:22,050 --> 00:42:18,190

right God do you think someone had a

915

00:42:24,000 --> 00:42:22,060

plan about that one you know so so

916

00:42:28,950 --> 00:42:24,010

anyway Brazil didn't in Brazil is the

917

00:42:31,260 --> 00:42:28,960

powerhouse economy of Latin America and

918

00:42:32,610 --> 00:42:31,270

you know depending on who you talk to

919

00:42:36,990 --> 00:42:32,620

you their economy might even be better

920

00:42:39,450 --> 00:42:37,000

than ours so so you know I'm people in

921

00:42:41,880 --> 00:42:39,460

Brazil who grow sugar cane they're

922

00:42:44,970 --> 00:42:41,890

unionized it's the biggest union in

923

00:42:48,180 --> 00:42:44,980

Brazil the sugar cane workers and they

924

00:42:49,830 --> 00:42:48,190

get a fair shake you know because the

925

00:42:52,890 --> 00:42:49,840

whole country depends on them not just

926
00:42:55,800 --> 00:42:52,900
for sugar but for energy so you know

927
00:42:57,870 --> 00:42:55,810
once you start empowering farmers with

928
00:43:01,110 --> 00:42:57,880
the energy production of this country

929
00:43:02,700 --> 00:43:01,120
they suddenly get a voice because you

930
00:43:04,890 --> 00:43:02,710
know what they're providing is something

931
00:43:08,370 --> 00:43:04,900
people need and that's what we all need

932
00:43:10,050 --> 00:43:08,380
is organization and a voice and how

933
00:43:13,500 --> 00:43:10,060
things get done I mean that is the

934
00:43:15,210 --> 00:43:13,510
quaint idea of democracy that we kind of

935
00:43:16,250 --> 00:43:15,220
have a say in how we get governed you

936
00:43:18,740 --> 00:43:16,260
know

937
00:43:21,550 --> 00:43:18,750
the way you get that say is with

938
00:43:24,500 --> 00:43:21,560

economic power and so producing energy

939

00:43:27,620 --> 00:43:24,510

that's the way to do it yeah and this

940

00:43:30,109 --> 00:43:27,630

could clearly replace oils but I mean

941

00:43:33,800 --> 00:43:30,119

even in the era of nuclear meltdowns in

942

00:43:36,609 --> 00:43:33,810

Japan could this could go far enough to

943

00:43:39,680 --> 00:43:36,619

replace nuclear energy

944

00:43:43,160 --> 00:43:39,690

absolutely nuclear energy in the u.s. is

945

00:43:45,620 --> 00:43:43,170

about 20% of our electricity and then if

946

00:43:47,990 --> 00:43:45,630

coal is the next big one in natural gas

947

00:43:51,849 --> 00:43:48,000

and then there's small parts that go to

948

00:43:54,980 --> 00:43:51,859

you know hydroelectric which is clean

949

00:43:58,070 --> 00:43:54,990

but controversial and a little tiny bit

950

00:43:59,540 --> 00:43:58,080

of renewable energy so one of our one of

951
00:44:02,630 --> 00:43:59,550
the big numbers we've got to replace

952
00:44:05,570 --> 00:44:02,640
well it's coal and nuclear primarily so

953
00:44:07,609 --> 00:44:05,580
in the United States we have the

954
00:44:10,280 --> 00:44:07,619
potential and the United States is a

955
00:44:12,680 --> 00:44:10,290
good case because we are the energy pigs

956
00:44:14,870 --> 00:44:12,690
of the world we use about a quarter of

957
00:44:16,849 --> 00:44:14,880
all the energy in the world so if you

958
00:44:19,540 --> 00:44:16,859
could replace it here you can do it

959
00:44:22,160 --> 00:44:19,550
anywhere so the United States by

960
00:44:24,770 --> 00:44:22,170
switching up some of the crops it uses

961
00:44:27,290 --> 00:44:24,780
to make alcohol away from corn which is

962
00:44:30,609 --> 00:44:27,300
a low yield alcohol crop to ones that

963
00:44:35,000 --> 00:44:30,619

yield 3 or 10 times as much as corn

964

00:44:36,890 --> 00:44:35,010

things like again sugar beets or sorghum

965

00:44:40,520 --> 00:44:36,900

you know things that are more productive

966

00:44:44,090 --> 00:44:40,530

per acre we can replace not only all the

967

00:44:46,490 --> 00:44:44,100

nuclear power and we could use the

968

00:44:48,710 --> 00:44:46,500

nuclear facilities because the turbines

969

00:44:50,470 --> 00:44:48,720

at those places work perfectly fine but

970

00:44:54,440 --> 00:44:50,480

we could run them on alcohol instead

971

00:44:57,530 --> 00:44:54,450

shut down the reactor we can also we

972

00:44:59,420 --> 00:44:57,540

could also replace all the cold Wow same

973

00:45:02,030 --> 00:44:59,430

thing we could use all their equipment

974

00:45:05,900 --> 00:45:02,040

to produce electricity and shut down the

975

00:45:09,500 --> 00:45:05,910

coal boilers you know and we could also

976

00:45:12,200 --> 00:45:09,510

replace all the gasoline and diesel that

977

00:45:15,080 --> 00:45:12,210

run the vehicles that this is because

978

00:45:17,810 --> 00:45:15,090

alcohol is made from solar energy which

979

00:45:19,790 --> 00:45:17,820

as you might have noticed uh falls

980

00:45:21,380 --> 00:45:19,800

everywhere doesn't just fall in this

981

00:45:24,890 --> 00:45:21,390

place or that place you know it's like

982

00:45:26,599 --> 00:45:24,900

you can't monopolize solar energy so we

983

00:45:28,730 --> 00:45:26,609

can make alcohol with different

984

00:45:29,630 --> 00:45:28,740

different crops different plants and

985

00:45:32,240 --> 00:45:29,640

waste

986

00:45:35,599 --> 00:45:32,250

products everywhere it's about as

987

00:45:37,759 --> 00:45:35,609

democratic a fuel as you can get but the

988

00:45:40,069 --> 00:45:37,769

quantities we can get because the amount

989

00:45:43,099 --> 00:45:40,079

of energy that hits the earth from from

990

00:45:46,430 --> 00:45:43,109

the Sun is truly immense instead of

991

00:45:50,299 --> 00:45:46,440

these little dinky monopolized energy

992

00:45:53,120 --> 00:45:50,309

supplies like you know : oil so the

993

00:45:56,019 --> 00:45:53,130

whole world could actually be running on

994

00:45:59,539 --> 00:45:56,029

alcohol in as little as ten years huh

995

00:46:01,069 --> 00:45:59,549

Wow and it's a you say it's a natural

996

00:46:02,720 --> 00:46:01,079

process let's talk about that a little

997

00:46:04,579 --> 00:46:02,730

bit because obviously there's the

998

00:46:07,220 --> 00:46:04,589

alcohol you drink and is this is the

999

00:46:09,250 --> 00:46:07,230

only difference between fuel and alcohol

1000

00:46:12,349 --> 00:46:09,260

you would drink the strength of it

1001

00:46:14,509 --> 00:46:12,359

that's right it's it's the same stuff

1002

00:46:17,180 --> 00:46:14,519

although when you make alcohol it's not

1003

00:46:20,720 --> 00:46:17,190

like you're fine pilsner beer which you

1004

00:46:24,049 --> 00:46:20,730

keep in a cave for 15 days so it

1005

00:46:25,940 --> 00:46:24,059

ferments slowly and has great flavor we

1006

00:46:29,470 --> 00:46:25,950

ferment this stuff in like one to three

1007

00:46:33,319 --> 00:46:29,480

days and it's nasty so as we say it

