

JUNE 16, 2020 **LIVE**

10:00 PM ET | 08:00 PM MT | 07:00 PM PT

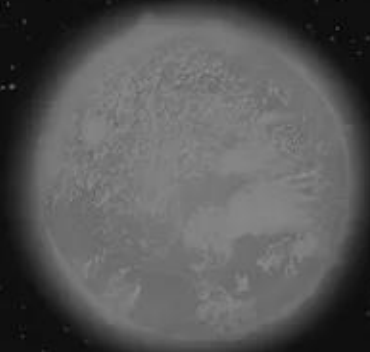
WALTER CRUTTENDEN



**F2B**

with Jimmy Church

Binary Research



#F2B [jimmychurchradio.com](http://jimmychurchradio.com)

1  
00:00:43,840 --> 00:01:58,660

you

2  
00:02:14,550 --> 00:02:06,550

[Music]

3  
00:02:15,830 --> 00:02:14,560

bespoke radio for the masses headline

4  
00:02:19,110 --> 00:02:15,840

edition july 8

5  
00:02:20,150 --> 00:02:19,120

1947 the army air forces has announced

6  
00:02:21,910 --> 00:02:20,160

that a flying disc

7  
00:02:23,510 --> 00:02:21,920

has been found and is now in the

8  
00:02:26,229 --> 00:02:23,520

possession of the army

9  
00:02:28,150 --> 00:02:26,239

if the game is rigged change the game

10  
00:02:31,350 --> 00:02:28,160

game changer

11  
00:02:33,350 --> 00:02:31,360

i occasionally think how quickly our

12  
00:02:36,390 --> 00:02:33,360

differences worldwide

13  
00:02:37,190 --> 00:02:36,400

would vanish if we were facing an alien

14

00:02:40,820 --> 00:02:37,200

threat

15

00:02:46,790 --> 00:02:43,589

[Applause]

16

00:02:47,509 --> 00:02:46,800

this is faded black with your host jimmy

17

00:02:49,990 --> 00:02:47,519

church

18

00:02:51,110 --> 00:02:50,000

on the game changer radio network and

19

00:02:53,990 --> 00:02:51,120

kgra

20

00:02:55,910 --> 00:02:54,000

the global radio alliance

21

00:03:05,030 --> 00:02:55,920

[Music]

22

00:03:07,030 --> 00:03:05,040

1985.

23

00:03:17,990 --> 00:03:07,040

you're listening to fade to black with

24

00:03:24,390 --> 00:03:18,000

jimmy church on the game changer network

25

00:03:24,400 --> 00:03:28,149

this spoke radio

26

00:03:37,270 --> 00:03:32,789

for the

27

00:03:39,110 --> 00:03:37,280

masses uh yeah man how you doing how you

28

00:03:48,869 --> 00:03:39,120

doing today's tuesday

29

00:03:56,869 --> 00:03:53,030

we're 168 days into the new year

30

00:03:57,830 --> 00:03:56,879

only 198 days left we are live from a

31

00:03:59,110 --> 00:03:57,840

bunker

32

00:04:01,750 --> 00:03:59,120

somewhere in the middle of beautiful

33

00:04:03,270 --> 00:04:01,760

downtown burbank california and i would

34

00:04:04,630 --> 00:04:03,280

like to welcome everybody listening all

35

00:04:09,030 --> 00:04:04,640

around the world

36

00:04:12,229 --> 00:04:09,040

all across the united states

37

00:04:12,630 --> 00:04:12,239

hither and tether to and fro back and

38

00:04:14,470 --> 00:04:12,640

forth

39

00:04:17,670 --> 00:04:14,480

up and down east and west north and

40

00:04:21,909 --> 00:04:20,629

this is fade to black for kjcr the game

41

00:04:25,030 --> 00:04:21,919

changer network and

42

00:04:27,749 --> 00:04:25,040

kgra the planets

43

00:04:30,629 --> 00:04:27,759

i'm murals jimmy church what is cracking

44

00:04:33,030 --> 00:04:30,639

everybody how you doing

45

00:04:35,990 --> 00:04:33,040

how you doing what a great show last

46

00:04:43,430 --> 00:04:39,189

when you do uh an ama ask me

47

00:04:46,469 --> 00:04:43,440

anything like we did last night

48

00:04:46,479 --> 00:04:51,670

i know that we had uh probably

49

00:05:01,510 --> 00:04:56,950

oh i'm gonna guesstimate here and say

50

00:05:06,550 --> 00:05:04,790

that's a lot that's a lot and that's a

51  
00:05:07,270 --> 00:05:06,560  
week's worth of shows and i think i

52  
00:05:10,710 --> 00:05:07,280  
probably

53  
00:05:14,230 --> 00:05:10,720  
got 75 in maybe

54  
00:05:17,270 --> 00:05:14,240  
50 75 uh full show but

55  
00:05:22,070 --> 00:05:17,280  
man uh at the end of that i'm

56  
00:05:25,189 --> 00:05:22,080  
i'm spent i'm spend i'm done i'm toast

57  
00:05:28,390 --> 00:05:25,199  
and it was uh it was a lot of fun and i

58  
00:05:30,230 --> 00:05:28,400  
i i can't wait to do it again and it's

59  
00:05:33,909 --> 00:05:30,240  
also interesting

60  
00:05:37,029 --> 00:05:33,919  
how different

61  
00:05:38,550 --> 00:05:37,039  
you know different people there are

62  
00:05:41,749 --> 00:05:38,560  
different segments

63  
00:05:44,230 --> 00:05:41,759

of of the audience out there some are

64

00:05:45,909 --> 00:05:44,240

over at talk stream live some are at

65

00:05:49,510 --> 00:05:45,919

kgra

66

00:05:52,790 --> 00:05:49,520

some are at speaker some

67

00:05:56,070 --> 00:05:52,800

iheart some are on youtube some

68

00:05:58,309 --> 00:05:56,080

are on twitter some are on facebook

69

00:05:59,430 --> 00:05:58,319

um and these different feeds that we

70

00:06:02,469 --> 00:05:59,440

have going on out there

71

00:06:03,670 --> 00:06:02,479

and they don't necessarily interact in

72

00:06:05,590 --> 00:06:03,680

the past

73

00:06:07,590 --> 00:06:05,600

and if you think about it like this in

74

00:06:10,790 --> 00:06:07,600

the past we've uh

75

00:06:13,990 --> 00:06:10,800

nearly exclusively done all of our amas

76

00:06:14,390 --> 00:06:14,000

with twitter right because it's easy to

77

00:06:17,990 --> 00:06:14,400

do

78

00:06:21,510 --> 00:06:18,000

and and so but splitting this off now

79

00:06:26,469 --> 00:06:21,520

into different groups where that

80

00:06:29,670 --> 00:06:26,479

group hasn't posted questions before

81

00:06:32,710 --> 00:06:29,680

and so some of them have been asked

82

00:06:33,909 --> 00:06:32,720

before but they never heard the answer

83

00:06:35,830 --> 00:06:33,919

because they weren't you know what i

84

00:06:37,110 --> 00:06:35,840

mean and it was very interesting to see

85

00:06:41,430 --> 00:06:37,120

that last night

86

00:06:43,510 --> 00:06:41,440

that the general interest fantastic fast

87

00:06:45,350 --> 00:06:43,520

just an unbelievably great show last

88

00:06:47,430 --> 00:06:45,360

night i want to thank everybody

89

00:06:48,629 --> 00:06:47,440

for not only hanging out everybody on

90

00:06:51,430 --> 00:06:48,639

facebook you guys are

91

00:06:52,550 --> 00:06:51,440

you guys are just awesome awesome uh the

92

00:06:54,550 --> 00:06:52,560

fader knots and

93

00:06:55,830 --> 00:06:54,560

everybody that tunes into the show each

94

00:07:00,150 --> 00:06:55,840

night uh

95

00:07:02,469 --> 00:07:00,160

with that wow what a week on the show

96

00:07:04,309 --> 00:07:02,479

last night was the ama of course tonight

97

00:07:06,790 --> 00:07:04,319

walter cruttenden is here

98

00:07:07,670 --> 00:07:06,800

we're going to be talking about the

99

00:07:11,830 --> 00:07:07,680

universe

100

00:07:18,390 --> 00:07:11,840

now when you say that that pretty much

101

00:07:21,990 --> 00:07:20,550

that's it that's all there is we're

102

00:07:23,110 --> 00:07:22,000

gonna do that tonight with walter i

103

00:07:25,589 --> 00:07:23,120

cannot wait

104

00:07:26,870 --> 00:07:25,599

and uh speaking with uh with walter

105

00:07:29,029 --> 00:07:26,880

right before the show tonight

106

00:07:31,350 --> 00:07:29,039

he goes yeah i hope to talk about blah

107

00:07:33,029 --> 00:07:31,360

blah blah blah blah and i was like

108

00:07:36,070 --> 00:07:33,039

wow

109

00:07:38,070 --> 00:07:36,080

yes it's going to be a good show

110

00:07:40,550 --> 00:07:38,080

tomorrow night dean rayden is here with

111

00:07:43,670 --> 00:07:40,560

a conversation about our mind

112

00:07:45,270 --> 00:07:43,680

our brain and consciousness

113

00:07:47,430 --> 00:07:45,280

that is tomorrow night it's going to be

114

00:07:48,070 --> 00:07:47,440

another extraordinary show thursday

115

00:07:56,150 --> 00:07:48,080

night

116

00:07:57,909 --> 00:07:56,160

the call-in show last thursday

117

00:07:59,270 --> 00:07:57,919

with everybody's uh forgotten

118

00:08:02,390 --> 00:07:59,280

experiences

119

00:08:05,909 --> 00:08:02,400

and we are still tallying

120

00:08:09,350 --> 00:08:05,919

the numbers uh for the winner and

121

00:08:11,670 --> 00:08:09,360

i will get back to you i have no issues

122

00:08:14,070 --> 00:08:11,680

with all of you good people right now

123

00:08:17,510 --> 00:08:14,080

like posting up in twitter

124

00:08:20,070 --> 00:08:17,520

uh who you uh twitter's easy you can

125

00:08:23,270 --> 00:08:20,080

also email me jimmy jimmychurchradio.com

126

00:08:27,350 --> 00:08:23,280

just post up there post up there and i

127

00:08:31,510 --> 00:08:27,360

will uh thursday night is fader night

128

00:08:35,509 --> 00:08:31,520

so i hope to uh have the tallies

129

00:08:39,029 --> 00:08:35,519

done but what i will do is i'll review

130

00:08:42,870 --> 00:08:39,039

all of the calls all of these stories

131

00:08:43,829 --> 00:08:42,880

which i have here uh with you to remind

132

00:08:46,790 --> 00:08:43,839

you

133

00:08:48,790 --> 00:08:46,800

okay all right there there's there's

134

00:08:51,670 --> 00:08:48,800

like a three-way tie

135

00:08:52,310 --> 00:08:51,680

right now and and we definitely need to

136

00:08:54,230 --> 00:08:52,320

break it

137

00:08:56,070 --> 00:08:54,240

okay all right so we'll do that on

138

00:08:58,949 --> 00:08:56,080

thursday haven't forgotten about that

139

00:08:59,829 --> 00:08:58,959

that that hat okay follow me on twitter

140

00:09:06,949 --> 00:08:59,839

at j

141

00:09:10,630 --> 00:09:06,959

church radio hashtag f2b is the sandbox

142

00:09:13,590 --> 00:09:10,640

you can engage their hashtag f2bq

143

00:09:14,470 --> 00:09:13,600

is fade to black questions if you post

144

00:09:17,910 --> 00:09:14,480

in

145

00:09:19,190 --> 00:09:17,920

f2bq make it a question if it's not a

146

00:09:23,030 --> 00:09:19,200

question

147

00:09:24,550 --> 00:09:23,040

i just mute you yep that's what i do i

148

00:09:25,670 --> 00:09:24,560

just mute i'm like man there's a

149

00:09:27,990 --> 00:09:25,680

violator

150

00:09:29,030 --> 00:09:28,000

can't can't have time for that click

151

00:09:36,550 --> 00:09:29,040

click mute

152

00:09:40,310 --> 00:09:36,560

i just want questions in hashtag

153

00:09:43,430 --> 00:09:40,320

ftbq email is jimmy jimmychurchradio.com

154

00:09:45,030 --> 00:09:43,440

we have two chat rooms open speaker and

155

00:09:47,430 --> 00:09:45,040

of course kgra

156

00:09:48,470 --> 00:09:47,440

and everybody that's going to town over

157

00:09:51,750 --> 00:09:48,480

on youtube

158

00:09:53,430 --> 00:09:51,760

and uh our facebook radio page

159

00:09:55,350 --> 00:09:53,440

uh good evening good evening to

160

00:09:56,470 --> 00:09:55,360

everybody all right get your immune

161

00:09:58,630 --> 00:09:56,480

system boosted i

162

00:10:00,630 --> 00:09:58,640

mentioned yesterday on the show and i'm

163

00:10:04,230 --> 00:10:00,640

being very serious about this

164

00:10:07,590 --> 00:10:04,240

you need to go to get the t.com and get

165

00:10:11,590 --> 00:10:07,600

the apple cider vinegar

166

00:10:13,350 --> 00:10:11,600

capsules game changer

167

00:10:15,430 --> 00:10:13,360

and if you need to read up on apple

168

00:10:18,949 --> 00:10:15,440

cider vinegar and what it does

169

00:10:22,069 --> 00:10:18,959

oh man game changer

170

00:10:25,110 --> 00:10:22,079

game changer on everything that i love

171

00:10:28,470 --> 00:10:25,120

i took two right before the show tonight

172

00:10:30,310 --> 00:10:28,480

yep game changer

173

00:10:31,590 --> 00:10:30,320

go to the specials page they got a

174

00:10:34,790 --> 00:10:31,600

package right there

175

00:10:38,550 --> 00:10:34,800

get it get the uh

176

00:10:40,310 --> 00:10:38,560

red cider vinegar pills um capsules

177

00:10:42,710 --> 00:10:40,320

all orders over fifty dollars with the

178

00:10:43,750 --> 00:10:42,720

promo code fader f-a-d-e-r you're gonna

179

00:10:46,630 --> 00:10:43,760

get free shipping

180

00:10:48,870 --> 00:10:46,640

so go and do it now get the t.com also

181

00:10:51,590 --> 00:10:48,880

forbidden knowledge.tv this is billy

182

00:10:54,230 --> 00:10:51,600

carson's new internet tv network

183

00:10:54,949 --> 00:10:54,240

and our newest sponsor here at fade to

184

00:10:58,230 --> 00:10:54,959

black

185

00:10:59,509 --> 00:10:58,240

i want you to go right now register and

186

00:11:02,870 --> 00:10:59,519

you're gonna get

187

00:11:04,790 --> 00:11:02,880

three days three days free trial

188

00:11:05,590 --> 00:11:04,800

membership right now over at forbidden

189

00:11:08,630 --> 00:11:05,600

knowledge

190

00:11:10,230 --> 00:11:08,640

dot tv river moon coffee been with us

191

00:11:12,550 --> 00:11:10,240

forever makers of

192

00:11:14,470 --> 00:11:12,560

our very own fade to black blend and

193

00:11:16,870 --> 00:11:14,480

game changer blend

194

00:11:17,990 --> 00:11:16,880

go and get it now you can do it two ways

195

00:11:20,310 --> 00:11:18,000

go to the amazon

196

00:11:21,990 --> 00:11:20,320

prime store amazon store you can do it

197

00:11:23,590 --> 00:11:22,000

there if your prime member free shipping

198

00:11:26,389 --> 00:11:23,600

and discounts

199

00:11:28,069 --> 00:11:26,399

uh promo codes are over in the banners

200

00:11:29,590 --> 00:11:28,079

at jimmychurchradio.com or you can go

201  
00:11:30,230 --> 00:11:29,600  
straight to the website promo codes are

202  
00:11:33,509 --> 00:11:30,240  
there too

203  
00:11:36,069 --> 00:11:33,519  
as well go and do river moon coffee the

204  
00:11:37,110 --> 00:11:36,079  
best coffee in the world it's the best

205  
00:11:38,870 --> 00:11:37,120  
it's the best

206  
00:11:41,350 --> 00:11:38,880  
all right let's get to the breaking news

207  
00:11:44,389 --> 00:11:41,360  
let's get things started

208  
00:11:47,670 --> 00:11:44,399  
the largest theft of

209  
00:11:50,389 --> 00:11:47,680  
data in c i a

210  
00:11:52,629 --> 00:11:50,399  
history happened because a specialized

211  
00:11:54,230 --> 00:11:52,639  
unit within the agency was so focused on

212  
00:11:56,870 --> 00:11:54,240  
building cyber weapons

213  
00:11:58,629 --> 00:11:56,880

that an employee took advantage of a

214

00:12:02,470 --> 00:11:58,639

woefully lacked security

215

00:12:05,350 --> 00:12:02,480

system and gave secret hacking tools

216

00:12:07,030 --> 00:12:05,360

to wikileaks all of this according to an

217

00:12:10,470 --> 00:12:07,040

internal report

218

00:12:12,629 --> 00:12:10,480

by the cia which was released today

219

00:12:15,670 --> 00:12:12,639

the hacking tools stolen in the breach

220

00:12:18,629 --> 00:12:15,680

which occurred back in 2016

221

00:12:20,710 --> 00:12:18,639

that's right hacking tools when

222

00:12:23,829 --> 00:12:20,720

wikileaks published what it claimed to

223

00:12:24,389 --> 00:12:23,839

be the largest trove of cia documents

224

00:12:27,670 --> 00:12:24,399

dubbed

225

00:12:29,590 --> 00:12:27,680

vault 7. i talked about it quite a bit

226

00:12:31,110 --> 00:12:29,600

right here on fade to black which

227

00:12:32,230 --> 00:12:31,120

detailed some of the agencies

228

00:12:35,430 --> 00:12:32,240

sophisticated

229

00:12:38,310 --> 00:12:35,440

cyber weapons the cia report

230

00:12:40,949 --> 00:12:38,320

said the agency didn't know the full

231

00:12:42,949 --> 00:12:40,959

extent of the damage because the cci

232

00:12:44,310 --> 00:12:42,959

system unlike other parts of the

233

00:12:47,990 --> 00:12:44,320

agency's it

234

00:12:51,030 --> 00:12:48,000

systems did not require user activity

235

00:12:53,030 --> 00:12:51,040

monitoring or other safeguards i'm not

236

00:12:55,590 --> 00:12:53,040

kidding it was just wide open for

237

00:12:58,790 --> 00:12:55,600

anybody to have access to

238

00:13:02,069 --> 00:12:58,800

right the report reads and i

239

00:13:04,710 --> 00:13:02,079

am quoting quote the

240

00:13:05,110 --> 00:13:04,720

most of our sensitive cyber weapons were

241

00:13:08,470 --> 00:13:05,120

not

242

00:13:11,269 --> 00:13:08,480

compartmented users shared systems

243

00:13:11,590 --> 00:13:11,279

administrator level passwords there were

244

00:13:15,030 --> 00:13:11,600

no

245

00:13:17,590 --> 00:13:15,040

effective removal media tools

246

00:13:19,389 --> 00:13:17,600

there and historical data was available

247

00:13:22,389 --> 00:13:19,399

to users

248

00:13:25,030 --> 00:13:22,399

indefinitely now

249

00:13:27,750 --> 00:13:25,040

the cia's lack cyber security practices

250

00:13:29,430 --> 00:13:27,760

were also highlighted in federal court

251  
00:13:30,790 --> 00:13:29,440  
all of this happened earlier this year

252  
00:13:34,230 --> 00:13:30,800  
during the trial

253  
00:13:37,350 --> 00:13:34,240  
of joshua schult the xcia

254  
00:13:40,470 --> 00:13:37,360  
employee who is accused of handing over

255  
00:13:43,829 --> 00:13:40,480  
reams of classified data to wikileaks

256  
00:13:47,269 --> 00:13:43,839  
in 2016. in

257  
00:13:49,829 --> 00:13:47,279  
october of 2017 the report

258  
00:13:50,629 --> 00:13:49,839  
was introduced as evidence during the

259  
00:13:53,350 --> 00:13:50,639  
trial and

260  
00:13:55,350 --> 00:13:53,360  
schultz attorneys argued that the system

261  
00:13:57,269 --> 00:13:55,360  
security was so poor

262  
00:13:58,629 --> 00:13:57,279  
that the information could have been

263  
00:14:03,509 --> 00:13:58,639

accessed by a

264

00:14:05,910 --> 00:14:03,519

large number of employees anybody

265

00:14:07,670 --> 00:14:05,920

in march a federal grand jury in new

266

00:14:11,110 --> 00:14:07,680

york failed to reach a verdict

267

00:14:11,910 --> 00:14:11,120

and rather schult did in fact give the

268

00:14:15,110 --> 00:14:11,920

data

269

00:14:18,389 --> 00:14:15,120

to wikileaks now

270

00:14:21,269 --> 00:14:18,399

there is talk in this report we're

271

00:14:34,470 --> 00:14:30,790

34 35 36 terabytes

272

00:14:37,110 --> 00:14:34,480

terabytes that's right

273

00:14:39,829 --> 00:14:37,120

well you knew this was gonna happen and

274

00:14:43,269 --> 00:14:39,839

i guess the days of

275

00:14:44,470 --> 00:14:43,279

of flying are just well the the old days

276  
00:14:47,670 --> 00:14:44,480  
of flying are certainly

277  
00:14:51,350 --> 00:14:47,680  
officially over because

278  
00:14:54,790 --> 00:14:51,360  
most of the airlines right now including

279  
00:14:57,670 --> 00:14:54,800  
easyjet and klm in europe

280  
00:14:58,069 --> 00:14:57,680  
delta airlines and america airlines here

281  
00:15:02,470 --> 00:14:58,079  
in

282  
00:15:06,069 --> 00:15:02,480  
australia

283  
00:15:09,189 --> 00:15:06,079  
are suspending all or part

284  
00:15:09,990 --> 00:15:09,199  
of their alcoholic drinks and its

285  
00:15:14,870 --> 00:15:10,000  
service

286  
00:15:21,509 --> 00:15:17,990  
that's right no more

287  
00:15:24,150 --> 00:15:21,519  
alcohol on airlines

288  
00:15:26,550 --> 00:15:24,160

passengers spending less time drinking

289

00:15:28,949 --> 00:15:26,560

will have their faces covered longer

290

00:15:30,870 --> 00:15:28,959

and this will also curb the interaction

291

00:15:33,430 --> 00:15:30,880

time between flight attendants

292

00:15:35,030 --> 00:15:33,440

and travelers in other words they don't

293

00:15:37,590 --> 00:15:35,040

have to serve drinks they don't have to

294

00:15:39,189 --> 00:15:37,600

ask you what you are drinking because

295

00:15:42,150 --> 00:15:39,199

there's going to be no more drinks

296

00:15:44,470 --> 00:15:42,160

so no more interacting that's it you

297

00:15:46,710 --> 00:15:44,480

don't have to uncover your face to

298

00:15:48,310 --> 00:15:46,720

you know to down whatever you're

299

00:15:49,509 --> 00:15:48,320

drinking throughout the flight you're

300

00:15:50,949 --> 00:15:49,519

not going to do that you're going to

301

00:15:55,350 --> 00:15:50,959

keep your faces covered the

302

00:15:59,990 --> 00:15:55,360

only thing that they may offer

303

00:16:01,990 --> 00:16:00,000

is water and you know what they said

304

00:16:03,670 --> 00:16:02,000

nobody likes to drink water so they're

305

00:16:03,990 --> 00:16:03,680

going to keep their faces covered anyway

306

00:16:05,990 --> 00:16:04,000

oh

307

00:16:07,430 --> 00:16:06,000

food is out food is right out you can

308

00:16:08,150 --> 00:16:07,440

forget about that there's going to be no

309

00:16:10,069 --> 00:16:08,160

food

310

00:16:11,910 --> 00:16:10,079

you're not going to be uncovering your

311

00:16:14,870 --> 00:16:11,920

face uh

312

00:16:16,710 --> 00:16:14,880

to stuff it with not only peanuts but a

313

00:16:18,550 --> 00:16:16,720

cold sandwich or whatever it was that

314

00:16:19,189 --> 00:16:18,560

they were offering bag of chips whatever

315

00:16:20,710 --> 00:16:19,199

it was

316

00:16:22,629 --> 00:16:20,720

it ain't happening you can bring it on

317

00:16:26,069 --> 00:16:22,639

the plane with you

318

00:16:29,829 --> 00:16:26,079

right with no alcohol but that's it

319

00:16:31,829 --> 00:16:29,839

they want your face covered i also heard

320

00:16:33,189 --> 00:16:31,839

there are some airlines that are not

321

00:16:36,230 --> 00:16:33,199

selling the center seats

322

00:16:37,030 --> 00:16:36,240

some are some are they haven't quite

323

00:16:39,829 --> 00:16:37,040

gone that far

324

00:16:41,910 --> 00:16:39,839

yet but i don't know without it's just

325

00:16:43,110 --> 00:16:41,920

the scare that they put into everybody i

326

00:16:45,269 --> 00:16:43,120

don't know if i could

327

00:16:46,790 --> 00:16:45,279

sit next to somebody for five six seven

328

00:16:50,230 --> 00:16:46,800

eight hours on a plane

329

00:16:51,670 --> 00:16:50,240

and i just i just i couldn't before

330

00:16:53,749 --> 00:16:51,680

coronavirus

331

00:16:55,350 --> 00:16:53,759

the star works ufo's an artificial

332

00:16:56,150 --> 00:16:55,360

intelligence conference in laughlin

333

00:16:58,470 --> 00:16:56,160

nevada

334

00:17:00,310 --> 00:16:58,480

november 5th through the 8th is

335

00:17:03,430 --> 00:17:00,320

happening at the aquarius

336

00:17:03,990 --> 00:17:03,440

hotel and casino grant cameron's going

337

00:17:08,309 --> 00:17:04,000

to be there

338

00:17:11,270 --> 00:17:08,319

fox alan stivelman sid goldberg

339

00:17:12,710 --> 00:17:11,280

and another dozen great speakers we're

340

00:17:14,710 --> 00:17:12,720

going to be doing two nights of sky

341

00:17:16,069 --> 00:17:14,720

watches i will be hosting i'll be

342

00:17:19,189 --> 00:17:16,079

hosting the conference

343

00:17:21,909 --> 00:17:19,199

i'm going to be speaking as well so come

344

00:17:24,549 --> 00:17:21,919

and check it out [starworksusa.com](http://starworksusa.com)

345

00:17:26,309 --> 00:17:24,559

for tickets and info the banners are

346

00:17:28,789 --> 00:17:26,319

over at [jimmychurchradio.com](http://jimmychurchradio.com)