1008

00:46:36,589 --> 00:46:33,329

alcohol can be a gas we say drink the

1009

00:46:38,089 --> 00:46:36,599

best and then drive the rest so you know

1010

00:46:41,029 --> 00:46:38,099

we don't recommend using this for a

1011

00:46:42,230 --> 00:46:41,039

beverage even though it's illegal which

1012

00:46:43,819 --> 00:46:42,240

wouldn't usually stop me from

1013

00:46:45,380 --> 00:46:43,829

recommending it but in this case it

1014

00:46:47,930 --> 00:46:45,390

tastes horrible

1015

00:46:50,269 --> 00:46:47,940

and that's often the Tres byproducts

1016

00:46:52,160 --> 00:46:50,279

from the east poop you know the by

1017

00:46:54,650 --> 00:46:52,170

controlling a lot of conditions and

1018

00:46:57,079 --> 00:46:54,660

taking a longer time to ferment you can

1019

00:46:59,829 --> 00:46:57,089

make perfectly good sipping whiskey but

1020

00:47:03,920 --> 00:46:59,839

you know we're not trying to do that so

1021

00:47:06,140 --> 00:47:03,930

alcohol is is the very same stuff it's

1022

00:47:10,430 --> 00:47:06,150

just the byproducts that give flavor to

1023

00:47:12,620 --> 00:47:10,440

the different kinds of liquor so when it

1024

00:47:15,380 --> 00:47:12,630

comes to making alcohol it's pretty

1025

00:47:19,279 --> 00:47:15,390

straightforward we take the raw material

1026
00:47:21,620 --> 00:47:19,289
let's say it's sugar cane or sorghum we

1027
00:47:24,589 --> 00:47:21,630
squeeze it to get the sugary juice out

1028
00:47:26,569 --> 00:47:24,599
and then we usually heat it up to

1029
00:47:29,779 --> 00:47:26,579
sterilize it because we don't want to

1030
00:47:33,950 --> 00:47:29,789
lose our alcohol to other organisms and

1031
00:47:36,049 --> 00:47:33,960
then we feed it to east the same yeast

1032
00:47:39,170 --> 00:47:36,059
that make wine or beer actually or even

1033
00:47:40,910 --> 00:47:39,180
bread that's the same east they eat the

1034
00:47:42,180 --> 00:47:40,920
sugar as I said earlier and they poop

1035
00:47:45,570 --> 00:47:42,190
out the alcohol

1036
00:47:49,320 --> 00:47:45,580
breathe out co2 and then we distill it

1037
00:47:51,930 --> 00:47:49,330
into fuel now I repeated that because I

1038
00:47:55,850 --> 00:47:51,940

want to go back now to what makes the

1039

00:47:58,860 --> 00:47:55,860

sugar or starch that we ferment so

1040

00:48:02,450 --> 00:47:58,870

alcohol or I should say carbohydrates

1041

00:48:06,450 --> 00:48:02,460

are made from carbo carbon dioxide

1042

00:48:10,230 --> 00:48:06,460

hydrate which is water so carbohydrates

1043

00:48:13,590 --> 00:48:10,240

plants produce from carbon dioxide water

1044

00:48:16,110 --> 00:48:13,600

and sunlight sunlight is the power that

1045

00:48:21,990 --> 00:48:16,120

glues together the carbon dioxide and

1046

00:48:24,150 --> 00:48:22,000

water so the the resulting sugars are

1047

00:48:28,470 --> 00:48:24,160

what we ferment and what we end up with

1048

00:48:31,290 --> 00:48:28,480

is liquid solar energy as a fuel now how

1049

00:48:34,320 --> 00:48:31,300

does that work when you burn the alcohol

1050

00:48:36,810 --> 00:48:34,330

in your car and you explode it to drive

1051

00:48:39,270 --> 00:48:36,820

yourself down the road what goes out the

1052

00:48:44,130 --> 00:48:39,280

exhaust pipe is exactly what went in

1053

00:48:46,650 --> 00:48:44,140

carbon dioxide and water what drives

1054

00:48:48,780 --> 00:48:46,660

your car down the road is the exploding

1055

00:48:51,780 --> 00:48:48,790

solar energy that's contained in the

1056

00:48:54,150 --> 00:48:51,790

fuel so you are literally driving on the

1057

00:48:56,730 --> 00:48:54,160

Sun when you burn alcohol in your car

1058

00:48:59,280 --> 00:48:56,740

and the carbon dioxide and water that

1059

00:49:01,710 --> 00:48:59,290

you send out the exhaust pipe is exactly

1060

00:49:04,080 --> 00:49:01,720

the amount of carbon dioxide and water

1061

00:49:07,920 --> 00:49:04,090

you need to make next year's alcohol

1062

00:49:10,290 --> 00:49:07,930

crop so you have a cycle going there

1063

00:49:12,420 --> 00:49:10,300

where you're not putting excess carbon

1064

00:49:15,750 --> 00:49:12,430

dioxide in the atmosphere you are

1065

00:49:18,480 --> 00:49:15,760

recycling it over and over again so if

1066

00:49:20,970 --> 00:49:18,490

you want to stop climate change you got

1067

00:49:23,100 --> 00:49:20,980

to stop burning fossil fuels it doesn't

1068

00:49:26,340 --> 00:49:23,110

matter if we have a thousand years with

1069

00:49:28,680 --> 00:49:26,350

a natural gas we'd be dead long before

1070

00:49:31,650 --> 00:49:28,690

that thousand years if we keep burning

1071

00:49:33,360 --> 00:49:31,660

that stuff so we have to switch to

1072

00:49:35,880 --> 00:49:33,370

something that doesn't add to the

1073

00:49:38,220 --> 00:49:35,890

atmosphere and alcohol is one of the few

1074

00:49:41,910 --> 00:49:38,230

things that does that now you know I

1075

00:49:44,220 --> 00:49:41,920

wrote this book alcohol can be a gas to

1076

00:49:47,760 --> 00:49:44,230

give activists and farmers and

1077

00:49:49,530 --> 00:49:47,770

entrepreneurs the tool the toolkit to be

1078

00:49:52,080 --> 00:49:49,540

able to build their own equipment and

1079

00:49:55,010 --> 00:49:52,090

start their own local cooperatives or

1080

00:49:57,410 --> 00:49:55,020

businesses to be able to

1081

00:49:59,870 --> 00:49:57,420

uh you know get give people the choice

1082

00:50:03,890 --> 00:49:59,880

and that's what it's all about is choice

1083

00:50:06,320 --> 00:50:03,900

to not use gasoline and I got to tell

1084

00:50:09,500 --> 00:50:06,330

you man the first time you go to an

1085

00:50:12,470 --> 00:50:09,510

alcohol station and are 2,500 in the

1086

00:50:14,990 --> 00:50:12,480

United States and you fill your car up

1087

00:50:17,390 --> 00:50:15,000

with alcohol and especially if you do it

1088

00:50:19,820 --> 00:50:17,400

at home when you fill up your out car

1089

00:50:22,280 --> 00:50:19,830

with alcohol you not only screw the oil

1090

00:50:24,590 --> 00:50:22,290

companies but you also screw the IRS

1091

00:50:26,750 --> 00:50:24,600

because there are various states have

1092

00:50:29,150 --> 00:50:26,760

various tax credits and stuff for using

1093

00:50:31,970 --> 00:50:29,160

alcohol and you know there isn't a

1094

00:50:34,040 --> 00:50:31,980

better day standing up than being able

1095

00:50:36,500 --> 00:50:34,050

to screw the IRS a.m. oil companies I

1096

00:50:39,800 --> 00:50:36,510

agree two birds with one stone but who

1097

00:50:42,440 --> 00:50:39,810

knew it was so simple and I guess to

1098

00:50:43,940 --> 00:50:42,450

give people one example of how they

1099

00:50:47,150 --> 00:50:43,950