347

00:17:31,029 --> 00:17:28,799

also the biggest event in the world the

348

00:17:33,190 --> 00:17:31,039

biggest one disclosure fest

349

00:17:34,870 --> 00:17:33,200

at the historic los angeles park in

350

00:17:37,110 --> 00:17:34,880

downtown los angeles

351  
00:17:38,150 --> 00:17:37,120  
is happening this year on october 10th

352  
00:17:41,270 --> 00:17:38,160  
2020

353  
00:17:42,230 --> 00:17:41,280  
single day one day event 20 000

354  
00:17:44,070 --> 00:17:42,240  
attendees

355  
00:17:46,230 --> 00:17:44,080  
and with the crowd that large we do want

356  
00:17:48,870 --> 00:17:46,240  
to make sure that everyone is

357  
00:17:50,950 --> 00:17:48,880  
safe and having a great time of course

358  
00:17:51,270 --> 00:17:50,960  
it's my birthday i'll be hosting i will

359  
00:17:55,029 --> 00:17:51,280  
be

360  
00:17:57,669 --> 00:17:55,039  
it started

361  
00:18:00,150 --> 00:17:57,679  
and it's amazing to see 20 000 people in

362  
00:18:02,950 --> 00:18:00,160  
one place at a park in downtown l.a

363  
00:18:04,710 --> 00:18:02,960

there for mass meditation and ufos and

364

00:18:08,750 --> 00:18:04,720

conspiracy and yoga

365

00:18:11,029 --> 00:18:08,760

and music and art absolutely amazing

366

00:18:14,390 --> 00:18:11,039

disclosurefest.org totally free

367

00:18:16,630 --> 00:18:14,400

alright disclosurefest.org let's get to

368

00:18:20,630 --> 00:18:16,640

show crack and happy birthday to today

369

00:18:24,390 --> 00:18:20,640

the one and only blues brother tom

370

00:18:28,950 --> 00:18:24,400

bones malone today is 73 years old

371

00:18:32,150 --> 00:18:28,960

gino vannelli today 68 years old

372

00:18:35,430 --> 00:18:32,160

another canadian export right there

373

00:18:36,470 --> 00:18:35,440

gino venelli there you go our dead guy's

374

00:18:41,830 --> 00:18:36,480

birthday today is

375

00:18:42,950 --> 00:18:41,840

tupac tupac shakur 1971-1996 died at the

376

00:18:44,710 --> 00:18:42,960

age of 25

377

00:18:46,310 --> 00:18:44,720

one of the most influential rappers in

378

00:18:48,070 --> 00:18:46,320

history and one of the most successful

379

00:18:51,590 --> 00:18:48,080

artists of all time

380

00:18:53,110 --> 00:18:51,600

tupac released four albums between 1991

381

00:18:56,310 --> 00:18:53,120

and 1996

382

00:18:59,270 --> 00:18:56,320

eventually selling over 75 million

383

00:19:01,270 --> 00:18:59,280

albums worldwide shakur was shot four

384

00:19:03,750 --> 00:19:01,280

times by an unknown assailant in a

385

00:19:07,590 --> 00:19:03,760

drive-by shooting in las vegas

386

00:19:09,750 --> 00:19:07,600

he just left uh a mike tyson fight

387

00:19:10,630 --> 00:19:09,760

ended up dying six days later and the

388

00:19:13,270 --> 00:19:10,640

gunman

389

00:19:13,909 --> 00:19:13,280

was never captured on this day in

390

00:19:19,990 --> 00:19:13,919

history

391

00:19:23,110 --> 00:19:20,000

otd 1963 cosmonaut valentina tereshkova

392

00:19:26,870 --> 00:19:23,120

becomes the first woman in space after

393

00:19:29,909 --> 00:19:26,880

48 orbits and 71 hours around the globe

394

00:19:32,950 --> 00:19:29,919

she returned to earth then 20

395

00:19:35,510 --> 00:19:32,960

years later two decades dr

396

00:19:36,070 --> 00:19:35,520

sally ride became the first american

397

00:19:38,870 --> 00:19:36,080

woman

398

00:19:41,430 --> 00:19:38,880

in space here's your fader fact for the

399

00:19:49,350 --> 00:19:45,190

in december 2014 a guy

400

00:19:50,950 --> 00:19:49,360

dressed as santa robbed a bank in san

401  
00:19:55,190 --> 00:19:50,960  
francisco

402  
00:19:57,750 --> 00:19:55,200  
the robbery took place during santa con

403  
00:19:59,830 --> 00:19:57,760  
an annual event in which hundreds of

404  
00:20:02,870 --> 00:19:59,840  
people dressed as santa swarm

405  
00:20:06,070 --> 00:20:02,880  
union square he was never

406  
00:20:08,789 --> 00:20:06,080  
caught but a year later

407  
00:20:12,070 --> 00:20:08,799  
a man dressed as spock robbed a bank

408  
00:20:15,110 --> 00:20:12,080  
next door to a star trek convention

409  
00:20:17,350 --> 00:20:15,120  
ah i made that part up tonight

410  
00:20:18,789 --> 00:20:17,360  
we have very special guest walter

411  
00:20:22,630 --> 00:20:18,799  
cruttenden is here

412  
00:20:24,549 --> 00:20:22,640  
my favorite subject our universe

413  
00:20:26,630 --> 00:20:24,559

tomorrow night it is dean rayden with a

414

00:20:27,590 --> 00:20:26,640

conversation about our mind brain and

415

00:20:29,909 --> 00:20:27,600

consciousness

416

00:20:32,470 --> 00:20:29,919

and of course this thursday night is

417

00:20:35,669 --> 00:20:32,480

another fader night with open lines

418

00:20:37,110 --> 00:20:35,679

all night long now i need to hit this

419

00:20:38,870 --> 00:20:37,120

river moon coffee

420

00:20:43,590 --> 00:20:38,880

i want to carry on my little

421

00:20:48,549 --> 00:20:46,230

a little more detail because tonight our

422

00:20:51,029 --> 00:20:48,559

guest is walter cruttenden

423

00:20:53,110 --> 00:20:51,039

someone who has studied the stars for a

424

00:20:54,470 --> 00:20:53,120

very long time

425

00:20:56,470 --> 00:20:54,480

he has looked to the heavens and

426  
00:20:59,350 --> 00:20:56,480  
wondered about its significance with us

427  
00:21:00,390 --> 00:20:59,360  
here in our solar neighborhood binary

428  
00:21:03,110 --> 00:21:00,400  
star systems

429  
00:21:03,830 --> 00:21:03,120  
the precession of the equinox hidden

430  
00:21:08,149 --> 00:21:03,840  
planets

431  
00:21:11,510 --> 00:21:08,159  
astronomy cosmology

432  
00:21:14,830 --> 00:21:11,520  
this is walter cruttenden

433  
00:21:18,270 --> 00:21:14,840  
now we know now

434  
00:21:22,549 --> 00:21:18,280  
today that our milky way consists of

435  
00:21:26,230 --> 00:21:22,559  
500 billion stars and 1 trillion planets

436  
00:21:30,070 --> 00:21:26,240  
and our galaxy is one of 500 billion

437  
00:21:33,750 --> 00:21:30,080  
in our universe all of this

438  
00:21:37,110 --> 00:21:33,760

from us looking out to the stars

439

00:21:40,870 --> 00:21:37,120

like walter we understand this from

440

00:21:45,350 --> 00:21:40,880

our tiny little place in all that there

441

00:21:45,630 --> 00:21:45,360

is yesterday a study was published in

442

00:21:48,390 --> 00:21:45,640

the

443

00:21:49,750 --> 00:21:48,400

astrophysical journal where scientists

444

00:21:53,510 --> 00:21:49,760

have calculated

445

00:21:55,669 --> 00:21:53,520

that there could be a minimum of 36

446

00:21:56,789 --> 00:21:55,679

active communicating intelligent

447

00:21:59,990 --> 00:21:56,799

civilizations

448

00:22:03,110 --> 00:22:00,000

in our milky way galaxy what is most

449

00:22:07,510 --> 00:22:03,120

important uh about this

450

00:22:10,950 --> 00:22:07,520

um and most surprising about this study

451  
00:22:15,510 --> 00:22:10,960  
is that there are two very specific

452  
00:22:20,230 --> 00:22:15,520  
points made one communicating

453  
00:22:23,110 --> 00:22:20,240  
and two intelligent civilizations

454  
00:22:23,830 --> 00:22:23,120  
the number 36 is very strange as well

455  
00:22:27,830 --> 00:22:23,840  
because

456  
00:22:31,510 --> 00:22:27,840  
first it is defined

457  
00:22:33,990 --> 00:22:31,520  
and second it is rather small

458  
00:22:35,830 --> 00:22:34,000  
with one trillion planets in our galaxy

459  
00:22:36,310 --> 00:22:35,840  
you would assume that the number would

460  
00:22:39,190 --> 00:22:36,320  
be

461  
00:22:42,630 --> 00:22:39,200  
in the tens of thousands so we have to

462  
00:22:45,909 --> 00:22:42,640  
ask ourselves the obvious question

463  
00:22:49,430 --> 00:22:45,919

what is it that they know that we

464

00:22:50,630 --> 00:22:49,440

do not the study also takes into

465

00:22:53,270 --> 00:22:50,640

consideration

466

00:22:54,470 --> 00:22:53,280

that et's communication would be at the

467

00:22:57,190 --> 00:22:54,480

speed of light

468

00:22:57,669 --> 00:22:57,200

and that due to time and distance we may

469

00:23:00,710 --> 00:22:57,679

never

470

00:23:03,029 --> 00:23:00,720

actually know if they are out there

471

00:23:04,310 --> 00:23:03,039

that our earth will need to hang out for

472

00:23:06,310 --> 00:23:04,320

another six thousand

473

00:23:09,110 --> 00:23:06,320

one hundred and twenty years before we

474

00:23:12,390 --> 00:23:09,120

can have a real two-way

475

00:23:13,990 --> 00:23:12,400

communication with et the scientists

476  
00:23:17,270 --> 00:23:14,000  
also realized

477  
00:23:21,029 --> 00:23:17,280  
that a second set of numbers using

478  
00:23:21,990 --> 00:23:21,039  
more relaxed math stating that there

479  
00:23:25,510 --> 00:23:22,000  
could be a minimum

480  
00:23:26,390 --> 00:23:25,520  
of 928 civilizations communicating in

481  
00:23:28,950 --> 00:23:26,400  
our galaxy

482  
00:23:30,149 --> 00:23:28,960  
right now and that direct conversations

483  
00:23:33,909 --> 00:23:30,159  
with et

484  
00:23:35,789 --> 00:23:33,919  
would happen in about 700 years

485  
00:23:36,950 --> 00:23:35,799  
the scientists created the

486  
00:23:39,990 --> 00:23:36,960  
astrobiological

487  
00:23:44,230 --> 00:23:40,000  
copernican principle it's a new

488  
00:23:46,789 --> 00:23:44,240

fresh version of the drake equation

489

00:23:48,310 --> 00:23:46,799

this new math includes the history of

490

00:23:51,029 --> 00:23:48,320

star formation

491

00:23:52,070 --> 00:23:51,039

the ages of stars and their metal

492

00:23:54,149 --> 00:23:52,080

content

493

00:23:55,269 --> 00:23:54,159

now the drake equation was always just a

494

00:23:56,950 --> 00:23:55,279

stepping stone

495

00:23:58,710 --> 00:23:56,960

and we knew that there were too many

496

00:24:01,990 --> 00:23:58,720

assumptions with it that

497

00:24:05,029 --> 00:24:02,000

that made it almost useless with

498

00:24:09,190 --> 00:24:05,039

it came the fermi paradox

499

00:24:11,990 --> 00:24:09,200

you know right i'm gonna quote

500

00:24:13,350 --> 00:24:12,000

i'm gonna quote i paraphrase we know

501  
00:24:14,950 --> 00:24:13,360  
that there are countless advanced

502  
00:24:18,230 --> 00:24:14,960  
civilizations out there

503  
00:24:19,669 --> 00:24:18,240  
but where are they and why haven't they

504  
00:24:23,190 --> 00:24:19,679  
visited us

505  
00:24:25,510 --> 00:24:23,200  
yet end quote now if an advanced

506  
00:24:28,230 --> 00:24:25,520  
civilization is traveling to the stars

507  
00:24:30,630 --> 00:24:28,240  
we must assume as fact due to the

508  
00:24:32,470 --> 00:24:30,640  
vastness of space and the ginormous

509  
00:24:34,630 --> 00:24:32,480  
numbers involved

510  
00:24:36,470 --> 00:24:34,640  
then they are not communicating at the

511  
00:24:39,669 --> 00:24:36,480  
speed of light

512  
00:24:44,549 --> 00:24:39,679  
they are communicating at the speed

513  
00:24:46,710 --> 00:24:44,559

of now we are we are not at the point

514

00:24:48,070 --> 00:24:46,720

of understanding their technology we're

515

00:24:51,110 --> 00:24:48,080

not even close

516

00:24:53,029 --> 00:24:51,120

but we are at the point of knowing there

517

00:24:56,230 --> 00:24:53,039

is something else going on

518

00:24:57,909 --> 00:24:56,240

and soon soon we will be chatting on

519

00:25:01,669 --> 00:24:57,919

walkie-talkies with our e.t

520

00:25:04,149 --> 00:25:01,679

brothers and sisters we're close

521

00:25:07,029 --> 00:25:04,159

we just need the challenge there's

522

00:25:09,669 --> 00:25:07,039

another way to look at all of this

523

00:25:10,710 --> 00:25:09,679

because first off it's huge breaking

524

00:25:13,750 --> 00:25:10,720

news

525

00:25:14,630 --> 00:25:13,760

36 civilizations out there in our milky

526

00:25:19,590 --> 00:25:14,640

way

527

00:25:23,269 --> 00:25:19,600

communicating right well

528

00:25:25,110 --> 00:25:23,279

it's that how do i say this

529

00:25:28,070 --> 00:25:25,120

it's that maybe communication has been

530

00:25:30,390 --> 00:25:28,080

established already

531

00:25:31,190 --> 00:25:30,400

think about that and the only way to

532

00:25:34,390 --> 00:25:31,200

start

533

00:25:36,710 --> 00:25:34,400

this conversation is leak this

534

00:25:40,830 --> 00:25:36,720

information by dropping these numbers

535

00:25:42,149 --> 00:25:40,840

on us through an official scientific

536

00:25:45,350 --> 00:25:42,159

journal

537

00:25:48,710 --> 00:25:45,360

that's right because they can't

538

00:25:51,590 --> 00:25:48,720

say that we have the tech

539

00:25:53,110 --> 00:25:51,600

now because it would open the door to

540

00:25:53,909 --> 00:25:53,120

other questions that would have to be

541

00:25:56,789 --> 00:25:53,919

answered

542

00:25:57,750 --> 00:25:56,799

such as how long have you known this

543

00:26:03,029 --> 00:25:57,760

dude

544

00:26:08,870 --> 00:26:06,269

now i realize that this is a true

545

00:26:11,110 --> 00:26:08,880

catch-22 circular argument that just

546

00:26:14,149 --> 00:26:11,120

goes on and on without resolve

547

00:26:16,630 --> 00:26:14,159

that's what we do in the ufo community

548

00:26:17,909 --> 00:26:16,640

it's what we are left with the

549

00:26:20,789 --> 00:26:17,919

mainstream media

550

00:26:21,830 --> 00:26:20,799

has dropped one ufo alien e.t or

551  
00:26:23,909 --> 00:26:21,840  
exoplanet

552  
00:26:25,669 --> 00:26:23,919  
story after another for almost three

553  
00:26:28,310 --> 00:26:25,679  
years with no end in sight

554  
00:26:29,590 --> 00:26:28,320  
and we have to ask ourselves what is the

555  
00:26:33,110 --> 00:26:29,600  
plan here

556  
00:26:35,190 --> 00:26:33,120  
what's the end game there is no question

557  
00:26:37,110 --> 00:26:35,200  
that ttsa and tom delong have helped

558  
00:26:39,669 --> 00:26:37,120  
push the ufo question out into the

559  
00:26:41,510 --> 00:26:39,679  
public and their list of big names tied

560  
00:26:42,470 --> 00:26:41,520  
to them directly was part of their

561  
00:26:45,830 --> 00:26:42,480  
success

562  
00:26:47,590 --> 00:26:45,840  
the pentagon louis elizondo chris mellon

563  
00:26:50,870 --> 00:26:47,600

the cia hal put off

564

00:26:53,909 --> 00:26:50,880

and dr eric davis all

565

00:26:57,830 --> 00:26:53,919

quoted touted and thrust upon the public

566

00:27:02,230 --> 00:26:57,840

exciting days right well

567

00:27:04,950 --> 00:27:02,240

not so fast dr eric davis received his

568

00:27:07,990 --> 00:27:04,960

phd in astrophysics at the university of

569

00:27:10,789 --> 00:27:08,000

arizona in 1991

570

00:27:11,909 --> 00:27:10,799

eric is currently employed as a senior

571

00:27:13,990 --> 00:27:11,919

research physicist

572

00:27:15,350 --> 00:27:14,000

at the institute for advanced studies in

573

00:27:18,389 --> 00:27:15,360

austin texas

574

00:27:21,750 --> 00:27:18,399

he is also the ceo chief scientist

575

00:27:23,510 --> 00:27:21,760

of warp drive metrics and has provided

576

00:27:24,789 --> 00:27:23,520

contract services to the air force

577

00:27:26,870 --> 00:27:24,799

research laboratory

578

00:27:27,830 --> 00:27:26,880

the department of defense the department

579

00:27:30,389 --> 00:27:27,840

of energy

580

00:27:31,510 --> 00:27:30,399

and the nasa institute for advanced

581

00:27:33,750 --> 00:27:31,520

concepts

582

00:27:34,789 --> 00:27:33,760

he was also a technical contributor and

583

00:27:37,510 --> 00:27:34,799

consultant

584

00:27:38,149 --> 00:27:37,520

to the nasa breakthrough propulsion

585

00:27:41,750 --> 00:27:38,159

physics

586

00:27:45,350 --> 00:27:41,760

program dr davis

587

00:27:47,430 --> 00:27:45,360

seems very impressive he is also tied

588

00:27:49,830 --> 00:27:47,440

directly to ttsa

589

00:27:52,070 --> 00:27:49,840

and bob bigelow and his name is thrown

590

00:27:53,590 --> 00:27:52,080

around a lot when it comes to ufo zt and

591

00:27:56,870 --> 00:27:53,600

disclosure

592

00:27:58,950 --> 00:27:56,880

dr eric davis last year

593

00:28:00,389 --> 00:27:58,960

i was sent a document that was written

594

00:28:03,909 --> 00:28:00,399

by dr davis

595

00:28:06,149 --> 00:28:03,919

that i gave the name the wilson

596

00:28:07,990 --> 00:28:06,159

15 pages that was centered around a

597

00:28:08,789 --> 00:28:08,000

conversation in the back of a car in las

598

00:28:11,510 --> 00:28:08,799

vegas

599

00:28:13,669 --> 00:28:11,520

behind the e g and g building between

600

00:28:14,310 --> 00:28:13,679

former defense intelligence agency

601  
00:28:17,510 --> 00:28:14,320  
director

602  
00:28:20,950 --> 00:28:17,520  
admiral thomas wilson and

603  
00:28:22,870 --> 00:28:20,960  
dr eric davis i immediately called dr

604  
00:28:24,549 --> 00:28:22,880  
steven greer i called richard dolan i

605  
00:28:27,269 --> 00:28:24,559  
called grant cameron and i

606  
00:28:27,990 --> 00:28:27,279  
called a host of other researchers and i

607  
00:28:31,269 --> 00:28:28,000  
reviewed

608  
00:28:33,110 --> 00:28:31,279  
each page with them we also hosted a

609  
00:28:34,710 --> 00:28:33,120  
string of shows covering the document

610  
00:28:37,750 --> 00:28:34,720  
and the statements made by dr

611  
00:28:40,630 --> 00:28:37,760  
eric davis later that same week dr

612  
00:28:43,430 --> 00:28:40,640  
greer joined me on coast to coast am to

613  
00:28:46,470 --> 00:28:43,440

to discuss everything in detail

614

00:28:46,789 --> 00:28:46,480

there is no question that the 15 pages

615

00:28:50,789 --> 00:28:46,799

are

616

00:28:54,070 --> 00:28:50,799

real it's a real document it was written

617

00:28:57,510 --> 00:28:54,080

by dr eric davis and came from astronaut

618

00:29:01,350 --> 00:28:57,520

edgar miss mitchell's personal archives

619

00:29:05,350 --> 00:29:01,360

yesterday on june 15 2020

620

00:29:08,630 --> 00:29:05,360

in the blog devoid admiral wilson

621

00:29:11,669 --> 00:29:08,640

said that dr eric davis made it all up

622

00:29:11,990 --> 00:29:11,679

that he wilson was not in vegas at the

623

00:29:15,029 --> 00:29:12,000

time

624

00:29:16,070 --> 00:29:15,039

and he was not in the navy now he was

625

00:29:17,990 --> 00:29:16,080

retired

626

00:29:20,310 --> 00:29:18,000

and could not have been escorted by

627

00:29:20,950 --> 00:29:20,320

three navy officers in uniform as stated

628

00:29:23,750 --> 00:29:20,960

by dr

629

00:29:25,190 --> 00:29:23,760

eric davis he went further to state that

630

00:29:28,149 --> 00:29:25,200

although he may have

631

00:29:30,789 --> 00:29:28,159

met dr davis once in passing he wouldn't

632

00:29:32,870 --> 00:29:30,799

know who he is if he saw him in person

633

00:29:35,430 --> 00:29:32,880

and that he didn't sit in the back of a

634

00:29:36,470 --> 00:29:35,440

car for an hour discussing ufo secrets

635

00:29:39,510 --> 00:29:36,480

with him

636

00:29:39,990 --> 00:29:39,520

admiral wilson did say that he met with

637

00:29:43,590 --> 00:29:40,000

edgar

638

00:29:46,870 --> 00:29:43,600

mitchell and dr greer at the pentagon

639

00:29:49,350 --> 00:29:46,880

ah here we go again with that catch-22

640

00:29:50,310 --> 00:29:49,360

circular argument what parts of the

641

00:29:54,149 --> 00:29:50,320

wilson

642

00:29:56,549 --> 00:29:54,159

are true well we don't know why would dr

643

00:29:57,750 --> 00:29:56,559

eric davis fabricate a meeting with the

644

00:30:01,430 --> 00:29:57,760

admiral

645

00:30:03,510 --> 00:30:01,440

don't know what we do know

646

00:30:05,669 --> 00:30:03,520

is that dr davis is not telling the

647

00:30:09,750 --> 00:30:05,679

truth to the people

648

00:30:13,190 --> 00:30:09,760

that he sent his memo to

649

00:30:16,070 --> 00:30:13,200

and he sent it to very important people

650

00:30:17,510 --> 00:30:16,080

i'm left with the feeling that tsa and

651  
00:30:19,909 --> 00:30:17,520  
the group around them

652  
00:30:21,750 --> 00:30:19,919  
is not who we think they are i know that

653  
00:30:23,990 --> 00:30:21,760  
there will be responses to admiral

654  
00:30:25,510 --> 00:30:24,000  
wilson that will be about not trusting

655  
00:30:27,909 --> 00:30:25,520  
him he's with the man

656  
00:30:29,909 --> 00:30:27,919  
and so forth that this is just another

657  
00:30:31,029 --> 00:30:29,919  
smoke screen put out there to throw us

658  
00:30:33,269 --> 00:30:31,039  
off the trail

659  
00:30:34,310 --> 00:30:33,279  
but it goes much deeper than that

660  
00:30:41,750 --> 00:30:34,320  
everything

661  
00:30:45,350 --> 00:30:41,760  
that tsa has released said and done

662  
00:30:48,389 --> 00:30:45,360  
has had issues with it nothing

663  
00:30:51,669 --> 00:30:48,399

has been clean the wilson dock

664

00:30:53,430 --> 00:30:51,679

written by dr eric davis is another

665

00:30:56,230 --> 00:30:53,440

example of the crap that we

666

00:30:57,509 --> 00:30:56,240

both as a ufo community and the public

667

00:30:59,669 --> 00:30:57,519

have to sort out

668

00:31:01,509 --> 00:30:59,679

we have to sift through and try to

669

00:31:05,190 --> 00:31:01,519

figure out what is real

670

00:31:07,029 --> 00:31:05,200

and what is not for me

671

00:31:08,549 --> 00:31:07,039

after all of the excitement surrounding

672

00:31:11,990 --> 00:31:08,559

the release of wilson

673

00:31:13,990 --> 00:31:12,000

and its memo i find that now i have to

674

00:31:17,430 --> 00:31:14,000

pull it all back in

675

00:31:17,990 --> 00:31:17,440

once again and start over i have to

676  
00:31:20,870 --> 00:31:18,000  
scratch

677  
00:31:21,590 --> 00:31:20,880  
dr eric davis off the list of a credible

678  
00:31:24,549 --> 00:31:21,600  
source

679  
00:31:26,230 --> 00:31:24,559  
and it's sad really i'll just continue

680  
00:31:28,950 --> 00:31:26,240  
to study the real stuff

681  
00:31:31,110 --> 00:31:28,960  
our universe the stars the milky way and

682  
00:31:31,990 --> 00:31:31,120  
the trillion planets that are above my

683  
00:31:34,950 --> 00:31:32,000  
head each night

684  
00:31:35,830 --> 00:31:34,960  
when i stare out into the universe and

685  
00:31:38,389 --> 00:31:35,840  
of course

686  
00:31:39,669 --> 00:31:38,399  
the 36 communicating intelligent

687  
00:31:42,789 --> 00:31:39,679  
civilizations

688  
00:31:44,789 --> 00:31:42,799

that are reaching out to us right now

689

00:31:47,269 --> 00:31:44,799

tonight as i start another show here on

690

00:31:49,830 --> 00:31:47,279

fade to black i'll look at the tiny

691

00:31:52,149 --> 00:31:49,840

grain of sand on the tip of my finger

692

00:31:54,870 --> 00:31:52,159

knowing that we're just one of a

693

00:31:58,310 --> 00:31:54,880

multitude of intelligent species

694

00:32:00,070 --> 00:31:58,320

in our universe tonight walter

695

00:32:02,230 --> 00:32:00,080

cruttenden is here

696

00:32:03,190 --> 00:32:02,240

he's here to discuss our universe

697

00:32:05,830 --> 00:32:03,200

tomorrow night

698

00:32:07,509 --> 00:32:05,840

dean rayden thursday night is another

699

00:32:08,070 --> 00:32:07,519

fader night with open lines all night

700

00:32:10,870 --> 00:32:08,080

long

701  
00:32:11,430 --> 00:32:10,880  
i'm your host jimmy church and i ran

702  
00:32:14,630 --> 00:32:11,440  
right

703  
00:32:16,789 --> 00:32:14,640  
through a network commercial break

704  
00:32:18,789 --> 00:32:16,799  
but i'll be right back with our guest

705  
00:32:19,590 --> 00:32:18,799  
walter cruttenden on the game changer

706  
00:32:26,830 --> 00:32:19,600  
network

707  
00:32:54,750 --> 00:32:28,550  
seriously

708  
00:32:54,760 --> 00:33:01,990  
[Music]

709  
00:33:06,310 --> 00:33:04,070  
this is nicole church daughter of you

710  
00:33:08,710 --> 00:33:06,320  
know who and you're listening to fade to

711  
00:33:12,710 --> 00:33:08,720  
black on jimmychurchradio.com and the

712  
00:33:19,190 --> 00:33:15,029  
you're listening to jimmy church fade to

713  
00:33:31,430 --> 00:33:22,830

fade to black will now pause for alien

714

00:33:36,230 --> 00:33:33,590

when you take the beans from central

715

00:33:37,509 --> 00:33:36,240

america with dashes of indonesian and

716

00:33:39,750 --> 00:33:37,519

african mixed in

717

00:33:41,110 --> 00:33:39,760

and then roasted to the dark side of

718

00:33:44,310 --> 00:33:41,120

fade to black

719

00:33:47,269 --> 00:33:44,320

you create the ultimate brew of fringe

720

00:33:48,950 --> 00:33:47,279

introducing the fade to black blend from

721

00:33:51,990 --> 00:33:48,960

river moon coffee

722

00:33:54,710 --> 00:33:52,000

yes river moon's darkest customized

723

00:33:56,149 --> 00:33:54,720

roast was created for the love of fade

724

00:33:58,789 --> 00:33:56,159

to black

725

00:34:00,070 --> 00:33:58,799

the alchemy of masterful roasting and

726

00:34:03,350 --> 00:34:00,080

smoking the beans

727

00:34:06,389 --> 00:34:03,360

is in every sip of this full-bodied dark

728

00:34:08,950 --> 00:34:06,399

java i need my coffee doc

729

00:34:09,909 --> 00:34:08,960

deep with distinct bittersweet chocolate

730

00:34:12,470 --> 00:34:09,919

highlights

731

00:34:15,030 --> 00:34:12,480

just like the bunker leaning further

732

00:34:16,470 --> 00:34:15,040

into the darkness of the roast is fade

733

00:34:18,869 --> 00:34:16,480

to black blend from

734

00:34:21,190 --> 00:34:18,879

river moon coffee just click on the

735

00:34:22,149 --> 00:34:21,200

banner at jimmychurchradio.com and use

736

00:34:26,629 --> 00:34:22,159

the promo code

737

00:34:30,550 --> 00:34:26,639

f2b blend for 15 off of your order today

738

00:34:32,149 --> 00:34:30,560

go back lee tappy this is jimmy church

739

00:34:34,950 --> 00:34:32,159  
of fade to black and you can get

740

00:34:35,589 --> 00:34:34,960  
our podcast for just two dollars per

741

00:34:37,109 --> 00:34:35,599  
month

742

00:34:39,869 --> 00:34:37,119  
all you have to do is click on the

743

00:34:41,349 --> 00:34:39,879  
podcast banner over at

744

00:34:43,829 --> 00:34:41,359  
[jimmychurchradio.com](http://jimmychurchradio.com)

745

00:34:44,790 --> 00:34:43,839  
omg people are jumping on board to the

746

00:34:47,589 --> 00:34:44,800  
life change tea

747

00:34:47,990 --> 00:34:47,599  
regiment brew steep and drink for a

748

00:34:50,310 --> 00:34:48,000  
gentle

749

00:34:51,109 --> 00:34:50,320  
taste great cleanse it's changing how

750

00:34:53,190 --> 00:34:51,119  
they feel

751  
00:34:55,510 --> 00:34:53,200  
see what everybody's talking about log

752  
00:34:56,550 --> 00:34:55,520  
on to get the tea.com that's get the

753  
00:34:58,230 --> 00:34:56,560  
tea.com

754  
00:35:00,150 --> 00:34:58,240  
life change tea aids in digestive

755  
00:35:00,710 --> 00:35:00,160  
slowdown and helps people get moving

756  
00:35:03,109 --> 00:35:00,720  
down a

757  
00:35:04,390 --> 00:35:03,119  
healthy path we won't make claims we'll

758  
00:35:05,750 --> 00:35:04,400  
just let you decide

759  
00:35:08,150 --> 00:35:05,760  
experience is much better than a

760  
00:35:10,630 --> 00:35:08,160  
commercial anyway if you want results

761  
00:35:12,230 --> 00:35:10,640  
log on to getthet.com and purchase your

762  
00:35:14,069 --> 00:35:12,240  
super strength cleansing tee

763  
00:35:16,230 --> 00:35:14,079

you won't be disappointed if you're

764

00:35:17,750 --> 00:35:16,240

looking for some mind body suggestions

765

00:35:20,150 --> 00:35:17,760

go to youtube and punch in the search

766

00:35:23,109 --> 00:35:20,160

bar health matters now that's health

767

00:35:23,990 --> 00:35:23,119

matters now put power into your health

768

00:35:26,710 --> 00:35:24,000

now

769

00:35:28,790 --> 00:35:26,720

so get the tea.com that's get the

770

00:35:31,190 --> 00:35:28,800

tea.com for super strength tea

771

00:35:32,790 --> 00:35:31,200

and youtube health matters now that's

772

00:35:33,670 --> 00:35:32,800

health matters now for valuable

773

00:35:36,310 --> 00:35:33,680

suggestions

774

00:35:37,190 --> 00:35:36,320

get the tea.com the tea that makes you

775

00:35:42,230 --> 00:35:37,200

go

776

00:35:49,670 --> 00:35:46,069

fade to black is not

777

00:35:51,349 --> 00:35:49,680

your father's radio show on the game

778

00:35:55,910 --> 00:35:51,359

changer radio network

779

00:35:57,990 --> 00:35:55,920

and kgra the planet

780

00:36:02,550 --> 00:35:58,000

hi this is rob reiner from anvil and

781

00:36:05,430 --> 00:36:02,560

you're listening to jimmychurchradio.com

782

00:36:11,850 --> 00:36:05,440

what's up i'm chris what up this is

783

00:36:22,950 --> 00:36:11,860

jimmy church radio

784

00:36:28,550 --> 00:36:26,390

all right welcome back fade to black i

785

00:36:30,950 --> 00:36:28,560

am your host jimmy church

786

00:36:31,910 --> 00:36:30,960

tonight walter cruttenden joins us

787

00:36:35,109 --> 00:36:31,920

tomorrow night

788

00:36:36,790 --> 00:36:35,119

dean rayden holy smokes what a week

789

00:36:38,870 --> 00:36:36,800

thursday night another fader night with

790

00:36:41,510 --> 00:36:38,880

open lines all night long

791

00:36:42,630 --> 00:36:41,520

tonight our guest is walter and we are

792

00:36:44,870 --> 00:36:42,640

going to discuss

793

00:36:46,950 --> 00:36:44,880

uh the latest research into our universe

794

00:36:49,030 --> 00:36:46,960

the milky way star systems frb's

795

00:36:51,510 --> 00:36:49,040

exoplanets physics

796

00:36:52,550 --> 00:36:51,520

we're going to get some philosophy into

797

00:36:54,550 --> 00:36:52,560

i promise

798

00:36:55,990 --> 00:36:54,560

walter is the director of the binary

799

00:36:58,390 --> 00:36:56,000

research institute

800

00:36:59,750 --> 00:36:58,400

an archaeoastronomy think tank right

801  
00:37:01,190 --> 00:36:59,760  
here in california

802  
00:37:02,950 --> 00:37:01,200  
he's the author of the book the lost

803  
00:37:05,109 --> 00:37:02,960  
year of myth and

804  
00:37:07,349 --> 00:37:05,119  
time and the award-winning documentary

805  
00:37:09,910 --> 00:37:07,359  
the great year narrated by

806  
00:37:11,750 --> 00:37:09,920  
james earl jones cruttenden's work

807  
00:37:13,270 --> 00:37:11,760  
focuses on the astronomy of ancient

808  
00:37:15,670 --> 00:37:13,280  
cultures throughout the world

809  
00:37:18,150 --> 00:37:15,680  
and their shared belief in vast cycles

810  
00:37:21,030 --> 00:37:18,160  
of time with alternating dark and golden

811  
00:37:23,030 --> 00:37:21,040  
ages all of his websites and all of his

812  
00:37:24,710 --> 00:37:23,040  
links are over at [jimmychurchradio.com](http://jimmychurchradio.com)

813  
00:37:26,950 --> 00:37:24,720

and i would like to welcome back

814

00:37:28,950 --> 00:37:26,960

to fade to black the one and only walter

815

00:37:30,710 --> 00:37:28,960

cruttenden walter good evening my man

816

00:37:32,950 --> 00:37:30,720

how you doing

817

00:37:33,829 --> 00:37:32,960

hey good jimmy how about you i'm

818

00:37:36,310 --> 00:37:33,839

fantastic

819

00:37:37,349 --> 00:37:36,320

trying to get through uh trying to get

820

00:37:39,750 --> 00:37:37,359

through this

821

00:37:42,950 --> 00:37:39,760

fresh new world that we are dealing with

822

00:37:45,109 --> 00:37:42,960

how are you in the family

823

00:37:47,589 --> 00:37:45,119

well we've probably spent more family

824

00:37:50,230 --> 00:37:47,599

time together the last three months and

825

00:37:51,670 --> 00:37:50,240

you know since the kids were little 15

826  
00:37:55,030 --> 00:37:51,680  
years ago

827  
00:37:58,069 --> 00:37:55,040  
but i've i've really uh you know

828  
00:37:59,510 --> 00:37:58,079  
learned a lot and actually i think

829  
00:38:00,470 --> 00:37:59,520  
there's a good silver lining i've

830  
00:38:03,109 --> 00:38:00,480  
enjoyed it

831  
00:38:08,310 --> 00:38:03,119  
yeah you find out you know like maybe

832  
00:38:11,430 --> 00:38:10,390  
well i'm going through this you know and

833  
00:38:14,550 --> 00:38:11,440  
you know what's funny

834  
00:38:16,470 --> 00:38:14,560  
uh you know it's an uncomfortable laugh

835  
00:38:18,230 --> 00:38:16,480  
uh from the both of us

836  
00:38:19,910 --> 00:38:18,240  
the whole the whole planet's going

837  
00:38:20,870 --> 00:38:19,920  
through what you and i are talking about

838  
00:38:23,190 --> 00:38:20,880

right now

839

00:38:24,550 --> 00:38:23,200

and and maybe just maybe there's a

840

00:38:25,990 --> 00:38:24,560

silver lining here

841

00:38:27,829 --> 00:38:26,000

you know that will come out on the other

842

00:38:29,510 --> 00:38:27,839

side uh knowing

843

00:38:32,390 --> 00:38:29,520

our loved ones and our friends and

844

00:38:34,950 --> 00:38:32,400

family uh better than before

845

00:38:35,910 --> 00:38:34,960

and and we can figure out a path forward

846

00:38:37,670 --> 00:38:35,920

but uh

847

00:38:41,349 --> 00:38:37,680

there is there's light at the end of the

848

00:38:43,910 --> 00:38:41,359

tunnel i i truly believe that

849

00:38:45,270 --> 00:38:43,920

i'm i'm with you jimmy it's things

850

00:38:47,270 --> 00:38:45,280

happen for a reason and

851  
00:38:48,870 --> 00:38:47,280  
you know we don't understand all the

852  
00:38:50,230 --> 00:38:48,880  
reasons sometimes we'll never even know

853  
00:38:52,790 --> 00:38:50,240  
all the reasons but

854  
00:38:54,550 --> 00:38:52,800  
you got to think that uh the universe is

855  
00:38:56,470 --> 00:38:54,560  
pretty amazing and there's got to be a

856  
00:38:57,030 --> 00:38:56,480  
little bit of design and purpose behind

857  
00:38:59,510 --> 00:38:57,040  
it

858  
00:39:00,069 --> 00:38:59,520  
we have we have so much to talk about

859  
00:39:02,630 --> 00:39:00,079  
tonight

860  
00:39:04,230 --> 00:39:02,640  
and um we're going to be discussing the

861  
00:39:06,550 --> 00:39:04,240  
universe in so many uh different

862  
00:39:10,790 --> 00:39:06,560  
subjects but we're also

863  
00:39:13,750 --> 00:39:10,800

uh later on in the broadcast some new

864

00:39:13,990 --> 00:39:13,760

uh chit chat popped out on the internet

865

00:39:15,750 --> 00:39:14,000

this

866

00:39:17,349 --> 00:39:15,760

week about the mayan calendar and the

867

00:39:19,589 --> 00:39:17,359

great year and

868

00:39:21,589 --> 00:39:19,599

and the re-dating of things and i found

869

00:39:22,150 --> 00:39:21,599

that pretty interesting and how strange

870

00:39:23,349 --> 00:39:22,160

that

871

00:39:25,510 --> 00:39:23,359

you and i we're going to have this

872

00:39:26,710 --> 00:39:25,520

conversation tonight so it'll be cool to

873

00:39:28,950 --> 00:39:26,720

also visit

874

00:39:30,550 --> 00:39:28,960

some of your other research and and get

875

00:39:34,150 --> 00:39:30,560

into that but i want to start

876

00:39:37,750 --> 00:39:34,160

here um i

877

00:39:39,829 --> 00:39:37,760

i began my journey into physics and

878

00:39:43,190 --> 00:39:39,839

cosmology and astronomy

879

00:39:46,710 --> 00:39:43,200

uh about 30 years ago around 1990

880

00:39:51,030 --> 00:39:46,720

and looking back it's been three decades

881

00:39:53,190 --> 00:39:51,040

but looking back at how the numbers

882

00:39:55,109 --> 00:39:53,200

have changed and how the facts and the

883

00:39:58,310 --> 00:39:55,119

data and what we understand

884

00:40:01,589 --> 00:39:58,320

have changed in in 25

885

00:40:04,790 --> 00:40:01,599

short years it's been a juggernaut

886

00:40:07,190 --> 00:40:04,800

right the information because in 1995

887

00:40:08,829 --> 00:40:07,200

there was still just our solar system

888

00:40:12,630 --> 00:40:08,839

and we hadn't discovered an

889

00:40:15,829 --> 00:40:12,640

exoplanet right that's

890

00:40:19,030 --> 00:40:15,839

you know and you we think about that

891

00:40:19,670 --> 00:40:19,040

and where we are today when did you

892

00:40:23,670 --> 00:40:19,680

start

893

00:40:27,510 --> 00:40:26,150

you know i was always interested as a

894

00:40:30,309 --> 00:40:27,520

little boy

895

00:40:32,710 --> 00:40:30,319

uh in astronomy but i just figured that

896

00:40:36,069 --> 00:40:32,720

was kind of normal you know

897

00:40:38,710 --> 00:40:36,079

but i really did read everything i could

898

00:40:40,470 --> 00:40:38,720

on it and of course you're right things

899

00:40:41,670 --> 00:40:40,480

have changed dramatically in the last

900

00:40:45,030 --> 00:40:41,680

couple of decades

901  
00:40:48,309 --> 00:40:45,040  
and you know that parallels the uh

902  
00:40:51,750 --> 00:40:48,319  
the breakthroughs in computing and

903  
00:40:54,230 --> 00:40:51,760  
um you know the internet and just

904  
00:40:56,550 --> 00:40:54,240  
we can use effectively the whole earth

905  
00:40:59,030 --> 00:40:56,560  
as a telescope now you know by

906  
00:41:00,390 --> 00:40:59,040  
having different uh vlb eye sights all

907  
00:41:03,670 --> 00:41:00,400  
around it so

908  
00:41:04,630 --> 00:41:03,680  
it's um it's amazing to read what's

909  
00:41:07,109 --> 00:41:04,640  
going on

910  
00:41:08,630 --> 00:41:07,119  
and you're right on the exoplanets

911  
00:41:11,670 --> 00:41:08,640  
because that's been

912  
00:41:13,270 --> 00:41:11,680  
a particular interest of mine um you

913  
00:41:17,190 --> 00:41:13,280

know one of the early ones found

914

00:41:21,190 --> 00:41:17,200

coincidentally was uh we nicknamed biden

915

00:41:25,589 --> 00:41:21,200

biden because it was vp

916

00:41:28,950 --> 00:41:25,599

2012 i believe is the code for it

917

00:41:33,030 --> 00:41:28,960

and since biden was the vp in

918

00:41:36,069 --> 00:41:33,040

2012 that's the nickname for it and

919

00:41:37,829 --> 00:41:36,079

isn't it funny that he's so much uh in

920

00:41:39,670 --> 00:41:37,839

the press right now

921

00:41:41,190 --> 00:41:39,680

and we're finding of course more and

922

00:41:44,950 --> 00:41:41,200

more of these

923

00:41:46,550 --> 00:41:44,960

uh exoplanets and

924

00:41:48,150 --> 00:41:46,560

it's the pattern that they fall in

925

00:41:50,390 --> 00:41:48,160

that's really

926  
00:41:52,069 --> 00:41:50,400  
spawned my work that i wrote about in

927  
00:41:53,030 --> 00:41:52,079  
lost dartmouth and time and the great

928  
00:41:57,270 --> 00:41:53,040  
year

929  
00:42:00,470 --> 00:41:57,280  
film and it's the pattern that's led

930  
00:42:03,750 --> 00:42:00,480  
uh you know the guys at caltech

931  
00:42:05,589 --> 00:42:03,760  
to to really come up with this idea that

932  
00:42:06,950 --> 00:42:05,599  
there's got to be something that creates

933  
00:42:10,230 --> 00:42:06,960  
that pattern

934  
00:42:10,630 --> 00:42:10,240  
um so as you know well they're looking

935  
00:42:13,750 --> 00:42:10,640  
for

936  
00:42:15,030 --> 00:42:13,760  
a very massive object out there to put

937  
00:42:16,790 --> 00:42:15,040  
these things

938  
00:42:19,190 --> 00:42:16,800

in the places where they are you know

939

00:42:20,710 --> 00:42:19,200

sort of uh

940

00:42:22,630 --> 00:42:20,720

they're inclined to the plane of the

941

00:42:25,190 --> 00:42:22,640

solar system they're

942

00:42:27,910 --> 00:42:25,200

uh they all have the perihelions they're

943

00:42:30,630 --> 00:42:27,920

perihelions on one side of the sun

944

00:42:32,150 --> 00:42:30,640

and it's just far far too much to be a

945

00:42:34,470 --> 00:42:32,160

coincidence

946

00:42:35,670 --> 00:42:34,480

and so this huge search is going on to

947

00:42:38,630 --> 00:42:35,680

look for what could be

948

00:42:40,630 --> 00:42:38,640

tugging them uh but they haven't found

949

00:42:43,910 --> 00:42:40,640

anything yet so

950

00:42:45,910 --> 00:42:43,920

um that's that's a lot of research that

951  
00:42:49,030 --> 00:42:45,920  
i'm reading right now yeah and

952  
00:42:51,990 --> 00:42:49,040  
one of the things that i have

953  
00:42:52,309 --> 00:42:52,000  
uh absolutely we all have by the way i'm

954  
00:42:55,910 --> 00:42:52,319  
not

955  
00:42:59,190 --> 00:42:55,920  
play uh pay

956  
00:43:01,430 --> 00:42:59,200  
close attention uh to

957  
00:43:03,670 --> 00:43:01,440  
what astrophysicists and cosmologists

958  
00:43:05,270 --> 00:43:03,680  
and astronomers are saying

959  
00:43:07,270 --> 00:43:05,280  
because they are making discoveries

960  
00:43:08,230 --> 00:43:07,280  
every single day and if you stay on top

961  
00:43:11,589 --> 00:43:08,240  
of it

962  
00:43:14,069 --> 00:43:11,599  
the ratcheting up of numbers

963  
00:43:16,150 --> 00:43:14,079

and it's all across the board the

964

00:43:19,349 --> 00:43:16,160

ratcheting up of numbers not only

965

00:43:22,390 --> 00:43:19,359

uh do we have to wrap our mind around

966

00:43:25,829 --> 00:43:22,400

that if you look up at the sky

967

00:43:26,790 --> 00:43:25,839

potentially every single star that you

968

00:43:30,309 --> 00:43:26,800

see

969

00:43:31,270 --> 00:43:30,319

has a planet every one right maybe two

970

00:43:34,309 --> 00:43:31,280

maybe three

971

00:43:36,630 --> 00:43:34,319

maybe four and we

972

00:43:37,829 --> 00:43:36,640

we always wondered about that that's one

973

00:43:39,430 --> 00:43:37,839

number that is

974

00:43:41,910 --> 00:43:39,440

it's gone through the roof to have a

975

00:43:45,109 --> 00:43:41,920

trillion planets in the milky way

976

00:43:47,270 --> 00:43:45,119

it's a it's a ginormous number but all

977

00:43:49,030 --> 00:43:47,280

the other numbers have ratcheted up too

978

00:43:50,230 --> 00:43:49,040

the size of the universe the amount of

979

00:43:52,630 --> 00:43:50,240

galaxies

980

00:43:54,309 --> 00:43:52,640

the expansion of the universe the speed

981

00:43:57,190 --> 00:43:54,319

of the expansion

982

00:43:59,430 --> 00:43:57,200

everything the numbers now are

983

00:44:02,550 --> 00:43:59,440

completely out of control

984

00:44:03,430 --> 00:44:02,560

and some say now today walter as you're

985

00:44:05,430 --> 00:44:03,440

aware of

986

00:44:07,190 --> 00:44:05,440

that some of these numbers are actually

987

00:44:09,510 --> 00:44:07,200

infinite

988

00:44:10,470 --> 00:44:09,520

right it's like wait a minute i thought

989

00:44:14,069 --> 00:44:10,480

we had a

990

00:44:16,790 --> 00:44:14,079

grasp on this infinite is a freaking big

991

00:44:18,710 --> 00:44:16,800

number isn't it

992

00:44:20,150 --> 00:44:18,720

it absolutely is and of course that's

993

00:44:23,270 --> 00:44:20,160

been a debate for

994

00:44:26,870 --> 00:44:23,280

uh hundreds of years you know what

995

00:44:30,950 --> 00:44:26,880

is the universe is it a steady state

996

00:44:34,069 --> 00:44:30,960

as uh you know newton and einstein

997

00:44:36,630 --> 00:44:34,079

believed and

998

00:44:37,670 --> 00:44:36,640

and if it's a steady state it's kind of

999

00:44:41,750 --> 00:44:37,680

easier to

1000

00:44:45,109 --> 00:44:41,760

to buy the infinite uh theory

1001

00:44:48,550 --> 00:44:45,119

but if it's expanding and

1002

00:44:51,990 --> 00:44:48,560

you know for the last 13.7 billion

1003

00:44:58,230 --> 00:44:55,910

then it has to have a beginning

1004

00:45:00,230 --> 00:44:58,240

and you can kind of go backwards and you

1005

00:45:01,430 --> 00:45:00,240

know the farther we look out in space of

1006

00:45:04,550 --> 00:45:01,440

course

1007

00:45:07,910 --> 00:45:04,560

the earlier we can view the the early

1008

00:45:11,030 --> 00:45:07,920

universe and

1009

00:45:13,270 --> 00:45:11,040

yeah it might expand out to infinity but

1010

00:45:15,430 --> 00:45:13,280

there's uh there's arguments about that

1011

00:45:18,790 --> 00:45:15,440

too you know

1012

00:45:21,750 --> 00:45:18,800

will it do that or will it um

1013

00:45:22,230 --> 00:45:21,760

effectively will gravity take over and

1014

00:45:25,270 --> 00:45:22,240

and

1015

00:45:26,950 --> 00:45:25,280

will it will it implode again on itself

1016

00:45:28,710 --> 00:45:26,960

someday so

1017

00:45:30,710 --> 00:45:28,720

well i don't know that we'll ever know

1018

00:45:32,309 --> 00:45:30,720

the answer to these questions

1019

00:45:34,150 --> 00:45:32,319

but they're fun to think about it and

1020

00:45:37,030 --> 00:45:34,160

you're absolutely right uh

1021

00:45:38,150 --> 00:45:37,040

they just keep upping the stakes in a

1022

00:45:40,550 --> 00:45:38,160

lot of these things

1023

00:45:42,230 --> 00:45:40,560

on the planets themselves you mentioned

1024

00:45:44,309 --> 00:45:42,240

uh you know

1025

00:45:45,349 --> 00:45:44,319

how many years ago four or five hundred

1026  
00:45:48,630 --> 00:45:45,359  
years ago

1027  
00:45:50,550 --> 00:45:48,640  
bruno was burned at the stake for saying

1028  
00:45:51,349 --> 00:45:50,560  
there were any planets or any beans out

1029  
00:45:53,670 --> 00:45:51,359  
there

1030  
00:45:54,630 --> 00:45:53,680  
and now we you know we're pretty widely

1031  
00:45:57,990 --> 00:45:54,640  
accepted

1032  
00:46:00,150 --> 00:45:58,000  
that the universe is uh you know just

1033  
00:46:01,109 --> 00:46:00,160  
our solar system is teaming with other

1034  
00:46:04,309 --> 00:46:01,119  
planets

1035  
00:46:07,030 --> 00:46:04,319  
and probably life too although

1036  
00:46:07,990 --> 00:46:07,040  
mainstream hasn't quite made that second

1037  
00:46:11,030 --> 00:46:08,000  
leap yet

1038  
00:46:14,309 --> 00:46:11,040

right right and the

1039

00:46:17,510 --> 00:46:14,319

uh if we go back uh

1040

00:46:18,950 --> 00:46:17,520

let's let's let's you keep i like where

1041

00:46:20,470 --> 00:46:18,960

you're going you know four or five

1042

00:46:24,309 --> 00:46:20,480

hundred years ago

1043

00:46:27,510 --> 00:46:24,319

um if we go back that far

1044

00:46:30,790 --> 00:46:27,520

the the thinkers

1045

00:46:31,750 --> 00:46:30,800

let's just qualify them like the

1046

00:46:33,349 --> 00:46:31,760

thinkers

1047

00:46:34,790 --> 00:46:33,359

that were looking up and trying to

1048

00:46:36,790 --> 00:46:34,800

figure out uh you know

1049

00:46:38,950 --> 00:46:36,800

actually what was going on was it just

1050

00:46:42,309 --> 00:46:38,960

one layer of stars

1051

00:46:45,589 --> 00:46:42,319

uh what were stars they

1052

00:46:49,030 --> 00:46:45,599

they weren't going beyond that um

1053

00:46:52,390 --> 00:46:49,040

there was uh a big event in 1572

1054

00:46:55,510 --> 00:46:52,400

which uh they called the phenomenon

1055

00:46:58,870 --> 00:46:55,520

which was an

1056

00:46:59,589 --> 00:46:58,880

exploding star in the sky but at that

1057

00:47:02,230 --> 00:46:59,599

time

1058

00:47:03,030 --> 00:47:02,240

the star just appeared and was visible

1059

00:47:05,349 --> 00:47:03,040

brightly

1060

00:47:06,069 --> 00:47:05,359

uh at night and also visible during the

1061

00:47:07,270 --> 00:47:06,079

day

1062

00:47:09,190 --> 00:47:07,280

some thought it was the star of

1063

00:47:10,550 --> 00:47:09,200

bethlehem right that was coming back and

1064

00:47:13,910 --> 00:47:10,560

this is maybe a big

1065

00:47:15,990 --> 00:47:13,920

religious event maybe uh jesus is back

1066

00:47:18,470 --> 00:47:16,000

you know whatever it may be

1067

00:47:19,270 --> 00:47:18,480

but uh they were trying to figure that

1068

00:47:23,829 --> 00:47:19,280

out

1069

00:47:27,589 --> 00:47:23,839

john d um and a couple of other

1070

00:47:28,069 --> 00:47:27,599

thinkers saw it move and then it faded

1071

00:47:31,270 --> 00:47:28,079

away

1072

00:47:34,549 --> 00:47:31,280

they watched its motion and that's

1073

00:47:37,670 --> 00:47:34,559

where the thought started

1074

00:47:39,270 --> 00:47:37,680

about maybe there's something out there

1075

00:47:41,829 --> 00:47:39,280

beyond the stars

1076  
00:47:44,230 --> 00:47:41,839  
that the stars are actually moving and

1077  
00:47:46,470 --> 00:47:44,240  
there's something beyond this layer that

1078  
00:47:49,670 --> 00:47:46,480  
we can see with our eyes

1079  
00:47:54,470 --> 00:47:49,680  
if we stop and think about that that's

1080  
00:47:57,349 --> 00:47:54,480  
philosophy and physics and astronomy

1081  
00:48:01,430 --> 00:47:57,359  
working together where today we're not

1082  
00:48:07,829 --> 00:48:04,549  
well not at all i i think you know

1083  
00:48:10,950 --> 00:48:07,839  
see the fundamental interpretation

1084  
00:48:14,390 --> 00:48:10,960  
of of the bible and and religion

1085  
00:48:17,910 --> 00:48:14,400  
at that time you know 500 years ago

1086  
00:48:21,030 --> 00:48:17,920  
um was so so fierce that

1087  
00:48:22,630 --> 00:48:21,040  
you know only the earth existed and the

1088  
00:48:26,230 --> 00:48:22,640

only beings were

1089

00:48:27,270 --> 00:48:26,240

uh here on earth that you know even when

1090

00:48:30,549 --> 00:48:27,280

copernicus

1091

00:48:30,950 --> 00:48:30,559

uh published de revolute onibus he had

1092

00:48:34,710 --> 00:48:30,960

to

1093

00:48:37,990 --> 00:48:34,720

put in this sort of precursor letter

1094

00:48:41,030 --> 00:48:38,000

uh upon sending it to the pope that uh

1095

00:48:42,870 --> 00:48:41,040

you know this is this is an idea it's

1096

00:48:45,829 --> 00:48:42,880

worthy of some merit

1097

00:48:47,430 --> 00:48:45,839

but he was very very deferential and as

1098

00:48:49,430 --> 00:48:47,440

evidenced by the fact he only published

1099

00:48:52,630 --> 00:48:49,440

it on his on his deathbed

1100

00:48:55,190 --> 00:48:52,640

so they couldn't get at him if he

1101  
00:48:57,510 --> 00:48:55,200  
if they thought he was a heretic anyway

1102  
00:49:01,349 --> 00:48:57,520  
but yeah we've gone from

1103  
00:49:04,390 --> 00:49:01,359  
from that point in time

1104  
00:49:07,430 --> 00:49:04,400  
to the present and it's just like

1105  
00:49:09,510 --> 00:49:07,440  
everything's changed all the the

1106  
00:49:11,190 --> 00:49:09,520  
paradigms have changed and

1107  
00:49:13,349 --> 00:49:11,200  
and many have come along and changed

1108  
00:49:14,470 --> 00:49:13,359  
since then i not to change the subject

1109  
00:49:16,710 --> 00:49:14,480  
too much but

1110  
00:49:18,230 --> 00:49:16,720  
you know you read about different world

1111  
00:49:22,069 --> 00:49:18,240  
views

1112  
00:49:23,190 --> 00:49:22,079  
um and of course the marxist view came

1113  
00:49:25,990 --> 00:49:23,200

along

1114

00:49:26,549 --> 00:49:26,000

uh you know early in the last century

1115

00:49:28,710 --> 00:49:26,559

and

1116

00:49:30,470 --> 00:49:28,720

of course mankind's always been looking

1117

00:49:31,990 --> 00:49:30,480

for a utopia and thought oh well that's

1118

00:49:35,030 --> 00:49:32,000

a good idea let's

1119

00:49:37,190 --> 00:49:35,040

follow karl marx and of course the

1120

00:49:39,109 --> 00:49:37,200

the way it was implemented it never ever

1121

00:49:42,390 --> 00:49:39,119

worked and a lot of people died i think

1122

00:49:45,430 --> 00:49:42,400

150 million in the process

1123

00:49:47,910 --> 00:49:45,440

so oops that that world view didn't work

1124

00:49:48,470 --> 00:49:47,920

and now there's uh there's quite a

1125

00:49:51,589 --> 00:49:48,480

debate

1126

00:49:55,589 --> 00:49:51,599

about uh you know sort of the

1127

00:50:00,150 --> 00:49:55,599

darwinian worldview versus

1128

00:50:02,630 --> 00:50:00,160

uh religious or more of a design

1129

00:50:03,589 --> 00:50:02,640

worldview and and even the biologists i

1130

00:50:05,910 --> 00:50:03,599

don't know if you

1131

00:50:07,670 --> 00:50:05,920

uh if you've had guests on there talking

1132

00:50:10,390 --> 00:50:07,680

about this but

1133

00:50:12,230 --> 00:50:10,400

they're questioning um you know some of

1134

00:50:16,390 --> 00:50:12,240

the doubts that darwin himself

1135

00:50:19,270 --> 00:50:16,400

penciled in and

1136

00:50:20,790 --> 00:50:19,280

and it looks like you know we're gonna

1137

00:50:22,390 --> 00:50:20,800

we might have

1138

00:50:24,950 --> 00:50:22,400

there's some very serious scientists

1139

00:50:28,150 --> 00:50:24,960

that are looking for

1140

00:50:28,390 --> 00:50:28,160

an alternative way to explain you know

1141

00:50:32,309 --> 00:50:28,400

the

1142

00:50:32,950 --> 00:50:32,319

cambrian period and that sort of thing

1143

00:50:36,390 --> 00:50:32,960

so

1144

00:50:39,430 --> 00:50:36,400

planet here yeah yeah

1145

00:50:41,670 --> 00:50:39,440

let's expand on that um and

1146

00:50:43,349 --> 00:50:41,680

one of the reasons why and there's a

1147

00:50:45,349 --> 00:50:43,359

multitude of reasons

1148

00:50:47,750 --> 00:50:45,359

but one of the reasons why that needs to

1149

00:50:51,150 --> 00:50:47,760

be discussed and to come into play

1150

00:50:54,470 --> 00:50:51,160

is that if we are aging our universe at

1151

00:50:57,589 --> 00:50:54,480

13.7 13.8 billion years

1152

00:50:59,910 --> 00:50:57,599

and our earth and sun you know

1153

00:51:01,990 --> 00:50:59,920