could use this information you have a

1100

00:50:49,550 --> 00:50:47,160

pretty interesting story about how you

1101
00:50:51,650 --> 00:50:49,560
went use this information and partnered

1102
00:50:54,890 --> 00:50:51,660
with a local donut shop near you to make

1103
00:50:56,870 --> 00:50:54,900
alcohol right oh yeah well she waste

1104
00:50:59,180 --> 00:50:56,880
products are something we promote

1105
00:51:00,920 --> 00:50:59,190
heavily in our in the book the alcohol

1106
00:51:01,700 --> 00:51:00,930
can be a gas book we even talk about it

1107
00:51:05,420 --> 00:51:01,710
on our website

1108
00:51:07,250 --> 00:51:05,430
with the same name but when I lived in

1109
00:51:09,710 --> 00:51:07,260
San Francisco when I first started

1110
00:51:12,440 --> 00:51:09,720
making alcohol not exactly a place where

1111
00:51:15,650 --> 00:51:12,450
you can find a lot of crops you know so

1112
00:51:17,120 --> 00:51:15,660
uh but I figured Donuts

1113
00:51:18,980 --> 00:51:17,130

well donuts what are they made of

1114

00:51:21,550 --> 00:51:18,990

they're made of starch and white flour

1115

00:51:25,790 --> 00:51:21,560

and they're made of sugar lots of sugar

1116

00:51:28,010 --> 00:51:25,800

so I went to a donut shop and you know

1117

00:51:30,080 --> 00:51:28,020

here I was nineteen not exactly quite

1118

00:51:32,150 --> 00:51:30,090

confident you know that I could do this

1119

00:51:35,600 --> 00:51:32,160

and I went there with my pickup truck

1120

00:51:38,420 --> 00:51:35,610

and some drums and I said well maybe you

1121

00:51:40,220 --> 00:51:38,430

guys would be okay with me like taking

1122

00:51:41,690 --> 00:51:40,230

your waste Donuts away you know I could

1123

00:51:45,110 --> 00:51:41,700

leave these drums here and you could

1124

00:51:48,110 --> 00:51:45,120

fill them up and the guy says done you

1125

00:51:50,780 --> 00:51:48,120

know cost us a lot to get rid of all the

1126
00:51:51,950 --> 00:51:50,790
waste donuts so so I leave the drums

1127
00:51:53,600 --> 00:51:51,960
that are figuring they'll call me in a

1128
00:51:55,880 --> 00:51:53,610
week or two you know and I'll pick up

1129
00:51:59,410 --> 00:51:55,890
the donuts and I'll make alcohol in this

1130
00:52:01,610 --> 00:51:59,420
little warehouse that I had rented so

1131
00:52:05,499 --> 00:52:01,620
the next morning at 6:00 in the morning

1132
00:52:07,870 --> 00:52:05,509
I get a call and say they're full

1133
00:52:10,299 --> 00:52:07,880
so on down to the donut place I take

1134
00:52:11,739 --> 00:52:10,309
them away you know spend like several

1135
00:52:15,429 --> 00:52:11,749
hours that day figuring out how to make

1136
00:52:18,009 --> 00:52:15,439
alcohol from them go home exhausted go

1137
00:52:19,749 --> 00:52:18,019
to sleep and a six o'clock the next

1138
00:52:23,829 --> 00:52:19,759

morning they call up and say they're

1139

00:52:26,139 --> 00:52:23,839

full oh no sigh right down there well

1140

00:52:28,419 --> 00:52:26,149

you got to understand there's one other

1141

00:52:31,659 --> 00:52:28,429

thing that that's in Donuts and that's

1142

00:52:33,879 --> 00:52:31,669

fat right because they're deep-fried so

1143

00:52:37,059 --> 00:52:33,889

what I discovered that first day making

1144

00:52:40,059 --> 00:52:37,069

the alcohol is that all the donut

1145

00:52:42,759 --> 00:52:40,069

liquefied when I added my enzymes and my

1146

00:52:45,939 --> 00:52:42,769

various potions and it dissolved but the

1147

00:52:47,199 --> 00:52:45,949

fat floated on top was a foot thick you

1148

00:52:50,769 --> 00:52:47,209

know on top my tank

1149

00:52:52,329 --> 00:52:50,779

so my fermentation tank so I had to

1150

00:52:55,029 --> 00:52:52,339

figure out what to do with it so I

1151
00:52:56,919 --> 00:52:55,039
looked at my compost pile and said okay

1152
00:52:59,469 --> 00:52:56,929
that's where it goes and I had a nice

1153
00:53:01,449 --> 00:52:59,479
big compost pile going so I sprayed all

1154
00:53:04,149 --> 00:53:01,459
the grease over the compost pile and

1155
00:53:07,239 --> 00:53:04,159
mixed it in and of course compost pile

1156
00:53:09,819 --> 00:53:07,249
in love I mean it just started really

1157
00:53:11,979 --> 00:53:09,829
getting hot really really going fast was

1158
00:53:14,109 --> 00:53:11,989
great food for the microbes so the

1159
00:53:15,819 --> 00:53:14,119
second day I go there and I get all this

1160
00:53:17,169 --> 00:53:15,829
stuff and I have a whole bunch of fat

1161
00:53:20,049 --> 00:53:17,179
leftover and I put it in the compost

1162
00:53:23,859 --> 00:53:20,059
pile but I'm thinking maybe I need a

1163
00:53:26,469 --> 00:53:23,869

bigger compost pile the third day I get

1164

00:53:28,299 --> 00:53:26,479

there and I have all this fat and the

1165

00:53:31,209 --> 00:53:28,309

compost piles looking back up at me and

1166

00:53:33,939 --> 00:53:31,219

it says no you don't you don't put that

1167

00:53:36,219 --> 00:53:33,949

stuff on me I go what am I going to do

1168

00:53:37,689 --> 00:53:36,229

with all this fat you know and thought

1169

00:53:41,489 --> 00:53:37,699

about it and thought about it and you

1170

00:53:43,449 --> 00:53:41,499

know what I do in life is show people

1171

00:53:45,729 --> 00:53:43,459

permaculture which is permanent

1172

00:53:48,879 --> 00:53:45,739

agriculture or permaculture part of our

1173

00:53:52,929 --> 00:53:48,889

concept is you look for surpluses that

1174

00:53:55,419 --> 00:53:52,939

are not being used and find a use for

1175

00:53:57,459 --> 00:53:55,429

them right so I look at the surplus fat

1176
00:54:01,689 --> 00:53:57,469
and I go gosh what am I going to do with

1177
00:54:04,359 --> 00:54:01,699
this let's see fat fat fat 180,000 BTUs

1178
00:54:06,669 --> 00:54:04,369
per countenance a lot of energy then I

1179
00:54:09,999 --> 00:54:06,679
look at my still burning wood for the

1180
00:54:13,839 --> 00:54:10,009
heat I say oh I got it now so I put a

1181
00:54:16,700 --> 00:54:13,849
55-gallon drum next to the still and I

1182
00:54:19,339 --> 00:54:16,710
plumbed a tube down into the fire

1183
00:54:22,370 --> 00:54:19,349
and I threw all the fat in the drum and

1184
00:54:24,890 --> 00:54:22,380
I dripped it onto the firewood and

1185
00:54:27,829 --> 00:54:24,900
treated the firewood like a wick in the

1186
00:54:31,339 --> 00:54:27,839
bottom of my distillery and I heated my

1187
00:54:33,079 --> 00:54:31,349
whole process with the fat that came off

1188
00:54:35,180 --> 00:54:33,089

the done it so here was a feedstock for

1189

00:54:37,970 --> 00:54:35,190

making alcohol that came with its own

1190

00:54:41,120 --> 00:54:37,980

energy supply to distill itself so I

1191

00:54:42,620 --> 00:54:41,130

made alcohol for 10 cents a gallon from

1192