rocking right now at about five billion

1154

00:51:04,870 --> 00:51:02,000

years you know thereabouts let's

1155

00:51:05,829 --> 00:51:04,880

loosely use these numbers but these

1156

00:51:08,870 --> 00:51:05,839

these are what are

1157

00:51:12,470 --> 00:51:08,880

mentioned so often well our earth

1158

00:51:13,589 --> 00:51:12,480

is uh almost half the age of the

1159

00:51:16,390 --> 00:51:13,599

universe

1160

00:51:16,630 --> 00:51:16,400

and we know uh you know or a third you

1161

00:51:20,069 --> 00:51:16,640

know

1162

00:51:22,710 --> 00:51:20,079

roughly right um and and

1163

00:51:24,150 --> 00:51:22,720

if we go off the darwinian scale of

1164

00:51:27,510 --> 00:51:24,160

things

1165

00:51:29,829 --> 00:51:27,520

it takes life uh approximately from the

1166

00:51:33,190 --> 00:51:29,839

start and the birth of a planet

1167

00:51:34,870 --> 00:51:33,200

about five billion years to have radio

1168

00:51:36,870 --> 00:51:34,880

telescopes

1169

00:51:38,950 --> 00:51:36,880

right right that's that's it that's

1170

00:51:39,990 --> 00:51:38,960

that's that's the hard and the short of

1171

00:51:43,270 --> 00:51:40,000

it isn't it

1172

00:51:46,950 --> 00:51:43,280

well if we look at that the math doesn't

1173

00:51:47,910 --> 00:51:46,960

work then for the way darwin has

1174

00:51:49,670 --> 00:51:47,920

presented it

1175

00:51:52,230 --> 00:51:49,680

not the way that we understand we are

1176  
00:51:55,270 --> 00:51:52,240  
here now right is that the conflict that

1177  
00:52:00,230 --> 00:51:58,710  
well i i think the the main conflict in

1178  
00:52:01,349 --> 00:52:00,240  
the literature right now seems to be a

1179  
00:52:05,030 --> 00:52:01,359  
little bit

1180  
00:52:07,190 --> 00:52:05,040  
uh more fundamental and that is that

1181  
00:52:08,150 --> 00:52:07,200  
um you know darwin was a brilliant guy

1182  
00:52:11,510 --> 00:52:08,160  
for sure

1183  
00:52:14,309 --> 00:52:11,520  
and he he did come up with this

1184  
00:52:15,990 --> 00:52:14,319  
that this idea of adaption of the

1185  
00:52:18,790 --> 00:52:16,000  
species

1186  
00:52:20,870 --> 00:52:18,800  
and they and there's no question that

1187  
00:52:22,309 --> 00:52:20,880  
you know animals grow thicker fur when

1188  
00:52:24,549 --> 00:52:22,319

they're in cold climates for long

1189

00:52:27,190 --> 00:52:24,559

periods of times birds beaks will

1190

00:52:28,630 --> 00:52:27,200

elongate uh from generation to

1191

00:52:31,270 --> 00:52:28,640

generation to get

1192

00:52:31,990 --> 00:52:31,280

uh you know food that's hard to get at

1193

00:52:35,349 --> 00:52:32,000

and things like

1194

00:52:36,309 --> 00:52:35,359

this and but but he then sort of jumped

1195

00:52:39,750 --> 00:52:36,319

to

1196

00:52:43,190 --> 00:52:39,760

uh and through that process you can make

1197

00:52:45,349 --> 00:52:43,200

a whole new species and

1198

00:52:47,349 --> 00:52:45,359

and this is where the biologists now

1199

00:52:48,790 --> 00:52:47,359

have been thinking about it and a lot of

1200

00:52:51,349 --> 00:52:48,800

evidence has come in

1201  
00:52:52,549 --> 00:52:51,359  
since including the whole idea of of a

1202  
00:52:55,510 --> 00:52:52,559  
genome and a

1203  
00:52:56,309 --> 00:52:55,520  
you know uh and dna and that there's

1204  
00:52:59,430 --> 00:52:56,319  
actually

1205  
00:53:02,150 --> 00:52:59,440  
any change that comes along to create an

1206  
00:53:06,150 --> 00:53:02,160  
animal has to first be in the code

1207  
00:53:09,829 --> 00:53:06,160  
and so many biologists

1208  
00:53:11,430 --> 00:53:09,839  
question if you can uh make that many

1209  
00:53:15,270 --> 00:53:11,440  
changes if you have enough time

1210  
00:53:17,109 --> 00:53:15,280  
to create whole new species and

1211  
00:53:19,109 --> 00:53:17,119  
during the pre-cambrian period of course

1212  
00:53:22,870 --> 00:53:19,119  
you had a whole bunch of

1213  
00:53:24,390 --> 00:53:22,880

species come onto the scene

1214

00:53:26,309 --> 00:53:24,400

and some of these were discovered in

1215

00:53:28,390 --> 00:53:26,319

darwin's time although not a

1216

00:53:30,150 --> 00:53:28,400

not even a fraction of what we know now

1217

00:53:33,430 --> 00:53:30,160

and darwin always figured that

1218

00:53:35,589 --> 00:53:33,440

well the in time we'll we'll find more

1219

00:53:39,109 --> 00:53:35,599

fossils the fossil record will

1220

00:53:41,910 --> 00:53:39,119

show that these two slowly

1221

00:53:42,630 --> 00:53:41,920

adapted into the species they are you

1222

00:53:44,710 --> 00:53:42,640

know

1223

00:53:47,109 --> 00:53:44,720

so he left open this idea that you had

1224

00:53:50,150 --> 00:53:47,119

to find all these missing links

1225

00:53:52,630 --> 00:53:50,160

and not only haven't we found

1226  
00:53:53,910 --> 00:53:52,640  
missing links for that whole period but

1227  
00:53:56,790 --> 00:53:53,920  
we're

1228  
00:53:57,910 --> 00:53:56,800  
we found more species and we've realized

1229  
00:54:01,349 --> 00:53:57,920  
you know

1230  
00:54:01,750 --> 00:54:01,359  
that that that species can't form unless

1231  
00:54:03,670 --> 00:54:01,760  
they

1232  
00:54:05,670 --> 00:54:03,680  
first sort of first have the digital

1233  
00:54:08,309 --> 00:54:05,680  
code and that takes

1234  
00:54:09,270 --> 00:54:08,319  
just eons of time to do right and so

1235  
00:54:11,190 --> 00:54:09,280  
this is why the

1236  
00:54:13,430 --> 00:54:11,200  
sort of the two groups that are

1237  
00:54:15,670 --> 00:54:13,440  
questioning it um

1238  
00:54:16,549 --> 00:54:15,680

and that doesn't mean they're embracing

1239

00:54:18,870 --> 00:54:16,559

god or

1240

00:54:20,470 --> 00:54:18,880

intelligent design or something but they

1241

00:54:23,670 --> 00:54:20,480

are just saying

1242

00:54:25,670 --> 00:54:23,680

these problems are unresolved and so we

1243

00:54:27,750 --> 00:54:25,680

we need something else besides what

1244

00:54:29,270 --> 00:54:27,760

darwin gave us

1245

00:54:30,870 --> 00:54:29,280

and it's the mathematicians and the

1246

00:54:35,670 --> 00:54:30,880

biologists right now yeah

1247

00:54:37,910 --> 00:54:35,680

and these concepts all of them

1248

00:54:38,870 --> 00:54:37,920

not only apply to us because we live

1249

00:54:40,950 --> 00:54:38,880

here

1250

00:54:42,549 --> 00:54:40,960

but they certainly must apply to the

1251

00:54:45,990 --> 00:54:42,559

rest of the universe

1252

00:54:49,030 --> 00:54:46,000

chemistry is chemistry right

1253

00:54:51,430 --> 00:54:49,040

time is time planets or planets

1254

00:54:53,589 --> 00:54:51,440

these anything that we would discuss

1255

00:54:55,589 --> 00:54:53,599

here

1256

00:54:57,430 --> 00:54:55,599

it's the same chemistry in different

1257

00:54:58,470 --> 00:54:57,440

star systems not only throughout the

1258

00:55:00,309 --> 00:54:58,480

milky way

1259

00:55:02,230 --> 00:55:00,319

but throughout the rest of the universe

1260

00:55:05,030 --> 00:55:02,240

unless the laws of physics

1261

00:55:05,990 --> 00:55:05,040

are different uh you know star system to

1262

00:55:09,829 --> 00:55:06,000

star system

1263

00:55:12,069 --> 00:55:09,839

and i don't think that that is the case

1264

00:55:13,750 --> 00:55:12,079

yeah of course we don't know but you can

1265

00:55:17,109 --> 00:55:13,760

imagine that

1266

00:55:19,430 --> 00:55:17,119

the big physics laws are

1267

00:55:20,630 --> 00:55:19,440

inherent elsewhere in the universe and

1268

00:55:23,990 --> 00:55:20,640

of course when we

1269

00:55:27,270 --> 00:55:24,000

look at very distant star systems we

1270

00:55:28,630 --> 00:55:27,280

we use them and you know uh like gravity

1271

00:55:31,270 --> 00:55:28,640

we think is

1272

00:55:32,230 --> 00:55:31,280

is is pretty applicable no matter where

1273

00:55:35,349 --> 00:55:32,240

you look

1274

00:55:37,349 --> 00:55:35,359

uh but chemical reactions i i don't know

1275

00:55:40,470 --> 00:55:37,359

there's probably a lot that we

1276

00:55:42,870 --> 00:55:40,480

uh haven't discovered yet just

1277

00:55:44,230 --> 00:55:42,880

you know and that that could be very

1278

00:55:46,390 --> 00:55:44,240

different on

1279

00:55:47,430 --> 00:55:46,400

on methane planets and completely

1280

00:55:50,390 --> 00:55:47,440

different planets

1281

00:55:51,589 --> 00:55:50,400

even our definition of life you know uh

1282

00:55:54,950 --> 00:55:51,599

we tend to think of

1283

00:55:57,270 --> 00:55:54,960

you know a warm-blooded

1284

00:55:57,990 --> 00:55:57,280

creature like us or some other lower

1285

00:56:01,589 --> 00:55:58,000

form of life

1286

00:56:04,230 --> 00:56:01,599

might be cold-blooded but it has

1287

00:56:06,230 --> 00:56:04,240

certain qualifications and we would

1288

00:56:09,750 --> 00:56:06,240

never think that it could live

1289

00:56:13,270 --> 00:56:09,760

in a uh you know in a hazardous

1290

00:56:14,710 --> 00:56:13,280

hospital right exactly but that's

1291

00:56:16,710 --> 00:56:14,720

that's what they found of course at the

1292

00:56:19,750 --> 00:56:16,720

bottom of the ocean and so

1293

00:56:21,190 --> 00:56:19,760

um swedenborg emmanuel swedenborg

1294

00:56:22,950 --> 00:56:21,200

actually talked about this

1295

00:56:25,109 --> 00:56:22,960

you know going back several hundred

1296

00:56:27,270 --> 00:56:25,119

years uh

1297

00:56:29,030 --> 00:56:27,280

and he was just speculating at the time

1298

00:56:30,549 --> 00:56:29,040

but wrote beautifully on it that

1299

00:56:33,430 --> 00:56:30,559

you know there's probably a lot of other

1300

00:56:37,349 --> 00:56:33,440

planets and there's many other beans

1301

00:56:39,510 --> 00:56:37,359

and he was sort of a spiritual guy and

1302

00:56:41,589 --> 00:56:39,520

and so he actually talked about beans on

1303

00:56:43,270 --> 00:56:41,599

the sun and every planet on earth

1304

00:56:44,789 --> 00:56:43,280

i'm sorry every planet in the solar

1305

00:56:48,630 --> 00:56:44,799

system and so

1306

00:56:51,270 --> 00:56:48,640

uh i would imagine uh

1307

00:56:52,390 --> 00:56:51,280

it sounded really far out at the time

1308

00:56:54,390 --> 00:56:52,400

and yet

1309

00:56:55,589 --> 00:56:54,400

i would imagine that the next 50 or 100

1310

00:56:58,630 --> 00:56:55,599

years will bring

1311

00:57:00,230 --> 00:56:58,640

evidence that not only are there

1312

00:57:02,069 --> 00:57:00,240

other forms of life out there but

1313

00:57:03,510 --> 00:57:02,079

there's a lot of other forms of life

1314

00:57:05,630 --> 00:57:03,520

in different environments than we

1315

00:57:08,390 --> 00:57:05,640

currently believe when uh

1316

00:57:11,990 --> 00:57:08,400

panspermia was made

1317

00:57:14,069 --> 00:57:12,000

uh a part of our pop culture in the 60s

1318

00:57:16,710 --> 00:57:14,079

and 70s

1319

00:57:17,349 --> 00:57:16,720

it was a pretty exciting conversation

1320

00:57:21,030 --> 00:57:17,359

and

1321

00:57:22,789 --> 00:57:21,040

one that you know needs to uh constantly

1322

00:57:26,470 --> 00:57:22,799

be discussed we can't let that go

1323

00:57:30,069 --> 00:57:26,480

but a meteorite

1324

00:57:32,150 --> 00:57:30,079

hit the planet last year and the press

1325

00:57:33,990 --> 00:57:32,160

release on it was pretty extraordinary

1326  
00:57:37,589 --> 00:57:34,000  
walter i'm sitting there reading it they

1327  
00:57:41,270 --> 00:57:37,599  
found on this meteorite the two

1328  
00:57:44,390 --> 00:57:41,280  
fundamental sugars for rna

1329  
00:57:45,030 --> 00:57:44,400  
right i'm just like well there's your

1330  
00:57:48,069 --> 00:57:45,040  
answer

1331  
00:57:51,589 --> 00:57:48,079  
there it's just yeah

1332  
00:57:53,589 --> 00:57:51,599  
if if if we need to go there

1333  
00:57:54,950 --> 00:57:53,599  
and and we start to think how the

1334  
00:57:58,549 --> 00:57:54,960  
seeding could happen and

1335  
00:58:01,430 --> 00:57:58,559  
how miraculously rna and dna

1336  
00:58:02,150 --> 00:58:01,440  
and these complex things happen here

1337  
00:58:04,630 --> 00:58:02,160  
well

1338  
00:58:06,230 --> 00:58:04,640

apparently there's meteorites you know

1339

00:58:08,630 --> 00:58:06,240

with the two things that you have to

1340

00:58:11,829 --> 00:58:08,640

have for the creation of rna

1341

00:58:13,910 --> 00:58:11,839

on them and and landing on planets

1342

00:58:16,069 --> 00:58:13,920

and in the right the right environment

1343

00:58:18,390 --> 00:58:16,079

like you're saying the right environment

1344

00:58:19,349 --> 00:58:18,400

magic happens uh we need to take a break

1345

00:58:21,589 --> 00:58:19,359

right here

1346

00:58:24,309 --> 00:58:21,599

our guest tonight is walter cruttenton

1347

00:58:26,789 --> 00:58:24,319

tonight we are going to be discussing

1348

00:58:28,230 --> 00:58:26,799

all of the universe all of his latest

1349

00:58:29,190 --> 00:58:28,240

research we're going to discuss the

1350

00:58:31,349 --> 00:58:29,200

milky way

1351  
00:58:33,670 --> 00:58:31,359  
star systems fast radio bursts

1352  
00:58:35,109 --> 00:58:33,680  
exoplanets physics and philosophy i am

1353  
00:58:37,190 --> 00:58:35,119  
your host jimmy church

1354  
00:58:38,309 --> 00:58:37,200  
this is fade to black and the game

1355  
00:58:41,589 --> 00:58:38,319  
changer network

1356  
00:58:53,290 --> 00:58:41,599  
and kgra the planet more with walter

1357  
00:58:53,300 --> 00:59:02,829  
[Music]

1358  
00:59:06,470 --> 00:59:04,230  
so

1359  
00:59:08,789 --> 00:59:06,480  
this is fade to black with jimmy church

1360  
00:59:13,750 --> 00:59:08,799  
on the game changer radio network

1361  
00:59:16,309 --> 00:59:13,760  
and kgra the global radio alliance

1362  
00:59:17,270 --> 00:59:16,319  
this is kgra digital broadcasting

1363  
00:59:21,750 --> 00:59:17,280

station

1364

00:59:23,750 --> 00:59:21,760

salt lake city utah van buren arkansas

1365

00:59:25,349 --> 00:59:23,760

hello my name is billy carson and i'm a

1366

00:59:27,109 --> 00:59:25,359

best-selling author and the founder of

1367

00:59:28,710 --> 00:59:27,119

forbidden knowledge dot tv

1368

00:59:30,950 --> 00:59:28,720

together with my team we have built a

1369

00:59:32,549 --> 00:59:30,960

all new contest streaming tv platform

1370

00:59:33,109 --> 00:59:32,559

designed with every family member in

1371

00:59:34,630 --> 00:59:33,119

mind

1372

00:59:36,309 --> 00:59:34,640

if you have ever wanted to travel the

1373

00:59:37,750 --> 00:59:36,319

world and attend lectures and workshops

1374

00:59:38,390 --> 00:59:37,760

from your favorite speakers but weren't

1375

00:59:41,109 --> 00:59:38,400

able to

1376  
00:59:41,750 --> 00:59:41,119  
look no further forbidden knowledge dot

1377  
00:59:43,430 --> 00:59:41,760  
tv

1378  
00:59:45,270 --> 00:59:43,440  
there are dozens of workshops and

1379  
00:59:47,349 --> 00:59:45,280  
lectures from speakers you know and love

1380  
00:59:49,270 --> 00:59:47,359  
we have also included amazing categories

1381  
00:59:51,109 --> 00:59:49,280  
to assure that your consciousness is

1382  
00:59:51,750 --> 00:59:51,119  
entertained and elevating on a daily

1383  
00:59:53,829 --> 00:59:51,760  
basis

1384  
00:59:55,030 --> 00:59:53,839  
amazing interviews ancient history

1385  
00:59:57,030 --> 00:59:55,040  
ascension knowledge

1386  
00:59:58,230 --> 00:59:57,040  
wisdom teachings documentaries

1387  
01:00:00,470 --> 00:59:58,240  
conspiracies

1388  
01:00:02,390 --> 01:00:00,480

mysteries health and fitness conscious

1389

01:00:04,549 --> 01:00:02,400

cooking meditations finance

1390

01:00:06,870 --> 01:00:04,559

yoga and so much more to start your free

1391

01:00:09,589 --> 01:00:06,880

trial on any mobile device or computer

1392

01:00:11,270 --> 01:00:09,599

surf to forbidden knowledge dot tv

1393

01:00:13,349 --> 01:00:11,280

that's forbidden knowledge with the

1394

01:00:16,069 --> 01:00:13,359

number four forbidden knowledge

1395

01:00:16,870 --> 01:00:16,079

dot tv again visit forbidden knowledge

1396

01:00:21,270 --> 01:00:16,880

dot tv

1397

01:00:24,390 --> 01:00:21,280

today introducing the new

1398

01:00:25,990 --> 01:00:24,400

surfer music app listen fate or not you

1399

01:00:29,990 --> 01:00:26,000

know i love my music

1400

01:00:32,309 --> 01:00:30,000

this is my go-to for all things notes

1401  
01:00:33,349 --> 01:00:32,319  
the surfer app is a brand new concept in

1402  
01:00:35,589 --> 01:00:33,359  
music listening

1403  
01:00:37,750 --> 01:00:35,599  
surfer is free providing unlimited

1404  
01:00:39,030 --> 01:00:37,760  
access to thousands of live streaming

1405  
01:00:40,870 --> 01:00:39,040  
radio stations

1406  
01:00:42,309 --> 01:00:40,880  
surfer is an exciting interactive

1407  
01:00:44,470 --> 01:00:42,319  
listening experience

1408  
01:00:45,670 --> 01:00:44,480  
discovery and surprise are built right

1409  
01:00:47,910 --> 01:00:45,680  
in surfer

1410  
01:00:48,870 --> 01:00:47,920  
is your destination to discover and

1411  
01:00:51,829 --> 01:00:48,880  
rediscover

1412  
01:00:53,670 --> 01:00:51,839  
great live streaming music it features

1413  
01:00:55,670 --> 01:00:53,680

high quality audio streams

1414

01:00:57,510 --> 01:00:55,680

free access to music from thousands of

1415

01:01:00,150 --> 01:00:57,520

live streaming radio stations

1416

01:01:02,549 --> 01:01:00,160

unlimited listening unlimited skipping

1417

01:01:04,630 --> 01:01:02,559

you get a music visualizer and you can

1418

01:01:07,030 --> 01:01:04,640

also select your favorite channels

1419

01:01:07,910 --> 01:01:07,040

get it at the apple app store or google

1420

01:01:10,549 --> 01:01:07,920

play just

1421

01:01:13,349 --> 01:01:10,559

search surfer music or click on the

1422

01:01:15,290 --> 01:01:13,359

surfer banner at jimmychurchradio.com

1423

01:01:17,589 --> 01:01:15,300

go back lee taffy

1424

01:01:20,390 --> 01:01:17,599

[Music]

1425

01:01:21,270 --> 01:01:20,400

okay let's get this man to the er stat

1426

01:01:23,510 --> 01:01:21,280

right away doctor

1427

01:01:25,910 --> 01:01:23,520

we see this every day heart attack or

1428

01:01:26,630 --> 01:01:25,920

angina pain due to blocked and clogged

1429

01:01:28,870 --> 01:01:26,640

arteries

1430

01:01:30,950 --> 01:01:28,880

chelation can remove obstructions or

1431

01:01:32,870 --> 01:01:30,960

blockages from arteries and help avoid

1432

01:01:35,430 --> 01:01:32,880

painful and expensive surgery

1433

01:01:37,109 --> 01:01:35,440

now there's angioprim it's a liquid oral

1434

01:01:37,589 --> 01:01:37,119

chelation product that you take with

1435

01:01:39,750 --> 01:01:37,599

juice

1436

01:01:42,069 --> 01:01:39,760

you start to feel the results fast

1437

01:01:43,990 --> 01:01:42,079

angioprim increases blood flow all over

1438

01:01:45,910 --> 01:01:44,000

the body and that means more energy

1439

01:01:47,349 --> 01:01:45,920

and strength to take on the day with

1440

01:01:49,430 --> 01:01:47,359

less aches and pains

1441

01:01:50,549 --> 01:01:49,440

60 years of research has gone into

1442

01:01:53,510 --> 01:01:50,559

chelation and

1443

01:01:54,150 --> 01:01:53,520

angioprim is the result a safe and easy

1444

01:01:56,069 --> 01:01:54,160

way to

1445

01:01:57,190 --> 01:01:56,079

unblock your veins and arteries from

1446

01:01:59,589 --> 01:01:57,200

build up that slow

1447

01:02:00,789 --> 01:01:59,599

circulation dr jones please report to

1448

01:02:03,990 --> 01:02:00,799

the emergency room right away

1449

01:02:08,230 --> 01:02:04,000

log on now to [angioprim.com](http://angioprim.com) that's a

1450

01:02:08,950 --> 01:02:08,240

n g i o i or to speak with a trained

1451

01:02:13,589 --> 01:02:08,960

consultant

1452

01:02:18,950 --> 01:02:13,599

give angioprim a call at 954-882-7221

1453

01:02:24,710 --> 01:02:20,309

you're listening to my 954-882-7221 man

1454

01:02:26,630 --> 01:02:24,720

jimmy church on jimmychurchradio.com

1455

01:02:28,470 --> 01:02:26,640

hi this is ray sobs here repping the

1456

01:02:29,109 --> 01:02:28,480

planet and you're listening to my good

1457

01:02:31,990 --> 01:02:29,119

friend

1458

01:02:34,630 --> 01:02:32,000

jimmy church fade to black on the game

1459

01:02:37,750 --> 01:02:34,640

changer network and the kgra digital

1460

01:02:40,829 --> 01:02:37,760

broadcast station

1461

01:02:42,069 --> 01:02:40,839

this is toby kebbel you're listening to

1462

01:02:45,029 --> 01:02:42,079

jimmychurchradio.com

1463

01:02:46,230 --> 01:02:45,039

don't hurt me jimmy i'm only little hey

1464

01:02:48,069 --> 01:02:46,240

i'm adrian grenier

1465

01:02:52,549 --> 01:02:48,079

and this is ari gold we're the honey

1466

01:02:56,549 --> 01:02:54,950

hey i'm adrian grenier and i'm ari gold

1467

01:02:58,789 --> 01:02:56,559

we're the honey brothers

1468

01:03:00,390 --> 01:02:58,799

and you're listening to jimmy church a

1469

01:03:02,069 --> 01:03:00,400

revolution

1470

01:03:03,990 --> 01:03:02,079

this is jimmy church of fade to black

1471

01:03:06,309 --> 01:03:04,000

and you can become an official fate or

1472

01:03:07,270 --> 01:03:06,319

not by just going to our membership

1473

01:03:10,630 --> 01:03:07,280

section

1474

01:03:12,630 --> 01:03:10,640

at jimmychurchradio.com

1475

01:03:14,150 --> 01:03:12,640

hello this is serena wright taylor from

1476

01:03:15,990 --> 01:03:14,160

conscious life expo

1477

01:03:18,230 --> 01:03:16,000

and you're listening to fade to black

1478

01:03:20,470 --> 01:03:18,240

with jimmy church who holds the lucky

1479

01:03:20,950 --> 01:03:20,480

pony record for the best astrological

1480

01:03:25,109 --> 01:03:20,960

chart

1481

01:03:26,789 --> 01:03:25,119

since 1963. true story

1482

01:03:28,470 --> 01:03:26,799

this is micah hanks of the ghrelian

1483

01:03:30,789 --> 01:03:28,480

report and you're listening to jimmy

1484

01:03:32,710 --> 01:03:30,799

church on fade to black across the globe

1485

01:03:33,670 --> 01:03:32,720

on the game changer radio network and

1486

01:03:45,290 --> 01:03:33,680

the one and only

1487

01:03:56,150 --> 01:03:45,300

kgra radio the planet

1488

01:03:57,750 --> 01:03:56,160

[Music]