00:54:45,470 --> 00:54:42,630

Donuts and I could do the same thing

1193

00:54:46,730 --> 00:54:45,480

today jeez yeah that's an awesome story

1194

00:54:49,339 --> 00:54:46,740

and there's probably endless

1195

00:54:51,680 --> 00:54:49,349

possibilities similar to that story that

1196

00:54:54,799 --> 00:54:51,690

people could start you doing to get

1197

00:54:56,359 --> 00:54:54,809

creative and doing themselves right well

1198

00:54:58,010 --> 00:54:56,369

a lot of those stories are in my book

1199

00:55:00,740 --> 00:54:58,020

alcohol can be a guess and they're not

1200

00:55:03,680 --> 00:55:00,750

all my stories because I taught over

1201
00:55:06,049 --> 00:55:03,690
8,000 students how to make alcohol over

1202
00:55:08,000 --> 00:55:06,059
a period of years and of course they'd

1203
00:55:10,849 --> 00:55:08,010
all right me with their successes so a

1204
00:55:13,099 --> 00:55:10,859
lot of the side bars next to the text

1205
00:55:15,769 --> 00:55:13,109
the little stories there are stories of

1206
00:55:17,930 --> 00:55:15,779
me me and my students doing all these

1207
00:55:20,930 --> 00:55:17,940
creative things in our communities to

1208
00:55:22,819 --> 00:55:20,940
make alcohol that's awesome so let's

1209
00:55:25,160 --> 00:55:22,829
let's talk a little more about using

1210
00:55:27,410 --> 00:55:25,170
alcohol as a fuel for our cars there's a

1211
00:55:29,510 --> 00:55:27,420
lot of myths out there perpetuated by

1212
00:55:31,940 --> 00:55:29,520
the big oil industry that have everyone

1213
00:55:33,769 --> 00:55:31,950

confused on the issue give us the facts

1214

00:55:35,329 --> 00:55:33,779

on cars today could we just walk out and

1215

00:55:40,099 --> 00:55:35,339

pour alcohol in our tanks without

1216

00:55:44,150 --> 00:55:40,109

damaging the car the answer is partially

1217

00:55:48,620 --> 00:55:44,160

yes and you got to remember that cars

1218

00:55:53,480 --> 00:55:48,630

first ran on alcohol so gasoline is the

1219

00:55:55,549 --> 00:55:53,490

after law right and so from every basic

1220

00:55:58,549 --> 00:55:55,559

point of view alcohol works great in a

1221

00:56:01,779 --> 00:55:58,559

car but you know car materials have

1222

00:56:07,970 --> 00:56:01,789

changed you know somewhat since the

1223

00:56:10,640 --> 00:56:07,980

early part of the the century so so

1224

00:56:13,640 --> 00:56:10,650

basically what it comes down to is your

1225

00:56:16,160 --> 00:56:13,650

car is now run by a computer instead of

1226
00:56:17,630 --> 00:56:16,170
a carburetor for those of you who don't

1227
00:56:22,519 --> 00:56:17,640
know what I'm talking about

1228
00:56:25,220 --> 00:56:22,529
before 1980 most cars had an air fuel

1229
00:56:27,769 --> 00:56:25,230
mixing device called a carburetor so air

1230
00:56:29,599 --> 00:56:27,779
rushed through it fuel spray it into it

1231
00:56:30,200 --> 00:56:29,609
basically and it mixed on its way to the

1232
00:56:33,800 --> 00:56:30,210
engine

1233
00:56:36,230 --> 00:56:33,810
now today we have fuel injection which

1234
00:56:40,160 --> 00:56:36,240
puts a squirt of fuel in front of every

1235
00:56:42,170 --> 00:56:40,170
cylinder and a very specific timing and

1236
00:56:43,790 --> 00:56:42,180
it's all controlled by a computer and

1237
00:56:46,760 --> 00:56:43,800
the reason why is to get things perfect

1238
00:56:51,710 --> 00:56:46,770

so it has low emissions and it's a great

1239

00:56:54,170 --> 00:56:51,720

system but what we do is look at that

1240

00:56:56,360 --> 00:56:54,180

computer and say how smart is it how

1241

00:56:59,270 --> 00:56:56,370

much can it adjust the air fuel mixture

1242

00:57:03,650 --> 00:56:59,280

well it turns out that virtually every

1243

00:57:08,540 --> 00:57:03,660

car can run 50 percent alcohol without a

1244

00:57:09,800 --> 00:57:08,550

single change to the engine Wow so I

1245

00:57:13,070 --> 00:57:09,810

want to I just want to make that clear

1246

00:57:17,510 --> 00:57:13,080

you can get rid of half of your oil

1247

00:57:21,170 --> 00:57:17,520

swill with alcohol without changing

1248

00:57:23,750 --> 00:57:21,180

anything in your engine so now why is

1249

00:57:27,590 --> 00:57:23,760

that significant if you look at where we

1250

00:57:29,420 --> 00:57:27,600

get oil now it is 30 percent only 30

1251
00:57:32,720 --> 00:57:29,430
percent of our oil comes from the Middle

1252
00:57:35,900 --> 00:57:32,730
East so that means if we just switch to

1253
00:57:38,180 --> 00:57:35,910
30 percent alcohol we wouldn't have to

1254
00:57:41,000 --> 00:57:38,190
change anything about all the cars in

1255
00:57:43,580 --> 00:57:41,010
the United States and we would eliminate

1256
00:57:48,140 --> 00:57:43,590
the need for Mideast oil and therefore

1257
00:57:50,480 --> 00:57:48,150
having troops there bases there any of

1258
00:57:53,630 --> 00:57:50,490
that stuff which is hundreds of billions

1259
00:57:56,710 --> 00:57:53,640
of dollars a year out of our tax dollars

1260
00:58:00,140 --> 00:57:56,720
so you could leave the middle-east alone

1261
00:58:02,990 --> 00:58:00,150
right and would have all the fuel we

1262
00:58:05,750 --> 00:58:03,000
need and never worry about a cut off

1263
00:58:09,350 --> 00:58:05,760

from those guys and not participate in

1264

00:58:11,660 --> 00:58:09,360

their darn religious wars you know let

1265

00:58:14,180 --> 00:58:11,670

them settle it out themselves oh man it

1266

00:58:16,430 --> 00:58:14,190

would work out so great for almost

1267

00:58:18,500 --> 00:58:16,440

everyone just except for the few people

1268

00:58:19,280 --> 00:58:18,510

who hold the reins to actually make the

1269

00:58:22,280 --> 00:58:19,290

change happen

1270

00:58:24,710 --> 00:58:22,290

well military contractors would cry

1271

00:58:27,050 --> 00:58:24,720

bloody murder because they're making you

1272

00:58:29,320 --> 00:58:27,060

know gazillions of dollars off the so

1273

00:58:31,370 --> 00:58:29,330

called war and terrorism the Middle East

1274

00:58:33,620 --> 00:58:31,380

man this is such great information

1275

00:58:35,540 --> 00:58:33,630

because I've seen Ethan all at the pump

1276

00:58:37,070 --> 00:58:35,550

I think he 15 and I've just been afraid

1277

00:58:41,180 --> 00:58:37,080

to use it I thought I'd need something

1278

00:58:43,190 --> 00:58:41,190

special and I just got spooked out well

1279

00:58:43,940 --> 00:58:43,200

you're spooked out because in the

1280

00:58:46,250 --> 00:58:43,950

background

1281

00:58:49,430 --> 00:58:46,260

in the back of your unconscious you've

1282

00:58:51,970 --> 00:58:49,440

heard thousands of media hits about how

1283

00:58:54,800 --> 00:58:51,980

alcohol is bad for your car it's it's

1284

00:58:56,810 --> 00:58:54,810

it's invisible you can't point to why

1285

00:58:59,960 --> 00:58:56,820

you feel that way you can't point to an

1286

00:59:02,270 --> 00:58:59,970

article or whatever it's a saturation of

1287

00:59:05,440 --> 00:59:02,280

the media every day there's a negative

1288

00:59:07,640 --> 00:59:05,450

alcohol story out there they're all

1289

00:59:11,060 --> 00:59:07,650

fabricated by the American Petroleum

1290

00:59:13,370 --> 00:59:11,070

Institute so you know if it's like The

1291

00:59:15,890 --> 00:59:13,380

Wizard of Oz don't look at the man

1292

00:59:19,010 --> 00:59:15,900

behind the curtain if you look there

1293

00:59:21,680 --> 00:59:19,020

you'd see alcohol right and alcohol

1294

00:59:23,599 --> 00:59:21,690

would be dangerous because it would

1295

00:59:24,530 --> 00:59:23,609

change the balance of power in the

1296

00:59:28,970 --> 00:59:24,540

United States

1297

00:59:34,970 --> 00:59:28,980

so basically alcohol is not harmful to

1298

00:59:37,790 --> 00:59:34,980

any material in a car since 1983 now my

1299

00:59:41,060 --> 00:59:37,800

buddy Tom Harvey and I we went into the

1300

00:59:43,790 --> 00:59:41,070

Ford Motor plant in the Rouge plant in

1301
00:59:47,089 --> 00:59:43,800
Detroit and we went through that that

1302
00:59:51,140 --> 00:59:47,099
factory with the permission to film the

1303
00:59:54,859 --> 00:59:51,150
assembly line you know assembly so to

1304
00:59:57,620 --> 00:59:54,869
speak of the fuel system so we were

1305
01:00:00,920 --> 00:59:57,630
there to see what different parts are

1306
01:00:02,720 --> 01:00:00,930
used for alcohol tolerant trucks the

1307
01:00:08,150 --> 01:00:02,730
Flex fuel trucks that can run on both

1308
01:00:09,680 --> 01:00:08,160
alcohol or gas or gasoline alone so we

1309
01:00:11,450 --> 01:00:09,690
go down the assembly line started

1310
01:00:13,460 --> 01:00:11,460
starting at the gas tape which oil

1311
01:00:15,230 --> 01:00:13,470
companies say Oh alcohol will eat the

1312
01:00:17,630 --> 01:00:15,240
plastic of your gas tank and they'll be

1313
01:00:20,500 --> 01:00:17,640

holes in it you know and we talked to

1314

01:00:23,720 --> 01:00:20,510

the forklift driver who's loading these

1315

01:00:27,230 --> 01:00:23,730

these gas tanks right onto the chassis

1316

01:00:29,180 --> 01:00:27,240

of the the trucks and we asked them what

1317

01:00:31,819 --> 01:00:29,190

which one is the special alcohol

1318

01:00:35,329 --> 01:00:31,829

resistant gas tank and he looks at us

1319

01:00:38,089 --> 01:00:35,339

and says that stack is for the 150s that

1320

01:00:40,250 --> 01:00:38,099

stack is for the 250s and that's for the

1321

01:00:43,280 --> 01:00:40,260

350s and we go well where's the alcohol

1322

01:00:46,400 --> 01:00:43,290

stack he goes they aren't in there

1323

01:00:48,109 --> 01:00:46,410

there's no such thing okay and and by

1324

01:00:51,050 --> 01:00:48,119

the way all this information we gave to

1325

01:00:53,000 --> 01:00:51,060

the producers of the movie pump and all

1326

01:00:55,040 --> 01:00:53,010

this has been repeated in the movie so

1327

01:00:57,290 --> 01:00:55,050

it's going to go out to more people but

1328

01:00:59,030 --> 01:00:57,300

at any rate a

1329

01:01:00,920 --> 01:00:59,040

we went on to the next thing we went on

1330

01:01:03,500 --> 01:01:00,930

to the fuel pump that they drop into the

1331

01:01:06,950 --> 01:01:03,510

tank we said well there's three bins

1332

01:01:08,960 --> 01:01:06,960

here it says 150 250 350 where is the

1333

01:01:11,270 --> 01:01:08,970

bin for the flex fuel fuel pumps because

1334

01:01:15,170 --> 01:01:11,280

the oil companies say it'll destroy your

1335

01:01:17,960 --> 01:01:15,180

fuel pump Ike says uh these are the

1336

01:01:19,280 --> 01:01:17,970

three bins this is all we put in you

1337

01:01:21,470 --> 01:01:19,290

know and we went through the whole fuel

1338

01:01:23,750 --> 01:01:21,480

system this way we get to the the fuel

1339

01:01:25,130 --> 01:01:23,760

lines that go on the frame up to you

1340

01:01:27,500 --> 01:01:25,140

know up to the fuel injectors in the

1341

01:01:29,300 --> 01:01:27,510

engine and you know I said well the oil

1342

01:01:31,460 --> 01:01:29,310

companies say that those fuel lines have

1343

01:01:35,240 --> 01:01:31,470

to be stainless steel or alcohol will

1344

01:01:37,010 --> 01:01:35,250

eat them up and the guy says uh this is

1345

01:01:38,840 --> 01:01:37,020

mild steel and this is all the fuel

1346

01:01:41,840 --> 01:01:38,850

lines we use including the flex fuel

1347

01:01:44,450 --> 01:01:41,850

vehicles so we get to the end and we

1348

01:01:47,150 --> 01:01:44,460

asked the shift supervisor who was you

1349

01:01:50,060 --> 01:01:47,160

know escorting us to the plant we said

1350

01:01:52,160 --> 01:01:50,070

so what is the difference between a

1351

01:01:54,380 --> 01:01:52,170

truck that can run on both alcohol and

1352

01:01:58,310 --> 01:01:54,390

gas or one that can only run and gas he

1353

01:02:00,800 --> 01:01:58,320

goes what software we just have a little

1354

01:02:04,100 --> 01:02:00,810

different software in the chip that

1355

01:02:07,220 --> 01:02:04,110

gives us a wider range of air fuel

1356

01:02:09,680 --> 01:02:07,230

mixtures then the normal chip does and

1357

01:02:12,470 --> 01:02:09,690

it costs us about 20 30 bucks and

1358

01:02:14,210 --> 01:02:12,480

development costs per chip to do that so

1359

01:02:17,750 --> 01:02:14,220

the difference between a vehicle that

1360

01:02:21,200 --> 01:02:17,760

will run on 100% alcohol and gasoline or

1361

01:02:23,660 --> 01:02:21,210

just gasoline is just a few dollars on

1362

01:02:27,200 --> 01:02:23,670

the assembly line so it was really funny

1363

01:02:28,490 --> 01:02:27,210

though Tom I pack up and we say thank

1364

01:02:30,470 --> 01:02:28,500

you thank you and we get out of there

1365

01:02:32,480 --> 01:02:30,480

because we suspect if somebody would

1366

01:02:34,970 --> 01:02:32,490

figure out that maybe we shouldn't be

1367

01:02:37,190 --> 01:02:34,980

filming this you know and we're driving

1368

01:02:38,750 --> 01:02:37,200

down the road as we leave and you know

1369

01:02:42,770 --> 01:02:38,760

they call Tom you know this shift

1370

01:02:44,960 --> 01:02:42,780

supervisor says ah gee do you think you

1371

01:02:46,880 --> 01:02:44,970

could bring that tape back I'm not sure

1372

01:02:50,270 --> 01:02:46,890

I was supposed to say all those things

1373

01:02:52,250 --> 01:02:50,280

Tom said oh no of course not you know

1374

01:02:54,470 --> 01:02:52,260

we're not bringing you back and you

1375

01:02:58,820 --> 01:02:54,480

don't have to worry you didn't say

1376

01:03:00,560 --> 01:02:58,830