1489

01:03:59,270 --> 01:03:57,760

welcome back fade to black i am your

1490

01:04:02,940 --> 01:03:59,280

host jimmy church tonight our guest

1491

01:04:04,710 --> 01:04:02,950

walter cruttenton we are discussing us

1492

01:04:08,870 --> 01:04:04,720

[Music]

1493

01:04:11,270 --> 01:04:08,880

the universe it's a big subject and

1494

01:04:12,069 --> 01:04:11,280

i'm gonna get right back to where we

1495

01:04:14,470 --> 01:04:12,079

left off

1496

01:04:15,349 --> 01:04:14,480

uh right before the break walter and

1497

01:04:19,270 --> 01:04:15,359

talking about

1498

01:04:21,990 --> 01:04:19,280

uh time constraints of mass extinction

1499

01:04:23,270 --> 01:04:22,000

events and bringing darwin into play and

1500

01:04:27,190 --> 01:04:23,280

then of course

1501  
01:04:28,710 --> 01:04:27,200  
uh the question of uh intelligent design

1502  
01:04:31,750 --> 01:04:28,720  
grand design

1503  
01:04:33,029 --> 01:04:31,760  
uh god religion spirituality and

1504  
01:04:36,470 --> 01:04:33,039  
philosophy all these

1505  
01:04:39,430 --> 01:04:36,480  
aspects uh have to come into play

1506  
01:04:40,789 --> 01:04:39,440  
but let me let me get specific on a

1507  
01:04:42,789 --> 01:04:40,799  
couple of things

1508  
01:04:45,270 --> 01:04:42,799  
uh when we talk about these mass

1509  
01:04:46,390 --> 01:04:45,280  
extinction events like the cretaceous

1510  
01:04:50,150 --> 01:04:46,400  
period

1511  
01:04:50,710 --> 01:04:50,160  
uh the last big big one 66 million years

1512  
01:04:54,549 --> 01:04:50,720  
ago

1513  
01:04:55,670 --> 01:04:54,559

that's like yesterday 76 percent of all

1514

01:04:59,109 --> 01:04:55,680

species

1515

01:05:00,630 --> 01:04:59,119

were lost and when we look at the

1516

01:05:04,230 --> 01:05:00,640

complexity

1517

01:05:07,349 --> 01:05:04,240

of what dna is and

1518

01:05:09,430 --> 01:05:07,359

the amount and variety of species

1519

01:05:10,870 --> 01:05:09,440

which we keep using the word infinite i

1520

01:05:12,789 --> 01:05:10,880

don't think we'll ever know but it's

1521

01:05:16,390 --> 01:05:12,799

it's a very big number

1522

01:05:20,069 --> 01:05:16,400

that just replaced themselves

1523

01:05:23,190 --> 01:05:20,079

in 66 million years is that enough time

1524

01:05:27,349 --> 01:05:23,200

is is life too complex here

1525

01:05:32,309 --> 01:05:27,359

on this planet to be developed in pools

1526

01:05:39,430 --> 01:05:35,349

i i think it is

1527

01:05:41,589 --> 01:05:39,440

um but i don't have the

1528

01:05:44,069 --> 01:05:41,599

the answer yet and that's why i'm

1529

01:05:44,950 --> 01:05:44,079

reading so much about the topic right

1530

01:05:48,390 --> 01:05:44,960

now

1531

01:05:51,430 --> 01:05:48,400

in uh

1532

01:05:54,710 --> 01:05:51,440

these general cycles of time

1533

01:05:56,390 --> 01:05:54,720

and i i i

1534

01:05:57,910 --> 01:05:56,400

i think we've talked about the yuvas

1535

01:06:00,230 --> 01:05:57,920

before jimmy uh

1536

01:06:01,910 --> 01:06:00,240

which is sort of an interesting way to

1537

01:06:05,029 --> 01:06:01,920

frame it but

1538

01:06:07,750 --> 01:06:05,039

um there's

1539

01:06:09,029 --> 01:06:07,760

there's the ancients tied these things

1540

01:06:12,309 --> 01:06:09,039

to celestial

1541

01:06:13,109 --> 01:06:12,319

motions and to me that's that's really

1542

01:06:15,910 --> 01:06:13,119

interesting

1543

01:06:17,990 --> 01:06:15,920

um so we all know are familiar with the

1544

01:06:20,309 --> 01:06:18,000

motion of the earth it spins on its axis

1545

01:06:21,349 --> 01:06:20,319

gives us a cycle of day and night you

1546

01:06:24,309 --> 01:06:21,359

know we're

1547

01:06:25,670 --> 01:06:24,319

during the night time we're going to the

1548

01:06:29,270 --> 01:06:25,680

subconscious

1549

01:06:30,630 --> 01:06:29,280

and we hardly even think about it

1550

01:06:32,230 --> 01:06:30,640

even though it's a completely different

1551  
01:06:33,349 --> 01:06:32,240  
world and then of course with light

1552  
01:06:36,069 --> 01:06:33,359  
again we come

1553  
01:06:39,190 --> 01:06:36,079  
back into the conscious world and

1554  
01:06:43,510 --> 01:06:41,990  
the ancients tell us that there's these

1555  
01:06:46,630 --> 01:06:43,520  
types of changes happening

1556  
01:06:48,230 --> 01:06:46,640  
on a longer term basis we know you know

1557  
01:06:50,069 --> 01:06:48,240  
the second cycle of the earth the earth

1558  
01:06:51,109 --> 01:06:50,079  
goes around the sun on a slight tilt

1559  
01:06:54,029 --> 01:06:51,119  
causes

1560  
01:06:56,150 --> 01:06:54,039  
uh increasing or decreasing amounts of

1561  
01:06:58,549 --> 01:06:56,160  
electromagnetic

1562  
01:07:00,390 --> 01:06:58,559  
radiation hitting the earth and that

1563  
01:07:03,190 --> 01:07:00,400

gives you the seasons and that causes

1564

01:07:04,390 --> 01:07:03,200

you know trillions of objects to spring

1565

01:07:07,829 --> 01:07:04,400

out of the ground bloom

1566

01:07:10,950 --> 01:07:07,839

decay and go through their cycle

1567

01:07:11,829 --> 01:07:10,960

um so they they you know many species

1568

01:07:15,510 --> 01:07:11,839

have their

1569

01:07:18,789 --> 01:07:15,520

their own little decline

1570

01:07:19,270 --> 01:07:18,799

every year if you will and then there's

1571

01:07:23,270 --> 01:07:19,280

this

1572

01:07:24,710 --> 01:07:23,280

talk about and lost our missing time and

1573

01:07:27,670 --> 01:07:24,720

the great year that we've

1574

01:07:28,069 --> 01:07:27,680

been studying does our entire solar

1575

01:07:29,990 --> 01:07:28,079

system

1576

01:07:31,349 --> 01:07:30,000

go around another star does that cause

1577

01:07:34,789 --> 01:07:31,359

an even

1578

01:07:36,309 --> 01:07:34,799

longer cycle and of course

1579

01:07:37,829 --> 01:07:36,319

you know there's over 30 ancient

1580

01:07:40,150 --> 01:07:37,839

cultures that say

1581

01:07:42,710 --> 01:07:40,160

that it does you know and they talk

1582

01:07:44,390 --> 01:07:42,720

about a long-lost golden age and the

1583

01:07:46,230 --> 01:07:44,400

greeks break it into the iron bronze

1584

01:07:47,990 --> 01:07:46,240

silver and golden age the indians break

1585

01:07:50,390 --> 01:07:48,000

it into the

1586

01:07:51,349 --> 01:07:50,400

cali drapara tread and sachi yugas and

1587

01:07:54,630 --> 01:07:51,359

they

1588

01:07:58,390 --> 01:07:54,640

tell us how very different life is in

1589

01:08:03,349 --> 01:07:58,400

in each uh epoch and

1590

01:08:05,910 --> 01:08:03,359

and so i i bring this up to say that

1591

01:08:09,510 --> 01:08:05,920

i don't think we we have the the mental

1592

01:08:12,549 --> 01:08:09,520

framework right now to really understand

1593

01:08:15,589 --> 01:08:12,559

what's gone on in the distant past

1594

01:08:18,870 --> 01:08:15,599

but the some of these

1595

01:08:20,789 --> 01:08:18,880

ancients that talk about this cycle

1596

01:08:22,789 --> 01:08:20,799

tell us that the earth goes through a

1597

01:08:25,910 --> 01:08:22,799

complete

1598

01:08:29,269 --> 01:08:25,920

change inwardly and outwardly

1599

01:08:30,709 --> 01:08:29,279

and uh what i'm really interested in

1600

01:08:33,110 --> 01:08:30,719

right now is the changes that we're

1601

01:08:36,470 --> 01:08:33,120

going through at this particular

1602

01:08:38,550 --> 01:08:36,480

time in the cycle um so can i

1603

01:08:41,030 --> 01:08:38,560

just elaborate on that point absolutely

1604

01:08:45,030 --> 01:08:41,040

i'm i'm right here with you

1605

01:08:47,669 --> 01:08:45,040

okay so uh according to

1606

01:08:48,550 --> 01:08:47,679

uh you know the vedic tradition and and

1607

01:08:51,110 --> 01:08:48,560

the greeks

1608

01:08:52,950 --> 01:08:51,120

plato called this cycle the great year

1609

01:08:54,229 --> 01:08:52,960

and it's one procession the equinox

1610

01:08:57,910 --> 01:08:54,239

which is roughly

1611

01:08:59,269 --> 01:08:57,920

24 26 000 years depending on how you

1612

01:09:02,550 --> 01:08:59,279

measure it

1613

01:09:05,749 --> 01:09:02,560

and we all agree

1614

01:09:06,070 --> 01:09:05,759

that there was a dark age you know and

1615

01:09:10,550 --> 01:09:06,080

it

1616

01:09:13,669 --> 01:09:10,560

were great civilizations that

1617

01:09:16,390 --> 01:09:13,679

that sort of melted into the dark age uh

1618

01:09:18,550 --> 01:09:16,400

beckley tepi faded the ancient egyptian

1619

01:09:21,749 --> 01:09:18,560

civilization faded all of

1620

01:09:24,709 --> 01:09:21,759

mesopotamia sumerica babylon etc

1621

01:09:25,510 --> 01:09:24,719

uh the great indus valley harappa

1622

01:09:27,269 --> 01:09:25,520

mohenjo

1623

01:09:30,390 --> 01:09:27,279

dar you know these are places that they

1624

01:09:33,030 --> 01:09:30,400

had uh

1625

01:09:33,590 --> 01:09:33,040

fantastic buildings with indoor plumbing

1626

01:09:48,950 --> 01:09:33,600

and

1627

01:09:50,550 --> 01:09:48,960

the mesopotamians for example you know

1628

01:09:52,229 --> 01:09:50,560

they had these great ziggurats and

1629

01:09:55,189 --> 01:09:52,239

hanging gardens and

1630

01:09:56,790 --> 01:09:55,199

uh fantastic cities and they you know a

1631

01:09:59,270 --> 01:09:56,800

few thousand years ago

1632

01:10:00,390 --> 01:09:59,280

uh or by the time the dark ages they

1633

01:10:03,590 --> 01:10:00,400

were

1634

01:10:07,189 --> 01:10:03,600

literally nomads uh you know in

1635

01:10:10,950 --> 01:10:07,199

tents and camels and so

1636

01:10:13,189 --> 01:10:10,960

uh it tells me that this cycle probably

1637

01:10:15,430 --> 01:10:13,199

has some reality to it

1638

01:10:16,229 --> 01:10:15,440

and and that we should study these you

1639

01:10:18,709 --> 01:10:16,239

know longer

1640

01:10:19,510 --> 01:10:18,719

motions of the earth to really better

1641

01:10:23,270 --> 01:10:19,520

understand

1642

01:10:26,310 --> 01:10:23,280

uh what's going on here on earth

1643

01:10:28,390 --> 01:10:26,320

and and they would say at this time you

1644

01:10:31,350 --> 01:10:28,400

know we've come out of the dark ages

1645

01:10:32,709 --> 01:10:31,360

we're learning how to work with finer

1646

01:10:35,270 --> 01:10:32,719

forces

1647

01:10:37,110 --> 01:10:35,280

and of course in the dark ages we only

1648

01:10:38,229 --> 01:10:37,120

could conceive of things we could touch

1649

01:10:45,430 --> 01:10:38,239

with our

1650

01:10:47,270 --> 01:10:45,440

and um and then with

1651

01:10:50,149 --> 01:10:47,280

with the sort of the renaissance which

1652

01:10:52,550 --> 01:10:50,159

actually means rebirth rebirth the cycle

1653

01:10:54,310 --> 01:10:52,560

uh we discover you know the things

1654

01:10:55,990 --> 01:10:54,320

aren't so solid after all that

1655

01:10:57,430 --> 01:10:56,000

solid things are made out of molecules

1656

01:10:58,470 --> 01:10:57,440

and those molecules are made out of

1657

01:10:59,910 --> 01:10:58,480

atoms and

1658

01:11:01,830 --> 01:10:59,920

but you know the atoms are made of

1659

01:11:02,470 --> 01:11:01,840

electrons and neutrons and protons and

1660

01:11:08,870 --> 01:11:02,480

they're

1661

01:11:10,830 --> 01:11:08,880

so far from each other that there's

1662

01:11:12,229 --> 01:11:10,840

everything is virtually made out of

1663

01:11:14,390 --> 01:11:12,239

nothing

1664

01:11:16,709 --> 01:11:14,400

and so we're learning whole new ways to

1665

01:11:18,310 --> 01:11:16,719

look at life we're actually harnessing

1666

01:11:20,229 --> 01:11:18,320

this power you know we used to

1667

01:11:22,630 --> 01:11:20,239

communicate through

1668

01:11:23,270 --> 01:11:22,640

written letters or talking face to face

1669

01:11:26,070 --> 01:11:23,280

and now we

1670

01:11:29,189 --> 01:11:26,080

send electronics back and forth just as

1671

01:11:33,110 --> 01:11:29,199

we're doing here with this show

1672

01:11:34,630 --> 01:11:33,120

and so it's it's you know you gotta ask

1673

01:11:36,470 --> 01:11:34,640

where are we now what are we going

1674

01:11:38,390 --> 01:11:36,480

through and um

1675

01:11:40,870 --> 01:11:38,400

and that brings me to one other cycle

1676

01:11:43,189 --> 01:11:40,880

i'd love to mention

1677

01:11:45,830 --> 01:11:43,199

um and it's it's a little topical it was

1678

01:11:49,590 --> 01:11:45,840

just on cnbc

1679

01:11:51,750 --> 01:11:49,600

and it's it's the the book on this

1680

01:11:53,430 --> 01:11:51,760

topic is called the fourth turning and

1681

01:11:56,390 --> 01:11:53,440

they talk about the ciculum

1682

01:11:57,750 --> 01:11:56,400

this is a cycle that i think the term

1683

01:12:00,229 --> 01:11:57,760

comes from uh

1684

01:12:01,110 --> 01:12:00,239

before the romans i think it might be

1685

01:12:07,189 --> 01:12:01,120

the

1686

01:12:07,590 --> 01:12:07,199

but anyway it goes very far back and and

1687

01:12:13,669 --> 01:12:07,600

one

1688

01:12:15,189 --> 01:12:13,679

so it's not not just a generation of 20

1689

01:12:19,110 --> 01:12:15,199

years or so

1690

01:12:20,790 --> 01:12:19,120

uh 25 years but uh when the entire

1691

01:12:23,189 --> 01:12:20,800

population of the earth

1692

01:12:25,189 --> 01:12:23,199

uh you know is born and then dies again

1693

01:12:28,550 --> 01:12:25,199

that is roughly a seculum

1694

01:12:31,669 --> 01:12:28,560

and why it's important is because

1695

01:12:34,070 --> 01:12:31,679

during that period of time even though

1696

01:12:38,070 --> 01:12:34,080

we might be in a rising age

1697

01:12:41,590 --> 01:12:38,080

knowledge is lost and uh

1698

01:12:42,950 --> 01:12:41,600

and so the the four turnings they talk

1699

01:12:45,590 --> 01:12:42,960

about is in the

1700

01:12:46,390 --> 01:12:45,600

in the really tough times the children

1701  
01:12:49,350 --> 01:12:46,400  
of that

1702  
01:12:50,709 --> 01:12:49,360  
time period uh you know are growing up

1703  
01:12:52,950 --> 01:12:50,719  
in very

1704  
01:12:54,229 --> 01:12:52,960  
harsh and practical circumstances so

1705  
01:12:55,910 --> 01:12:54,239  
they have to be

1706  
01:12:57,590 --> 01:12:55,920  
very practical about things and

1707  
01:12:58,950 --> 01:12:57,600  
governments have to be very practical

1708  
01:13:01,350 --> 01:12:58,960  
about things

1709  
01:13:02,149 --> 01:13:01,360  
but their children they can relax a

1710  
01:13:06,630 --> 01:13:02,159  
little bit

1711  
01:13:09,910 --> 01:13:06,640  
and have have uh you know more

1712  
01:13:11,990 --> 01:13:09,920  
liberal uh societies

1713  
01:13:13,590 --> 01:13:12,000

and and then this goes on of course the

1714

01:13:15,910 --> 01:13:13,600

children of those children

1715

01:13:17,910 --> 01:13:15,920

kind of get a little out of touch with

1716

01:13:18,550 --> 01:13:17,920

you know even the need for balance

1717

01:13:21,430 --> 01:13:18,560

budgets

1718

01:13:22,149 --> 01:13:21,440

or uh or good governance and things like

1719

01:13:25,430 --> 01:13:22,159

that

1720

01:13:29,270 --> 01:13:25,440

uh and they they start uh

1721

01:13:31,830 --> 01:13:29,280

going down all sorts of tangents and so

1722

01:13:33,030 --> 01:13:31,840

the guy the main author of this book

1723

01:13:35,669 --> 01:13:33,040

neil howe

1724

01:13:38,229 --> 01:13:35,679

he was just recently on cnbc but i had

1725

01:13:40,390 --> 01:13:38,239

listened to him in 1997

1726

01:13:41,750 --> 01:13:40,400

uh when his book came out or just a

1727

01:13:43,990 --> 01:13:41,760

couple years after

1728

01:13:46,470 --> 01:13:44,000

and he was saying yeah we'll have be

1729

01:13:49,830 --> 01:13:46,480

ready for the next turning around

1730

01:13:52,630 --> 01:13:49,840

2020 or so and i said well

1731

01:13:53,270 --> 01:13:52,640

golly i hope i remember this and sure

1732

01:13:57,110 --> 01:13:53,280

enough

1733

01:13:58,550 --> 01:13:57,120

uh you know he says you kind of have to

1734

01:14:01,750 --> 01:13:58,560

go through

1735

01:14:03,590 --> 01:14:01,760

winters uh just to sort of

1736

01:14:05,030 --> 01:14:03,600

rationalize everything and get things

1737

01:14:08,229 --> 01:14:05,040

back to

1738

01:14:09,669 --> 01:14:08,239

to a healthy balance and

1739

01:14:11,270 --> 01:14:09,679

and it doesn't mean that everyone's

1740

01:14:14,790 --> 01:14:11,280

going to be in trouble or you

1741

01:14:16,870 --> 01:14:14,800

you have to have you know just

1742

01:14:18,149 --> 01:14:16,880

devastating depressions but he does say

1743

01:14:20,550 --> 01:14:18,159

that a lot of

1744

01:14:21,189 --> 01:14:20,560

things are going to happen and and there

1745

01:14:23,669 --> 01:14:21,199

will be

1746

01:14:24,870 --> 01:14:23,679

some tough circumstances for many but it

1747

01:14:28,070 --> 01:14:24,880

will also result

1748

01:14:30,709 --> 01:14:28,080

in sort of the next turn when when

1749

01:14:31,270 --> 01:14:30,719

we all get more practical well because

1750

01:14:37,030 --> 01:14:31,280

you have to

1751  
01:14:37,830 --> 01:14:37,040  
experiences like at the beginning of the

1752  
01:14:41,590 --> 01:14:37,840  
seculum

1753  
01:14:42,149 --> 01:14:41,600  
right and yeah it's a certain experience

1754  
01:14:45,189 --> 01:14:42,159  
uh

1755  
01:14:46,550 --> 01:14:45,199  
the the children at the end absolutely

1756  
01:14:48,709 --> 01:14:46,560  
are going through a kind

1757  
01:14:50,229 --> 01:14:48,719  
or gentler experience because of what

1758  
01:14:53,669 --> 01:14:50,239  
came before

1759  
01:14:57,270 --> 01:14:53,679  
and if if that generation dies out

1760  
01:15:00,229 --> 01:14:57,280  
you don't have the experiences

1761  
01:15:01,590 --> 01:15:00,239  
from the beginning of the seculum and

1762  
01:15:03,990 --> 01:15:01,600  
it's a fascinating

1763  
01:15:04,709 --> 01:15:04,000

fascinating way to look at things

1764

01:15:06,470 --> 01:15:04,719

because

1765

01:15:07,910 --> 01:15:06,480

you're right that knowledge those

1766

01:15:10,709 --> 01:15:07,920

experiences

1767

01:15:11,590 --> 01:15:10,719

is gone right you don't have the people

1768

01:15:15,510 --> 01:15:11,600

around to

1769

01:15:16,310 --> 01:15:15,520

communicate with you those experiences

1770

01:15:19,430 --> 01:15:16,320

because those

1771

01:15:21,990 --> 01:15:19,440

experiences have died with those that

1772

01:15:24,470 --> 01:15:22,000

carried them right

1773

01:15:26,550 --> 01:15:24,480

very much so and uh you know many people

1774

01:15:28,070 --> 01:15:26,560

have talked about it including churchill

1775

01:15:29,990 --> 01:15:28,080

you know if you forget your histories

1776

01:15:33,030 --> 01:15:30,000

you're destined to relive them

1777

01:15:34,870 --> 01:15:33,040

and and so it is i think with us to some

1778

01:15:37,750 --> 01:15:34,880

degree now we've gotten

1779

01:15:38,709 --> 01:15:37,760

so far away from uh you know really

1780

01:15:42,229 --> 01:15:38,719

down-to-earth

1781

01:15:44,870 --> 01:15:42,239

practical uh ways of

1782

01:15:46,229 --> 01:15:44,880

government and education and and things

1783

01:15:49,430 --> 01:15:46,239

like this that

1784

01:15:51,590 --> 01:15:49,440

that we're in for some learnings and

1785

01:15:52,950 --> 01:15:51,600

you know i do think it's it's a spiral

1786

01:15:55,910 --> 01:15:52,960

thing where you know

1787

01:15:56,950 --> 01:15:55,920

hopefully with each turn you you go on

1788

01:16:01,110 --> 01:15:56,960

to uh

1789

01:16:03,189 --> 01:16:01,120

to a higher path um

1790

01:16:06,070 --> 01:16:03,199

let me let me let me stop you right

1791

01:16:10,229 --> 01:16:06,080

there walter

1792

01:16:13,350 --> 01:16:10,239

man in that you uh

1793

01:16:15,189 --> 01:16:13,360

you are a man of science you look at

1794

01:16:16,310 --> 01:16:15,199