anything too damaging oh wow

1377

01:03:02,480 --> 01:03:00,570

so anyway yeah we got that tape we want

1378

01:03:04,880 --> 01:03:02,490

to edit that one together and put that

1379

01:03:06,950 --> 01:03:04,890

out about you know all the stuff they

1380

01:03:10,089 --> 01:03:06,960

say about how your car is destroyed by

1381

01:03:12,489 --> 01:03:10,099

alcohol is a complete and total lie

1382

01:03:14,469 --> 01:03:12,499

and and it just doesn't happen now

1383

01:03:17,430 --> 01:03:14,479

what's the real truth propaganda the way

1384

01:03:21,759 --> 01:03:17,440

propaganda works is not only is it

1385

01:03:27,130 --> 01:03:21,769

untrue but usually the opposite is true

1386

01:03:30,849 --> 01:03:27,140

and so we end up with a situation where

1387

01:03:33,579 --> 01:03:30,859

you've got mechanics and and pressing

1388

01:03:34,989 --> 01:03:33,589

alcohol will wreck your car but the

1389

01:03:37,269 --> 01:03:34,999

opposite is true

1390

01:03:40,960 --> 01:03:37,279

alcohol burns clean as we mentioned

1391

01:03:42,759 --> 01:03:40,970

earlier it's actually so pollution free

1392

01:03:44,920 --> 01:03:42,769

it doesn't even show up on most

1393

01:03:47,049 --> 01:03:44,930

pollution test equipment and that means

1394

01:03:49,420 --> 01:03:47,059

there's no carbon in your engine your

1395

01:03:52,329 --> 01:03:49,430

oil never turns black

1396

01:03:55,210 --> 01:03:52,339

it burns cooler than gasoline these

1397

01:03:58,259 --> 01:03:55,220

things all add up to tripling engine

1398

01:04:01,239 --> 01:03:58,269

life so not only is it not true that

1399

01:04:04,210 --> 01:04:01,249

alcohol wrecks your car the real truth

1400

01:04:05,769 --> 01:04:04,220

is it triples engine life gosh do you

1401

01:04:09,670 --> 01:04:05,779

think there might be someone who's upset

1402

01:04:12,089 --> 01:04:09,680

about that right so you know the the

1403

01:04:15,579 --> 01:04:12,099

propaganda runs thick around alcohol

1404

01:04:17,769 --> 01:04:15,589

yeah and the in the consumer culture and

1405

01:04:20,109 --> 01:04:17,779

capitalism planned obsolescence is

1406

01:04:21,819 --> 01:04:20,119

definitely a pillar of how a lot of

1407

01:04:23,529 --> 01:04:21,829

these big companies work and that is

1408

01:04:25,479 --> 01:04:23,539

making sure that products are going to

1409

01:04:27,099 --> 01:04:25,489

break down you know a lot sooner than

1410

01:04:29,349 --> 01:04:27,109

they need to is that you have to go out

1411

01:04:31,089 --> 01:04:29,359

and get that new product and this falls

1412

01:04:32,910 --> 01:04:31,099

right in line with that they break down

1413

01:04:34,870 --> 01:04:32,920

one month after your warranty's expired

1414

01:04:37,150 --> 01:04:34,880

right of course

1415

01:04:39,130 --> 01:04:37,160

no actually you know in defense of the

1416

01:04:42,519 --> 01:04:39,140

car companies I have to say that planned

1417

01:04:44,859 --> 01:04:42,529

obsolescence which was a strategy in the

1418

01:04:46,959 --> 01:04:44,869

70s to make cars break down after two or

1419

01:04:50,469 --> 01:04:46,969

three years so you'd buy new one that's

1420

01:04:53,140 --> 01:04:50,479

pretty gone people people have caught on

1421

01:04:55,420 --> 01:04:53,150

to that one and now what do you see you

1422

01:04:58,299 --> 01:04:55,430

see people looking at consumer reports

1423

01:05:00,969 --> 01:04:58,309

to see how much you know repair you need

1424

01:05:02,469 --> 01:05:00,979

over the time you run the car so when I

1425

01:05:05,969 --> 01:05:02,479

look at American cars today especially

1426

01:05:08,559 --> 01:05:05,979

Ford uh you know we're looking at uh

1427

01:05:11,229 --> 01:05:08,569

we're looking at very very well

1428

01:05:15,999 --> 01:05:11,239

engineered cars now there's an exciting

1429

01:05:18,640 --> 01:05:16,009

development which is Cummins now Cummins

1430

01:05:21,849 --> 01:05:18,650

is generally credited with being a

1431

01:05:23,559 --> 01:05:21,859

diesel engine manufacturer but since

1432

01:05:27,359 --> 01:05:23,569

alcohol is a

1433

01:05:30,969 --> 01:05:27,369

105 octane compared to gasoline being 87

1434

01:05:33,910 --> 01:05:30,979

that means you can squeeze the alcohol

1435

01:05:37,359 --> 01:05:33,920

mixture much more before you fire it

1436

01:05:39,969 --> 01:05:37,369

then you can gasoline if you do it to

1437

01:05:42,549 --> 01:05:39,979

gasoline in a diesel type engine the

1438

01:05:45,039 --> 01:05:42,559

gasoline just explodes from being

1439

01:05:49,180 --> 01:05:45,049

squeezed too much because it has a such

1440

01:05:50,799 --> 01:05:49,190

a low octane rating so Cummins has gone

1441

01:05:54,759 --> 01:05:50,809

out they're taking their heavy-duty

1442

01:05:57,670 --> 01:05:54,769

diesel engines and develop an alcohol

1443

01:05:59,680 --> 01:05:57,680

only engine that makes use of that extra

1444

01:06:04,719 --> 01:05:59,690

strength engine and they're getting

1445

01:06:07,209 --> 01:06:04,729

better mileage more power and it's being

1446

01:06:12,009 --> 01:06:07,219

done at half the size of the normal

1447

01:06:16,569 --> 01:06:12,019

diesel engine so a 2.9 liter engine is

1448

01:06:19,870 --> 01:06:16,579

having the same horsepower more as a 6.2

1449

01:06:22,660 --> 01:06:19,880

liter diesel engine so the alcohol

1450

01:06:26,529 --> 01:06:22,670

engine is smaller lighter uses less

1451

01:06:30,489 --> 01:06:26,539

materials gets better mileage and more

1452

01:06:33,329 --> 01:06:30,499

power and virtually no pollution so G so

1453

01:06:35,739 --> 01:06:33,339

Cummins is making them right now for

1454

01:06:36,999 --> 01:06:35,749

delivery trucks and that kind of thing

1455

01:06:40,209 --> 01:06:37,009

they were about to start selling them

1456

01:06:42,279 --> 01:06:40,219

but they intend to extend the line

1457

01:06:43,989 --> 01:06:42,289

upwards and downwards to full size

1458

01:06:46,569 --> 01:06:43,999

diesel trucks which would then be

1459

01:06:49,029 --> 01:06:46,579

alcohol trucks and all the way down to

1460

01:06:51,400 --> 01:06:49,039

cars because you know Cummins is the

1461

01:06:54,339 --> 01:06:51,410

biggest diesel engine manufacturer in

1462

01:06:56,319 --> 01:06:54,349

the world and they have now taken the

1463

01:06:59,229 --> 01:06:56,329

suggestions from people like myself and

1464

01:07:01,120 --> 01:06:59,239

other engineers to make dedicated

1465

01:07:03,880 --> 01:07:01,130

alcohol engines and those engines will

1466

01:07:08,670 --> 01:07:03,890

last a million or two million miles

1467

01:07:11,739 --> 01:07:08,680

rather than a hundred thousand miles man

1468

01:07:13,239 --> 01:07:11,749

another thing that you're doing you

1469

01:07:15,459 --> 01:07:13,249

might have already done it as opening an

1470

01:07:16,689 --> 01:07:15,469

education facility in California is

1471

01:07:17,380 --> 01:07:16,699

that's still going on can you tell us

1472

01:07:19,269 --> 01:07:17,390

about that

1473

01:07:22,499 --> 01:07:19,279

oh yeah we bought a great piece of

1474

01:07:26,559 --> 01:07:22,509

property in near Santa Cruz our

1475

01:07:30,279 --> 01:07:26,569

distillery is almost done and we'll have

1476

01:07:34,150 --> 01:07:30,289

classes there in the future in how to

1477

01:07:36,729 --> 01:07:34,160

make alcohol fuel we'll also have we

1478

01:07:37,390 --> 01:07:36,739

have five acres of greenhouses so we'll

1479

01:07:39,670 --> 01:07:37,400

be able to

1480

01:07:42,610 --> 01:07:39,680

show different energy crops from around

1481

01:07:44,920 --> 01:07:42,620

the world like in arid areas that will

1482

01:07:47,020 --> 01:07:44,930

be mesquite and Buffalo gourd and

1483

01:07:50,200 --> 01:07:47,030

prickly pear cactus and the like and

1484

01:07:54,040 --> 01:07:50,210

then in marshy areas will show cattails

1485

01:07:57,340 --> 01:07:54,050

to alcohol you know so all this will be

1486

01:08:00,580 --> 01:07:57,350

going on at our bloom distillation site

1487

01:08:03,610 --> 01:08:00,590

in Watsonville and there will be tours

1488

01:08:06,640 --> 01:08:03,620

and there will be workshops and how to

1489

01:08:09,700 --> 01:08:06,650

make alcohol with sixty thousand gallon

1490

01:08:11,320 --> 01:08:09,710

per year sized equipment right there on

1491

01:08:13,240 --> 01:08:11,330

the campus and we'll have a lot of other

1492

01:08:15,850 --> 01:08:13,250

events too we have a big performance

1493

01:08:19,000 --> 01:08:15,860

space we built there and we'll be able

1494

01:08:24,220 --> 01:08:19,010

to bring in important lecturers and you

1495

01:08:28,420 --> 01:08:24,230

can find all about this at either one of

1496

01:08:30,490 --> 01:08:28,430

our two websites what is alcohol can be

1497

01:08:33,600 --> 01:08:30,500

a gas that's the name of the book and

1498

01:08:37,240 --> 01:08:33,610

the website alcohol can be a gas and

1499

01:08:39,190 --> 01:08:37,250

then we have a new website that asked it

1500

01:08:42,130 --> 01:08:39,200

with our distillery manufacturing

1501
01:08:44,860 --> 01:08:42,140
company where we're building stills for

1502
01:08:48,010 --> 01:08:44,870
around the world for everything from

1503
01:08:51,940 --> 01:08:48,020
coffee coffee berry pulp to bananas too

1504
01:08:54,460 --> 01:08:51,950
you know cactus agave from the tequila

1505
01:08:56,230 --> 01:08:54,470
areas in other words these places all

1506
01:08:58,210 --> 01:08:56,240
have waste that we're going to be

1507
01:09:01,960 --> 01:08:58,220
building distilleries to process and

1508
01:09:04,180 --> 01:09:01,970
that's bloom distillation so you know

1509
01:09:06,100 --> 01:09:04,190
they work because I put my name on it

1510
01:09:09,730 --> 01:09:06,110
you know exactly where it chased me if

1511
01:09:12,880 --> 01:09:09,740
it doesn't work so uh so you can find

1512
01:09:15,010 --> 01:09:12,890
that at bloom distillation calm very

1513
01:09:16,390 --> 01:09:15,020

cool and do you let me it's kind of a

1514

01:09:18,040 --> 01:09:16,400

weird question but I you know I am a

1515

01:09:19,900 --> 01:09:18,050

conspiracy guy do you ever worry about

1516

01:09:21,490 --> 01:09:19,910

your safety talking about this stuff it

1517

01:09:23,500 --> 01:09:21,500

can be pretty dangerous to mess with the

1518

01:09:25,060 --> 01:09:23,510

profits of these shady industries have

1519

01:09:27,460 --> 01:09:25,070

you seen anybody get hurt or had any

1520

01:09:30,850 --> 01:09:27,470

problems yourself you know I was in New

1521

01:09:33,130 --> 01:09:30,860

Zealand once and this big Maori guy in

1522

01:09:34,300 --> 01:09:33,140

the back of the the room you know tall I

1523

01:09:36,040 --> 01:09:34,310

was talking about I'll called New

1524

01:09:38,740 --> 01:09:36,050

Zealand and they have kind of a

1525

01:09:41,590 --> 01:09:38,750

Caribbean accent there so he gets up and

1526

01:09:45,550 --> 01:09:41,600

says I know get why you haven't been

1527

01:09:48,280 --> 01:09:45,560

killed yet and so I said to the you know

1528

01:09:50,530 --> 01:09:48,290

I said to the the crowd well if anybody

1529

01:09:53,289 --> 01:09:50,540

sees a red dot form on my

1530

01:09:55,650 --> 01:09:53,299

4head will you please let me know you

1531

01:09:58,300 --> 01:09:55,660

know but in reality you know Greg

1532

01:10:00,820 --> 01:09:58,310

because I have my book alcohol can be a

1533

01:10:02,740 --> 01:10:00,830

gas out there you know if they kill me

1534

01:10:06,100 --> 01:10:02,750

can you imagine what that would do to my

1535

01:10:07,720 --> 01:10:06,110

book sales right it validates it well in

1536

01:10:10,330 --> 01:10:07,730

other words you know suddenly many more

1537

01:10:11,440 --> 01:10:10,340

people would be reading about it but if

1538

01:10:12,970 --> 01:10:11,450

they were going to kill me they should

1539

01:10:15,040 --> 01:10:12,980

have done it before I wrote the book so

1540

01:10:17,980 --> 01:10:15,050

now I feel pretty protected you know

1541

01:10:20,620 --> 01:10:17,990

right well that's a good answer so man I

1542

01:10:22,870 --> 01:10:20,630

just had I had no idea how important

1543

01:10:25,270 --> 01:10:22,880

this stuff was or how easy it was before

1544

01:10:27,130 --> 01:10:25,280

hearing you I was just a total victim of

1545

01:10:28,540 --> 01:10:27,140

the manipulation in this area and I'm so

1546

01:10:31,000 --> 01:10:28,550

glad you came here to clarify the

1547

01:10:32,770 --> 01:10:31,010

subject two weeks ago it seems so

1548

01:10:34,540 --> 01:10:32,780

confusing now it seems so simple but

1549

01:10:36,220 --> 01:10:34,550

before we really called in would you

1550

01:10:38,020 --> 01:10:36,230

like to give people a little extra info

1551

01:10:39,640 --> 01:10:38,030

about anything you're doing the website

1552

01:10:40,680 --> 01:10:39,650

or maybe where they can catch this new

1553

01:10:44,710 --> 01:10:40,690

movie coming out

1554

01:10:47,350 --> 01:10:44,720

well the premiere is happening this

1555

01:10:49,420 --> 01:10:47,360

weekend in the evening Friday and

1556

01:10:53,650 --> 01:10:49,430

Saturday night so feel free to come to

1557

01:10:56,400 --> 01:10:53,660

that and that's in Santa Monica

1558

01:11:01,180 --> 01:10:56,410

at the Civic Center at the Longley

1559

01:11:03,100 --> 01:11:01,190

Royale theater and you know in Saturday

1560

01:11:06,670 --> 01:11:03,110

we're having a performance at 3 o'clock

1561