science you study science you know the

1795

01:16:18,470 --> 01:16:16,320

history

1796

01:16:20,149 --> 01:16:18,480

you know about edwin hubble and

1797

01:16:22,229 --> 01:16:20,159

physicists in einstein

1798

01:16:23,750 --> 01:16:22,239

and in the universe you study this is

1799

01:16:27,189 --> 01:16:23,760

what you do

1800

01:16:30,550 --> 01:16:27,199

but you are also speaking about

1801

01:16:33,110 --> 01:16:30,560

a spirituality side of this

1802

01:16:35,110 --> 01:16:33,120

where most people coming from a

1803

01:16:37,990 --> 01:16:35,120

scientific background

1804

01:16:38,470 --> 01:16:38,000

that are studying the stars is a zone

1805

01:16:41,189 --> 01:16:38,480

that

1806

01:16:42,229 --> 01:16:41,199

they are reticent to go into they will

1807

01:16:43,990 --> 01:16:42,239

not

1808

01:16:45,430 --> 01:16:44,000

go into it wasn't that way in the

1809

01:16:49,030 --> 01:16:45,440

distant past

1810

01:16:50,070 --> 01:16:49,040

but that is the the method of operation

1811

01:16:52,709 --> 01:16:50,080

today

1812

01:16:54,070 --> 01:16:52,719

are you treading lightly yeah yeah yeah

1813

01:16:56,870 --> 01:16:54,080

are you treading lightly when you

1814

01:17:00,470 --> 01:16:56,880

discuss these subjects

1815

01:17:01,910 --> 01:17:00,480

uh yes because

1816

01:17:03,750 --> 01:17:01,920

you're right you know you got to be a

1817

01:17:07,990 --> 01:17:03,760

little pc out there

1818

01:17:11,430 --> 01:17:08,000

or people really will bash you and

1819

01:17:14,630 --> 01:17:11,440

you know obviously i'll talk to

1820

01:17:16,070 --> 01:17:14,640

to friends and fellow scientists uh in a

1821

01:17:17,750 --> 01:17:16,080

frank manner because we're all trying to

1822

01:17:19,830 --> 01:17:17,760

get it the truth but

1823

01:17:21,189 --> 01:17:19,840

in large forms and things yeah you do

1824

01:17:22,470 --> 01:17:21,199

have to be a little bit careful what you

1825

01:17:24,870 --> 01:17:22,480

say or you get

1826

01:17:25,910 --> 01:17:24,880

get a lot of email and tweets and things

1827

01:17:28,790 --> 01:17:25,920

like that you're

1828

01:17:29,590 --> 01:17:28,800

you're not crazy about but you know and

1829

01:17:31,750 --> 01:17:29,600

this is where

1830

01:17:33,830 --> 01:17:31,760

i think something we lost because

1831

01:17:36,870 --> 01:17:33,840

science really started

1832

01:17:40,149 --> 01:17:36,880

uh with uh people of deep

1833

01:17:43,110 --> 01:17:40,159

faith you know uh newton had had a very

1834

01:17:44,390 --> 01:17:43,120

uh deep faith einstein himself said you

1835

01:17:46,470 --> 01:17:44,400

know i have no i

1836

01:17:47,990 --> 01:17:46,480

no doubt that god exists i just want to

1837

01:17:51,030 --> 01:17:48,000

know how he did it

1838

01:17:53,270 --> 01:17:51,040

and uh but along the way

1839

01:17:55,750 --> 01:17:53,280

you know we got so into the material

1840

01:17:59,590 --> 01:17:55,760

explanations of things

1841

01:18:00,310 --> 01:17:59,600

that forgot you know what we were

1842

01:18:02,630 --> 01:18:00,320

discovering

1843

01:18:03,910 --> 01:18:02,640

we've we forgot you know we're trying to

1844

01:18:06,310 --> 01:18:03,920

discover

1845

01:18:07,669 --> 01:18:06,320

where we are who we are why we're here

1846

01:18:10,830 --> 01:18:07,679

where we're going

1847

01:18:14,390 --> 01:18:10,840

uh you know it can't be that that

1848

01:18:17,189 --> 01:18:14,400

everything just came from nothing that's

1849

01:18:18,950 --> 01:18:17,199

that's even more metaphysical or more of

1850

01:18:22,310 --> 01:18:18,960

a miracle than

1851

01:18:24,630 --> 01:18:22,320

than having a creator that's right so

1852

01:18:26,470 --> 01:18:24,640

you know and you bring up such an

1853

01:18:28,790 --> 01:18:26,480

important point

1854

01:18:31,030 --> 01:18:28,800

uh and all the physicists of the world

1855

01:18:34,149 --> 01:18:31,040

that are listening to me right now

1856

01:18:37,430 --> 01:18:34,159

listen to my words which is

1857

01:18:40,790 --> 01:18:37,440

this newton

1858

01:18:44,790 --> 01:18:40,800

his math his equations on

1859

01:18:48,070 --> 01:18:44,800

gravity are virtually identical

1860

01:18:52,630 --> 01:18:48,080

the same math that we use today

1861

01:18:56,229 --> 01:18:52,640

to run this planet to go to the moon

1862

01:18:59,430 --> 01:18:56,239

that is from newton a man who was so

1863

01:19:00,630 --> 01:18:59,440

deeply religious that he was probably

1864

01:19:04,390 --> 01:19:00,640

more religious

1865

01:19:07,830 --> 01:19:04,400

than he was a scientist and we

1866

01:19:09,830 --> 01:19:07,840

we have lost track of that physicist

1867

01:19:10,790 --> 01:19:09,840

will mention that in passing oh yeah

1868

01:19:13,350 --> 01:19:10,800

sure he

1869

01:19:14,149 --> 01:19:13,360

he translated the bible he did this he's

1870

01:19:17,750 --> 01:19:14,159

he you know

1871

01:19:22,070 --> 01:19:17,760

but uh and then they'll just let it go

1872

01:19:25,750 --> 01:19:22,080

but but newton was okay with that

1873

01:19:27,510 --> 01:19:25,760

yeah no it's almost like uh

1874

01:19:29,669 --> 01:19:27,520

you know we think well well we've

1875

01:19:30,550 --> 01:19:29,679

evolved we're smarter now we don't have

1876

01:19:33,910 --> 01:19:30,560

to

1877

01:19:37,030 --> 01:19:33,920

uh rely on uh superstitious

1878

01:19:38,790 --> 01:19:37,040

causes but we've we've thrown the baby

1879

01:19:40,709 --> 01:19:38,800

out really we've thrown god out with the

1880

01:19:43,110 --> 01:19:40,719

bathwater if you will

1881

01:19:44,229 --> 01:19:43,120

and you know we talked about darwin

1882

01:19:47,270 --> 01:19:44,239

earlier

1883

01:19:51,430 --> 01:19:47,280

um the reason

1884

01:19:54,470 --> 01:19:51,440

that i think darwin was so embraced

1885

01:19:56,229 --> 01:19:54,480

at the time was with science was making

1886

01:19:58,950 --> 01:19:56,239

these big strides in

1887

01:20:00,630 --> 01:19:58,960

understanding geology and the paradigm

1888

01:20:02,550 --> 01:20:00,640

at the time of darwin you know early

1889

01:20:06,149 --> 01:20:02,560

1800s

1890

01:20:09,830 --> 01:20:06,159

so uh leading up to that was

1891

01:20:12,149 --> 01:20:09,840

that this fundamental interpretation of

1892

01:20:13,110 --> 01:20:12,159

the bible and that things are only 6 000

1893

01:20:16,550 --> 01:20:13,120

years old

1894

01:20:20,709 --> 01:20:16,560

well obviously science

1895

01:20:23,830 --> 01:20:20,719

couldn't agree with that and so um

1896

01:20:25,430 --> 01:20:23,840

so darwin was just quickly embraced for

1897

01:20:27,350 --> 01:20:25,440

everything he wrote

1898

01:20:28,790 --> 01:20:27,360

even though he himself doubted certain

1899

01:20:32,550 --> 01:20:28,800

parts of it

1900

01:20:35,910 --> 01:20:32,560

and uh yeah i do think we need to

1901

01:20:38,470 --> 01:20:35,920

uh you know religion is trying to find

1902

01:20:40,310 --> 01:20:38,480

a deeper truth in my opinion you know as

1903

01:20:42,709 --> 01:20:40,320

it sort of evolves from a

1904

01:20:44,950 --> 01:20:42,719

from a purely fundamentalist way of

1905

01:20:46,149 --> 01:20:44,960

looking at things to a more mystical or

1906

01:20:49,110 --> 01:20:46,159

spiritual

1907

01:20:49,669 --> 01:20:49,120

or you know consciousness point of view

1908

01:20:56,950 --> 01:20:49,679

and

1909

01:20:59,270 --> 01:20:56,960

not be so vain as to throw out

1910

01:21:00,950 --> 01:20:59,280

non-physical causes to think i mean the

1911

01:21:02,629 --> 01:21:00,960

whole idea of consciousness

1912

01:21:04,149 --> 01:21:02,639

science doesn't even have a good

1913

01:21:05,669 --> 01:21:04,159

explanation for

1914

01:21:07,189 --> 01:21:05,679

and yeah we have to meet in the middle

1915

01:21:10,709 --> 01:21:07,199

somewhere we we do

1916

01:21:12,070 --> 01:21:10,719

and the the two trains right parallel

1917

01:21:14,629 --> 01:21:12,080

running parallel but they're getting

1918

01:21:19,350 --> 01:21:14,639

ready to cross over and hit head on

1919

01:21:23,590 --> 01:21:19,360

and they i it's kind of strange

1920

01:21:26,070 --> 01:21:23,600

how i think the spiritual

1921

01:21:27,990 --> 01:21:26,080

not even to go even into religious but

1922

01:21:31,430 --> 01:21:28,000

let's say the conscious community

1923

01:21:32,790 --> 01:21:31,440

the spiritual community is okay with

1924

01:21:34,870 --> 01:21:32,800

science

1925

01:21:36,310 --> 01:21:34,880

they're okay they don't have a problem

1926

01:21:38,790 --> 01:21:36,320

with science

1927

01:21:39,590 --> 01:21:38,800

science has a problem with the spiritual

1928

01:21:41,990 --> 01:21:39,600

side

1929

01:21:43,750 --> 01:21:42,000

right and and they think that there is

1930

01:21:45,750 --> 01:21:43,760

this great divide i don't think the

1931

01:21:46,550 --> 01:21:45,760

great divide exists i think it only

1932

01:21:48,550 --> 01:21:46,560

exists

1933

01:21:52,390 --> 01:21:48,560

uh with the scientific community and

1934

01:21:57,669 --> 01:21:55,270

right i would agree with that that the

1935

01:22:00,950 --> 01:21:57,679

other side is a little bit more open

1936

01:22:03,510 --> 01:22:00,960

um but you know i i would say too

1937

01:22:04,950 --> 01:22:03,520

uh that there's a fair amount of

1938

01:22:08,310 --> 01:22:04,960

scientists that are

1939

01:22:10,870 --> 01:22:08,320

uh you know spiritual or trying to

1940

01:22:14,470 --> 01:22:10,880

understand what consciousness is

1941

01:22:16,550 --> 01:22:14,480

on a deeper level and it's just that

1942

01:22:18,310 --> 01:22:16,560

they're almost ostracized if they talk

1943

01:22:20,550 --> 01:22:18,320

about it because

1944

01:22:22,390 --> 01:22:20,560

you know we we think of the scientific

1945

01:22:23,990 --> 01:22:22,400

method as something you absolutely have

1946

01:22:26,709 --> 01:22:24,000

to prove and

1947

01:22:27,830 --> 01:22:26,719

what if there are things that can't be

1948

01:22:31,830 --> 01:22:27,840

easily proven i

1949

01:22:33,990 --> 01:22:31,840

at least physically proven and so

1950

01:22:35,270 --> 01:22:34,000

i think for the dilemmas yeah that's a

1951

01:22:37,350 --> 01:22:35,280

tough community too

1952

01:22:38,550 --> 01:22:37,360

the spiritual scientists they get

1953

01:22:41,600 --> 01:22:38,560

together once a year

1954

01:22:43,430 --> 01:22:41,610

all 10 of them had a banquet room in

1955

01:22:46,550 --> 01:22:43,440

[Laughter]

1956

01:22:50,870 --> 01:22:46,560

in la verne but

1957

01:22:54,149 --> 01:22:50,880

it's uh and we make light of this but

1958

01:22:56,229 --> 01:22:54,159

you know nobody wants to

1959

01:22:57,510 --> 01:22:56,239

uh buck this system there are some

1960

01:23:00,870 --> 01:22:57,520

courageous guys

1961

01:23:03,910 --> 01:23:00,880

out there and gals uh out there that

1962

01:23:06,390 --> 01:23:03,920

do wonder about uh

1963

01:23:07,430 --> 01:23:06,400

consciousness what is conscious what

1964

01:23:09,990 --> 01:23:07,440

what makes that

1965

01:23:11,750 --> 01:23:10,000

up is there something more that needs to

1966

01:23:13,669 --> 01:23:11,760

be discussed here about not only the

1967

01:23:14,550 --> 01:23:13,679

creation of the universe but how did we

1968

01:23:17,030 --> 01:23:14,560

get here

1969

01:23:19,510 --> 01:23:17,040

what makes us think and talk it's not

1970

01:23:20,070 --> 01:23:19,520

just chemistry and electricity that

1971

01:23:23,350 --> 01:23:20,080

cause

1972

01:23:26,229 --> 01:23:23,360

these things to happen we laugh and find

1973

01:23:29,030 --> 01:23:26,239

humor in things and we cry and we have

1974

01:23:32,149 --> 01:23:29,040

emotions and we're affected by things

1975

01:23:34,229 --> 01:23:32,159

by something else beyond chemistry

1976

01:23:35,990 --> 01:23:34,239

and they're trying to figure that out

1977

01:23:37,669 --> 01:23:36,000

and then it's the hardcore

1978

01:23:39,430 --> 01:23:37,679

scientists out there in the physicists

1979

01:23:42,310 --> 01:23:39,440

that go nah now

1980

01:23:43,910 --> 01:23:42,320

nothing to see here move along it's very

1981

01:23:46,149 --> 01:23:43,920

interesting to see these arguments

1982

01:23:49,189 --> 01:23:46,159

happen

1983

01:23:51,110 --> 01:23:49,199

it is i one of my uh

1984

01:23:52,870 --> 01:23:51,120

books on my list i actually haven't read

1985

01:23:56,470 --> 01:23:52,880

it uh yet

1986

01:23:59,750 --> 01:23:56,480

but it is uh it's by a

1987

01:24:02,070 --> 01:23:59,760

fella who went to cambridge uh got his

1988

01:24:04,310 --> 01:24:02,080

phd i think it was in

1989

01:24:05,350 --> 01:24:04,320

both biology and mathematics don't quote

1990

01:24:10,550 --> 01:24:05,360

me

1991

01:24:13,110 --> 01:24:10,560

i listened to a talk that he recently

1992

01:24:15,350 --> 01:24:13,120

gave and so his book on this

1993

01:24:16,229 --> 01:24:15,360

topic it's called darwin's doubt the

1994

01:24:19,030 --> 01:24:16,239

explosive

1995

01:24:20,550 --> 01:24:19,040

origin of animal life and the case for

1996

01:24:23,510 --> 01:24:20,560

intelligent design

1997

01:24:25,030 --> 01:24:23,520

so he's he's not afraid to go out there

1998

01:24:28,550 --> 01:24:25,040

on the limb a little bit

1999

01:24:31,590 --> 01:24:28,560

but he uses uh science 100

2000

01:24:33,910 --> 01:24:31,600

the way to uh to raise these doubts

2001  
01:24:35,110 --> 01:24:33,920  
and to make people think and you know

2002  
01:24:38,310 --> 01:24:35,120  
for me it was

2003  
01:24:39,590 --> 01:24:38,320  
it's actually very comforting because i

2004  
01:24:42,950 --> 01:24:39,600  
feel like

2005  
01:24:44,390 --> 01:24:42,960  
the whole idea of uh intelligent design

2006  
01:24:47,510 --> 01:24:44,400  
behind the universes

2007  
01:24:48,790 --> 01:24:47,520  
has had been so thrown out and so

2008  
01:24:51,750 --> 01:24:48,800  
denigrated

2009  
01:24:52,550 --> 01:24:51,760  
that it left a little bit of an empty

2010  
01:24:56,070 --> 01:24:52,560  
spot

2011  
01:24:57,910 --> 01:24:56,080  
and sort of to bring it back in and say

2012  
01:24:59,110 --> 01:24:57,920  
it really has a basis a matter of fact

2013  
01:25:03,669 --> 01:24:59,120

if you look at

2014

01:25:07,189 --> 01:25:03,679

life it it all has a code behind it

2015

01:25:10,830 --> 01:25:07,199

that i've i just found it

2016

01:25:13,669 --> 01:25:10,840

sweet and comforting i

2017

01:25:18,470 --> 01:25:13,679

i read

2018

01:25:22,070 --> 01:25:18,480

math

2019

01:25:25,669 --> 01:25:22,080

on how many chemical

2020

01:25:29,430 --> 01:25:25,679

changes and decisions are made

2021

01:25:33,110 --> 01:25:29,440

in the human body per second right

2022

01:25:36,550 --> 01:25:33,120

right and this number had like 23

2023

01:25:38,629 --> 01:25:36,560

zeros right and

2024

01:25:41,510 --> 01:25:38,639

and you have to stop and think about and

2025

01:25:43,669 --> 01:25:41,520

and every one of these decisions

2026

01:25:45,430 --> 01:25:43,679

of which there are trillions upon

2027

01:25:46,229 --> 01:25:45,440

trillions i forget what the number is

2028

01:25:48,870 --> 01:25:46,239

called

2029

01:25:50,790 --> 01:25:48,880

that are happening each second are

2030

01:25:54,070 --> 01:25:50,800

deliberate

2031

01:25:58,629 --> 01:25:54,080

if they're not we don't live

2032

01:26:01,669 --> 01:25:58,639

right it's like wait a minute here

2033

01:26:04,709 --> 01:26:01,679

there is something we needed to stop and

2034

01:26:06,629 --> 01:26:04,719

actually discuss this how

2035

01:26:07,990 --> 01:26:06,639

is it possible and it's not just in

2036

01:26:11,110 --> 01:26:08,000

human beings it's in every

2037

01:26:12,310 --> 01:26:11,120

living creature on on this planet

2038

01:26:14,310 --> 01:26:12,320

and you think about that kind of

2039

01:26:17,430 --> 01:26:14,320

diversity

2040

01:26:20,390 --> 01:26:17,440

and i'm okay with uh

2041

01:26:20,870 --> 01:26:20,400

something else here besides chemistry

2042

01:26:23,510 --> 01:26:20,880

getting

2043

01:26:24,709 --> 01:26:23,520

lucky and i don't understand why science

2044

01:26:28,870 --> 01:26:24,719

doesn't do the same thing i thought

2045

01:26:35,270 --> 01:26:32,149

well it should be uh and i think it

2046

01:26:37,110 --> 01:26:35,280

i think it is but there uh

2047

01:26:38,950 --> 01:26:37,120

for some reason we've gotten to this odd

2048

01:26:40,790 --> 01:26:38,960

place where there are certain questions

2049

01:26:44,149 --> 01:26:40,800

you can't

2050

01:26:46,629 --> 01:26:44,159

ask uh

2051

01:26:48,149 --> 01:26:46,639

you know and it's just not right i i

2052

01:26:49,830 --> 01:26:48,159

guess

2053

01:26:51,270 --> 01:26:49,840

that's because the science is supposed

2054

01:26:53,270 --> 01:26:51,280

to be settled but

2055

01:26:55,590 --> 01:26:53,280

golly if we know anything there's sort

2056

01:26:58,470 --> 01:26:55,600

of always a deeper truth and thus

2057

01:27:00,390 --> 01:26:58,480

you know darwin or i'm sorry um newton

2058

01:27:02,790 --> 01:27:00,400

worked really really well

2059

01:27:03,990 --> 01:27:02,800

except he didn't very well define the

2060

01:27:07,110 --> 01:27:04,000

small things are the super

2061

01:27:10,070 --> 01:27:07,120

big things and so we needed einstein

2062

01:27:12,709 --> 01:27:10,080

and so we do have to question i would i

2063

01:27:15,430 --> 01:27:12,719

guess we just have to do it in

2064

01:27:16,310 --> 01:27:15,440

such a manner that we don't piss too

2065

01:27:18,149 --> 01:27:16,320

many people off

2066

01:27:20,149 --> 01:27:18,159

well and we're going to do when we come

2067

01:27:22,709 --> 01:27:20,159

back after this break

2068

01:27:24,550 --> 01:27:22,719

uh we're going to go right there because

2069

01:27:28,390 --> 01:27:24,560

even einstein

2070

01:27:31,750 --> 01:27:28,400

got it wrong completely

2071

01:27:33,030 --> 01:27:31,760

and like you said you know a static

2072

01:27:36,390 --> 01:27:33,040

stable universe an

2073

01:27:39,189 --> 01:27:36,400

unmoving universe was the accepted

2074

01:27:40,550 --> 01:27:39,199

norm and when we come back we're going

2075

01:27:43,669 --> 01:27:40,560

to discuss that because

2076

01:27:44,629 --> 01:27:43,679

einstein had to backpedal and it must

2077

01:27:46,870 --> 01:27:44,639

have not have been

2078

01:27:47,830 --> 01:27:46,880

easy for him especially at that time

2079

01:27:51,430 --> 01:27:47,840

with his

2080

01:27:53,510 --> 01:27:51,440

around the world this

2081

01:27:55,350 --> 01:27:53,520

is fade to black i am your host jimmy

2082

01:27:56,229 --> 01:27:55,360

church our guest tonight walter

2083

01:27:59,430 --> 01:27:56,239

cruttenden

2084

01:28:00,950 --> 01:27:59,440

we are discussing everything

2085

01:28:02,709 --> 01:28:00,960

this is fade to black i'm yours timmy

2086

01:28:15,150 --> 01:28:02,719

church more with walter when we come

2087

01:28:23,430 --> 01:28:15,160

back after this short break stay with us

2088

01:28:29,669 --> 01:28:26,550

way out here we listen to jimmy church

2089

01:28:31,510 --> 01:28:29,679

you're listening to fade to black

2090

01:28:33,590 --> 01:28:31,520

always on the edge of the hottest

2091

01:28:51,510 --> 01:28:33,600

alternative talk jimmy church

2092

01:28:55,590 --> 01:28:53,590

do you want to be an official fate or

2093

01:28:57,669 --> 01:28:55,600

not of course you do

2094

01:29:00,669 --> 01:28:57,679

this is jimmy church of fade to black

2095

01:29:02,350 --> 01:29:00,679

just go to our membership section at

2096

01:29:03,750 --> 01:29:02,360

jimmychurchradio.com

2097

01:29:06,950 --> 01:29:03,760

[Music]