01:11:09,910 --> 01:11:06,680

at the alt car Expo which is also in

1562

01:11:12,700 --> 01:11:09,920

Santa Monica so you know we hope to see

1563

01:11:14,380 --> 01:11:12,710

you out there because if you think the

1564

01:11:16,530 --> 01:11:14,390

stuff that we're talking about is

1565

01:11:18,730 --> 01:11:16,540

exciting which you see us in real life

1566

01:11:19,270 --> 01:11:18,740

battling it out with the electric car

1567

01:11:21,490 --> 01:11:19,280

guys

1568

01:11:23,200 --> 01:11:21,500

we're also shooting over to Santa Fe for

1569

01:11:26,680 --> 01:11:23,210

those of you who over in that part of

1570

01:11:30,640 --> 01:11:26,690

the country Friday the 26th we're going

1571

01:11:32,650 --> 01:11:30,650

to be doing a premiere for the for the

1572

01:11:35,620 --> 01:11:32,660

same movie pump so you should go to

1573

01:11:37,570 --> 01:11:35,630

their website and we're also going to be

1574

01:11:40,390 --> 01:11:37,580

in Washington DC on the 10th of October

1575

01:11:42,490 --> 01:11:40,400

doing the same thing so we are out there

1576

01:11:44,950 --> 01:11:42,500

making a lot of noise about this movie

1577

01:11:48,010 --> 01:11:44,960

because it totally indict the oil

1578

01:11:50,170 --> 01:11:48,020

companies for conspiracy right on well

1579

01:11:51,580 --> 01:11:50,180

David this has been a real pleasure you

1580

01:11:53,140 --> 01:11:51,590

know they say knowledge is power you

1581

01:11:54,790 --> 01:11:53,150

just gave us the oil industry's

1582

01:11:56,590 --> 01:11:54,800

kryptonite and man so thanks again

1583

01:11:58,180 --> 01:11:56,600

thanks for all you're doing you're a

1584

01:11:59,350 --> 01:11:58,190

real champion of the people so take care

1585

01:12:04,030 --> 01:11:59,360

of yourself out there

1586

01:12:06,280 --> 01:12:04,040

we'll do our man have a good one YouTube

1587

01:12:09,130 --> 01:12:06,290

there we have it folks an interesting

1588

01:12:11,140 --> 01:12:09,140

examination into a huge sector of

1589

01:12:12,850 --> 01:12:11,150

manipulation and I hope we all escaped

1590

01:12:14,080 --> 01:12:12,860

with a clear understanding of how this

1591

01:12:15,760 --> 01:12:14,090

stuff really works

1592

01:12:18,190 --> 01:12:15,770

and I hope we're all starting to make

1593

01:12:20,200 --> 01:12:18,200

some strides towards denting the

1594

01:12:21,910 --> 01:12:20,210

Rockefeller and Bush family pocketbooks

1595

01:12:24,340 --> 01:12:21,920

and providing these dicks with less

1596

01:12:26,920 --> 01:12:24,350

capital in which to reinvest in more

1597

01:12:28,960 --> 01:12:26,930

manipulative media and maybe we've come

1598

01:12:30,670 --> 01:12:28,970

up with some new business ideas how cool

1599

01:12:32,470 --> 01:12:30,680

would that be start making your own

1600

01:12:33,700 --> 01:12:32,480

alcohol and educating your friends and

1601
01:12:35,950 --> 01:12:33,710
family and this could really be

1602
01:12:37,840 --> 01:12:35,960
something I'm all jazzed up about it and

1603
01:12:39,790 --> 01:12:37,850
if you like this show and you only heard

1604
01:12:41,980 --> 01:12:39,800
the free version you can get that second

1605
01:12:44,530 --> 01:12:41,990
hour at the higher side chats plus calm

1606
01:12:46,690 --> 01:12:44,540
it's only 5 bucks a month less than you

1607
01:12:48,880 --> 01:12:46,700
tip your bartender or pizza man and

1608
01:12:50,530 --> 01:12:48,890
thanks to the folks who are subscribing

1609
01:12:52,510 --> 01:12:50,540
to keep the show alive and keep me

1610
01:12:54,760 --> 01:12:52,520
employed working for you guys trying to

1611
01:12:56,980 --> 01:12:54,770
bring interesting empowering and honest

1612
01:12:59,560 --> 01:12:56,990
topics to the table it's going great so

1613
01:13:01,930 --> 01:12:59,570

far I couldn't be happier I hope you all

1614

01:13:03,850 --> 01:13:01,940

agree not really a whole lot to report

1615

01:13:06,070 --> 01:13:03,860

this week we got an awesome new cover

1616

01:13:07,570 --> 01:13:06,080

photo on Facebook and social media

1617

01:13:10,270 --> 01:13:07,580

websites that was done by one of the

1618

01:13:12,850 --> 01:13:10,280

listeners I'm very thankful for that if

1619

01:13:16,450 --> 01:13:12,860

any of the other listeners want to send

1620

01:13:18,670 --> 01:13:16,460

in some THC inspired art or marketing

1621

01:13:20,320 --> 01:13:18,680

images you know I can always use that

1622

01:13:21,850 --> 01:13:20,330

stuff but that's really about it you

1623

01:13:24,310 --> 01:13:21,860

guys are awesome here is an

1624

01:13:26,830 --> 01:13:24,320

appropriately titled song called drive

1625

01:13:28,870 --> 01:13:26,840

by one of the many talented THC

1626
01:13:31,650 --> 01:13:28,880
listeners out there who sent their music

1627
01:13:35,080 --> 01:13:31,660
into podcast music archive at gmail.com

1628
01:13:36,490 --> 01:13:35,090
his name is Dale Fortier and if you like

1629
01:13:38,380 --> 01:13:36,500
this song look up more of his stuff

1630
01:13:39,880 --> 01:13:38,390
there you go that's going to be it for

1631
01:13:42,070 --> 01:13:39,890
me this week doing my part with a

1632
01:13:43,900 --> 01:13:42,080
healthy dose of empowering information

1633
01:13:45,910 --> 01:13:43,910
on the little podcast that could and

1634
01:13:48,460 --> 01:13:45,920
it's your move manipulative

1635
01:13:49,690 --> 01:13:48,470
multinational oil conglomerates your

1636
01:13:52,270 --> 01:13:49,700
[h__\h] move

1637
01:13:55,480 --> 01:13:52,280
baby let's just dress

1638
01:14:00,250 --> 01:13:55,490

to forget about this place maybe let's

1639

01:14:10,060 --> 01:14:00,260

just try far from this town maybe let's

1640

01:14:14,650 --> 01:14:10,070

just try baby let's just try I take the

1641

01:14:19,480 --> 01:14:14,660

wheel still suck that road to any place

1642

01:14:30,700 --> 01:14:19,490

we feel far from this town baby let's

1643

01:14:30,710 --> 01:14:39,930

we should run into

1644

01:14:39,940 --> 01:14:50,160

drive a little faster

1645

01:15:02,120 --> 01:14:56,740

never turn back drive away far from this

1646

01:15:12,180 --> 01:15:08,970

let's just ride baby I come

1647

01:15:16,680 --> 01:15:12,190

we got a private guarantee everybody

1648

01:15:20,469 --> 01:15:16,690

stays far away from you and me baby

1649

01:15:20,479 --> 01:15:37,480

baby let's just wrap

1650

01:15:37,490 --> 01:15:51,479

you drop a little bad

1651

01:15:51,489 --> 01:15:56,299

counter rules cross

1652

01:15:56,309 --> 01:16:03,620

let's try

1653

01:16:13,200 --> 01:16:07,950

maybe let's just try to forget about

1654

01:16:18,960 --> 01:16:13,210

this place maybe let's just try far from

1655

01:16:22,790 --> 01:16:18,970

this town maybe let's just try baby