2098

01:29:09,189 --> 01:29:06,960

introducing the new surfer music app

2099

01:29:09,990 --> 01:29:09,199

listen fate or not you know i love my

2100

01:29:13,910 --> 01:29:10,000

music

2101  
01:29:16,229 --> 01:29:13,920  
this is my go-to for all things notes

2102  
01:29:17,350 --> 01:29:16,239  
the surfer app is a brand new concept in

2103  
01:29:19,510 --> 01:29:17,360  
music listening

2104  
01:29:21,669 --> 01:29:19,520  
surfer is free providing unlimited

2105  
01:29:22,950 --> 01:29:21,679  
access to thousands of live streaming

2106  
01:29:24,870 --> 01:29:22,960  
radio stations

2107  
01:29:26,229 --> 01:29:24,880  
surfer is an exciting interactive

2108  
01:29:28,470 --> 01:29:26,239  
listening experience

2109  
01:29:31,030 --> 01:29:28,480  
discovery and surprise are built right

2110  
01:29:32,790 --> 01:29:31,040  
in surfer is your destination to

2111  
01:29:35,750 --> 01:29:32,800  
discover and rediscover

2112  
01:29:37,590 --> 01:29:35,760  
great live streaming music it features

2113  
01:29:39,669 --> 01:29:37,600

high quality audio streams

2114

01:29:41,510 --> 01:29:39,679

free access to music from thousands of

2115

01:29:44,149 --> 01:29:41,520

live streaming radio stations

2116

01:29:46,470 --> 01:29:44,159

unlimited listening unlimited skipping

2117

01:29:48,550 --> 01:29:46,480

you get a music visualizer and you can

2118

01:29:50,950 --> 01:29:48,560

also select your favorite channels

2119

01:29:52,550 --> 01:29:50,960

get it at the apple app store or google

2120

01:29:54,870 --> 01:29:52,560

play just search

2121

01:29:57,350 --> 01:29:54,880

surfer music or click on the surfer

2122

01:30:01,590 --> 01:29:57,360

banner at jimmychurchradio.com

2123

01:30:07,830 --> 01:30:04,629

so you love talk radio then you'll love

2124

01:30:08,950 --> 01:30:07,840

talk talkstreamlive.com talk stream live

2125

01:30:11,750 --> 01:30:08,960

is always on

2126  
01:30:13,750 --> 01:30:11,760  
24 7 with the best streaming talk shows

2127  
01:30:14,629 --> 01:30:13,760  
find your favorite talkers and discover

2128  
01:30:17,590 --> 01:30:14,639  
some new ones

2129  
01:30:19,669 --> 01:30:17,600  
it's free readily available online or on

2130  
01:30:21,750 --> 01:30:19,679  
mobile with any smartphone or tablet

2131  
01:30:24,390 --> 01:30:21,760  
finding your favorite talk shows all in

2132  
01:30:27,270 --> 01:30:24,400  
one place has gotten a whole lot easier

2133  
01:30:29,510 --> 01:30:27,280  
just go to [talkstreamlive.com](http://talkstreamlive.com) be sure to

2134  
01:30:32,870 --> 01:30:29,520  
download the free apps from google play

2135  
01:30:36,070 --> 01:30:32,880  
or the itunes app store

2136  
01:30:37,990 --> 01:30:36,080  
you listen to us and we listen to you

2137  
01:30:42,430 --> 01:30:38,000  
and so does the cia

2138  
01:30:45,110 --> 01:30:42,440

[Music]

2139

01:30:47,189 --> 01:30:45,120

kgraradio.com if you have hard water the

2140

01:30:48,790 --> 01:30:47,199

lime scale not only leaves white spots

2141

01:30:49,510 --> 01:30:48,800

it clogs pipes and breaks down

2142

01:30:51,270 --> 01:30:49,520

appliances

2143

01:30:53,669 --> 01:30:51,280

costing you hundreds of dollars in

2144

01:30:55,590 --> 01:30:53,679

energy and wear eliminate lime scale and

2145

01:30:57,510 --> 01:30:55,600

other water issues like brown staining

2146

01:30:58,070 --> 01:30:57,520

and bad odors with hydrocare water

2147

01:31:00,310 --> 01:30:58,080

products

2148

01:31:02,470 --> 01:31:00,320

available from wave home solutions waves

2149

01:31:04,229 --> 01:31:02,480

affordable water systems don't use salts

2150

01:31:06,149 --> 01:31:04,239

or chemicals you'll love the way your

2151

01:31:07,990 --> 01:31:06,159

water tastes smells and looks

2152

01:31:10,870 --> 01:31:08,000

satisfaction guaranteed for more

2153

01:31:14,070 --> 01:31:10,880

information go to [bestwater123.com](http://bestwater123.com)

2154

01:31:16,229 --> 01:31:14,080

that's [bestwater123.com](http://bestwater123.com)

2155

01:31:18,550 --> 01:31:16,239

are you intrigued by paranormal talk

2156

01:31:19,430 --> 01:31:18,560

radio you'll love the new paranormal

2157

01:31:22,390 --> 01:31:19,440

radio app

2158

01:31:24,310 --> 01:31:22,400

from talk stream live you'll find a

2159

01:31:25,350 --> 01:31:24,320

great selection of talk shows covering

2160

01:31:28,390 --> 01:31:25,360

ufos

2161

01:31:30,790 --> 01:31:28,400

ghosts strange phenomena and much more

2162

01:31:32,629 --> 01:31:30,800

download the paranormal radio app now

2163

01:31:34,550 --> 01:31:32,639

and start listening to the very best in

2164

01:31:36,070 --> 01:31:34,560

paranormal talk entertainment

2165

01:31:38,950 --> 01:31:36,080

including the network you're listening

2166

01:31:42,830 --> 01:31:38,960

to right now the paranormal radio app

2167

01:31:44,709 --> 01:31:42,840

free in google play and the ios app

2168

01:31:46,790 --> 01:31:44,719

store

2169

01:31:51,590 --> 01:31:46,800

you are listening to fate to black with

2170

01:31:55,189 --> 01:31:54,070

hi i'm rhys evans you're listening to

2171

01:31:58,310 --> 01:31:55,199

jimmy church

2172

01:31:59,669 --> 01:31:58,320

this is revolution the revolution will

2173

01:32:12,080 --> 01:31:59,679

not be televised

2174

01:32:24,830 --> 01:32:12,090

the revolution is on radio

2175

01:32:25,870 --> 01:32:24,840

[Music]

2176  
01:32:38,830 --> 01:32:25,880  
so

2177  
01:32:42,420 --> 01:32:41,070  
foreign

2178  
01:32:45,990 --> 01:32:42,430  
[Music]

2179  
01:32:49,830 --> 01:32:47,990  
welcome back faded black i am your host

2180  
01:32:51,590 --> 01:32:49,840  
jimmy church

2181  
01:32:53,910 --> 01:32:51,600  
our guest tonight walter cruttenton and

2182  
01:32:56,070 --> 01:32:53,920  
if you ever miss a live show this is a

2183  
01:32:58,229 --> 01:32:56,080  
live radio broadcast

2184  
01:32:59,750 --> 01:32:58,239  
but if you ever miss a live show like

2185  
01:33:02,310 --> 01:32:59,760  
this one with walter

2186  
01:33:03,110 --> 01:33:02,320  
just get our podcast simple two dollars

2187  
01:33:06,030 --> 01:33:03,120  
per month

2188  
01:33:08,870 --> 01:33:06,040

we have over 1200 shows closing in on

2189

01:33:11,510 --> 01:33:08,880

1300 shows right there in the archives

2190

01:33:12,550 --> 01:33:11,520

for just two dollars per month and if

2191

01:33:15,430 --> 01:33:12,560

you go back

2192

01:33:16,390 --> 01:33:15,440

and to the original shows that we did

2193

01:33:17,910 --> 01:33:16,400

with walter

2194

01:33:19,669 --> 01:33:17,920

if you go back there that right there

2195

01:33:21,350 --> 01:33:19,679

that's worth the price of admission

2196

01:33:23,430 --> 01:33:21,360

right there that's worth your two bucks

2197

01:33:26,550 --> 01:33:23,440

a month and uh

2198

01:33:29,510 --> 01:33:26,560

walter uh science

2199

01:33:31,350 --> 01:33:29,520

science has to be a series of

2200

01:33:34,709 --> 01:33:31,360

corrections

2201

01:33:36,149 --> 01:33:34,719

we know this it's nothing but a series

2202

01:33:39,830 --> 01:33:36,159

of corrections

2203

01:33:42,229 --> 01:33:39,840

and back in 1922 uh

2204

01:33:43,189 --> 01:33:42,239

and i i read so many books and and

2205

01:33:45,910 --> 01:33:43,199

studied you know

2206

01:33:47,910 --> 01:33:45,920

einstein's big blunder and and the

2207

01:33:51,189 --> 01:33:47,920

mistake that he made

2208

01:33:56,709 --> 01:33:51,199

uh it was edwin hubble that

2209

01:33:56,719 --> 01:34:00,310

oh good question um

2210

01:34:06,950 --> 01:34:03,669

so some of those corrections uh

2211

01:34:08,950 --> 01:34:06,960

you're referring to are so big that they

2212

01:34:10,470 --> 01:34:08,960

change our world view and i think that's

2213

01:34:12,149 --> 01:34:10,480

why these things are memorable in

2214

01:34:16,229 --> 01:34:12,159

history so

2215

01:34:19,510 --> 01:34:16,239

you know prior to hubble

2216

01:34:20,149 --> 01:34:19,520

uh it was thought that you know at least

2217

01:34:22,790 --> 01:34:20,159

by

2218

01:34:25,350 --> 01:34:22,800

the material scientists that the

2219

01:34:26,790 --> 01:34:25,360

universe was in a steady state

2220

01:34:28,870 --> 01:34:26,800

and it's just because there was no

2221

01:34:29,430 --> 01:34:28,880

evidence for anything else you just look

2222

01:34:31,189 --> 01:34:29,440

out at the

2223

01:34:33,030 --> 01:34:31,199

night sky and you figure everything's

2224

01:34:33,669 --> 01:34:33,040

always like this the fixed stars are

2225

01:34:37,270 --> 01:34:33,679

fixed

2226

01:34:40,390 --> 01:34:37,280

not much is moving and that was

2227

01:34:43,830 --> 01:34:40,400

uh that was perplexing to

2228

01:34:48,070 --> 01:34:43,840

a lot of people because it goes

2229

01:34:50,149 --> 01:34:48,080

directly against uh sort of a higher

2230

01:34:52,870 --> 01:34:50,159

spiritual teaching if you will where you

2231

01:34:54,550 --> 01:34:52,880

know the bible

2232

01:34:55,990 --> 01:34:54,560

i think page one it says in the

2233

01:34:59,590 --> 01:34:56,000

beginning

2234

01:35:00,709 --> 01:34:59,600

so implying that the universe has a

2235

01:35:04,310 --> 01:35:00,719

beginning

2236

01:35:07,510 --> 01:35:04,320

and so there was this little underlying

2237

01:35:10,070 --> 01:35:07,520

uh dis-ease between sort of the

2238

01:35:12,149 --> 01:35:10,080

spiritual community and and the

2239

01:35:16,310 --> 01:35:12,159

scientists of the time

2240

01:35:19,189 --> 01:35:16,320

and it was it was hubble

2241

01:35:20,790 --> 01:35:19,199

uh that that really was one of the first

2242

01:35:23,750 --> 01:35:20,800

to understand

2243

01:35:24,310 --> 01:35:23,760

uh that those fuzzy things we see out

2244

01:35:26,870 --> 01:35:24,320

there

2245

01:35:28,550 --> 01:35:26,880

that we thought were just nebulae or

2246

01:35:30,950 --> 01:35:28,560

actually galaxies

2247

01:35:33,510 --> 01:35:30,960

and then if you look really close

2248

01:35:36,950 --> 01:35:33,520

there's a whole bunch of galaxies

2249

01:35:40,310 --> 01:35:36,960

and if you look closer still

2250

01:35:44,310 --> 01:35:40,320

some of them seem to be very very

2251

01:35:47,510 --> 01:35:44,320

far out there and and if you look

2252

01:35:49,910 --> 01:35:47,520

closer still you'll see that

2253

01:35:52,390 --> 01:35:49,920

many of them are red-shifted meaning

2254

01:35:55,669 --> 01:35:52,400

that the waves coming from them

2255

01:35:58,709 --> 01:35:55,679

the electromagnetic wave is uh

2256

01:36:00,950 --> 01:35:58,719

you know if if it's

2257

01:36:03,109 --> 01:36:00,960

if it was coming towards us if the

2258

01:36:03,430 --> 01:36:03,119

object say the galaxy was coming towards

2259

01:36:05,830 --> 01:36:03,440

us

2260

01:36:07,669 --> 01:36:05,840

the wave would be uh compressed it would

2261

01:36:09,109 --> 01:36:07,679

be blue shifted if it's going away from

2262

01:36:10,950 --> 01:36:09,119

us it's redshifted

2263

01:36:13,350 --> 01:36:10,960

so he not only realized there are a lot

2264

01:36:16,149 --> 01:36:13,360

of galaxies and they're moving far away

2265

01:36:18,229 --> 01:36:16,159

but that they're uh that the whole

2266

01:36:22,229 --> 01:36:18,239

universe is expanding

2267

01:36:22,550 --> 01:36:22,239

and and that's that's a revelation to

2268

01:36:24,470 --> 01:36:22,560

this

2269

01:36:26,470 --> 01:36:24,480

whole other conversation because if the

2270

01:36:29,189 --> 01:36:26,480

universe is expanding

2271

01:36:30,149 --> 01:36:29,199

that means you could go back you know a

2272

01:36:34,149 --> 01:36:30,159

billion years ago

2273

01:36:35,830 --> 01:36:34,159

years ago and it's smaller and smaller

2274

01:36:38,149 --> 01:36:35,840

and smaller and smaller

2275

01:36:39,510 --> 01:36:38,159

so it really means the universe has a

2276

01:36:42,149 --> 01:36:39,520

beginning

2277

01:36:43,830 --> 01:36:42,159

and and so once again the uh sort of the

2278

01:36:47,750 --> 01:36:43,840

ancient teachings

2279

01:36:49,990 --> 01:36:47,760

are realigned uh with the uh

2280

01:36:52,070 --> 01:36:50,000

with with science and so it was a

2281

01:36:53,750 --> 01:36:52,080

glorious period in my mind and

2282

01:36:56,310 --> 01:36:53,760

hubble deserves a lot of work and

2283

01:36:59,830 --> 01:36:56,320

service uh george i think his

2284

01:37:01,910 --> 01:36:59,840

last name is the matre uh

2285

01:37:03,990 --> 01:37:01,920

he was a belgian catholic priest who

2286

01:37:06,470 --> 01:37:04,000

happened to also be an astronomer so

2287

01:37:07,350 --> 01:37:06,480

maybe he had some other reasons for

2288

01:37:10,070 --> 01:37:07,360

effectively

2289

01:37:11,030 --> 01:37:10,080

uh looking at the redshift data and

2290

01:37:14,070 --> 01:37:11,040

coming to this

2291

01:37:16,950 --> 01:37:14,080

explanation there was a big bang yeah

2292

01:37:18,390 --> 01:37:16,960

and what was so interesting uh for me

2293

01:37:21,669 --> 01:37:18,400

about that period

2294

01:37:24,310 --> 01:37:21,679

we're talking about 1922 1923

2295

01:37:24,870 --> 01:37:24,320

in that when hubble and all of this

2296

01:37:27,910 --> 01:37:24,880

happened

2297

01:37:29,750 --> 01:37:27,920

uh literally in my backyard on mount

2298

01:37:33,270 --> 01:37:29,760

wilson which you can see

2299

01:37:33,750 --> 01:37:33,280

uh from my home and yeah the mount

2300

01:37:36,790 --> 01:37:33,760

wilson

2301

01:37:39,750 --> 01:37:36,800

observatory and and edwin hubble

2302

01:37:41,910 --> 01:37:39,760

had uh just fired up the biggest

2303

01:37:43,910 --> 01:37:41,920

telescope in the world it was

2304

01:37:46,070 --> 01:37:43,920

a hundred inch uh telescope called

2305

01:37:49,270 --> 01:37:46,080

hooker it was the hooker telescope

2306

01:37:52,149 --> 01:37:49,280

and so him and his assistant started

2307

01:37:52,950 --> 01:37:52,159

you know mapping uh these stars out and

2308

01:37:56,550 --> 01:37:52,960

they found

2309

01:37:58,870 --> 01:37:56,560

in in in andromeda and they see

2310

01:38:00,070 --> 01:37:58,880

see them moving and the redshift that

2311

01:38:02,870 --> 01:38:00,080

you're talking about

2312

01:38:04,229 --> 01:38:02,880

and what he then discovered was not only

2313

01:38:07,990 --> 01:38:04,239

are they moving

2314

01:38:11,270 --> 01:38:08,000

but the further out a galaxy was

2315

01:38:14,870 --> 01:38:11,280

the faster it was moving

2316

01:38:16,470 --> 01:38:14,880

so it would indicate that the universe

2317

01:38:20,310 --> 01:38:16,480

was not only expanding

2318

01:38:23,270 --> 01:38:20,320

but it was increasing its speed

2319

01:38:26,390 --> 01:38:23,280

of expansion and what when and going

2320

01:38:27,430 --> 01:38:26,400

back to 1922 1923 the point that you

2321

01:38:29,910 --> 01:38:27,440

just made

2322

01:38:32,550 --> 01:38:29,920

there were arguments on both sides of

2323

01:38:35,669 --> 01:38:32,560

this that were pretty strong

2324

01:38:38,470 --> 01:38:35,679

so to have something tip the scales

2325

01:38:39,830 --> 01:38:38,480

all the way over on to the other side

2326  
01:38:43,510 --> 01:38:39,840  
because

2327  
01:38:44,870 --> 01:38:43,520  
quite honestly the community was split

2328  
01:38:46,790 --> 01:38:44,880  
right down the middle and there was a

2329  
01:38:49,990 --> 01:38:46,800  
lot of evidence supporting

2330  
01:38:51,510 --> 01:38:50,000  
uh supporting them both but that's how

2331  
01:38:55,109 --> 01:38:51,520  
big of a moment this was

2332  
01:38:57,430 --> 01:38:55,119  
wasn't it it was that big

2333  
01:38:59,669 --> 01:38:57,440  
and uh you know we were talking a little

2334  
01:39:00,870 --> 01:38:59,679  
bit about einstein before the break and

2335  
01:39:02,790 --> 01:39:00,880  
and you got to really hand it to

2336  
01:39:05,109 --> 01:39:02,800  
einstein he was one of the more

2337  
01:39:06,229 --> 01:39:05,119  
humble scientists i i believe he was

2338  
01:39:09,510 --> 01:39:06,239

just so deep

2339

01:39:11,830 --> 01:39:09,520

he didn't have any room for ego but uh

2340

01:39:13,189 --> 01:39:11,840

yeah he was the one that you know he'd

2341

01:39:17,270 --> 01:39:13,199

come up with this whole

2342

01:39:21,030 --> 01:39:17,280

uh steady state uh static

2343

01:39:25,109 --> 01:39:21,040

universe and so he even had to invent uh

2344

01:39:28,470 --> 01:39:25,119

a constant to to have make sense of it

2345

01:39:30,790 --> 01:39:28,480

and uh and of course when he saw uh

2346

01:39:31,990 --> 01:39:30,800

hubble's data and and and talked to a

2347

01:39:34,070 --> 01:39:32,000

few others

2348

01:39:35,030 --> 01:39:34,080

he realized that oh yeah it has to be

2349

01:39:37,350 --> 01:39:35,040

expanding

2350

01:39:40,149 --> 01:39:37,360

but there's a famous well there's a

2351

01:39:42,790 --> 01:39:40,159

famous photograph of einstein uh

2352

01:39:43,189 --> 01:39:42,800

with with edwin hubble at the hooker's

2353

01:39:45,109 --> 01:39:43,199

uh

2354

01:39:46,229 --> 01:39:45,119

telescope looking through the eyepiece

2355

01:39:48,870 --> 01:39:46,239

right

2356

01:39:50,470 --> 01:39:48,880

and it was like a week later einstein

2357

01:39:55,109 --> 01:39:50,480

went back with an eraser

2358

01:39:58,870 --> 01:39:55,119

right changed changed a couple digits

2359

01:40:00,550 --> 01:39:58,880

and and changed his equations

2360

01:40:03,030 --> 01:40:00,560

for everybody and you're absolutely

2361

01:40:04,229 --> 01:40:03,040

right he was very humble in that regard

2362

01:40:06,310 --> 01:40:04,239

he didn't want to do it

2363

01:40:07,350 --> 01:40:06,320

he changed it a couple of times leading

2364

01:40:10,870 --> 01:40:07,360

up to that

2365

01:40:13,350 --> 01:40:10,880

to make everything static right that's

2366

01:40:14,629 --> 01:40:13,360

that's the other extraordinary thing and

2367

01:40:17,030 --> 01:40:14,639

today

2368

01:40:18,070 --> 01:40:17,040

uh which also leads into some of your

2369

01:40:20,470 --> 01:40:18,080

research

2370

01:40:22,709 --> 01:40:20,480

today i don't see that same freedom of

2371

01:40:28,390 --> 01:40:22,719

thought

2372

01:40:34,470 --> 01:40:31,910

it seems to stay inside of the box

2373

01:40:38,870 --> 01:40:34,480

nobody wants to go outside of the box

2374

01:40:44,950 --> 01:40:42,790

um you know i

2375

01:40:46,790 --> 01:40:44,960

i think it's almost well i think it's

2376

01:40:51,030 --> 01:40:46,800

because

2377

01:40:53,430 --> 01:40:51,040

uh materialism uh you know just a

2378

01:40:55,510 --> 01:40:53,440

a materialistic explanation of the

2379

01:40:58,550 --> 01:40:55,520

universe

2380

01:41:01,189 --> 01:40:58,560

has become a religion

2381

01:41:02,229 --> 01:41:01,199

for some people you know they don't have

2382

01:41:03,590 --> 01:41:02,239

a religion

2383

01:41:05,669 --> 01:41:03,600

they want something that they can

2384

01:41:06,709 --> 01:41:05,679

believe in we all need a world view to

2385

01:41:08,629 --> 01:41:06,719

just sort of

2386

01:41:09,750 --> 01:41:08,639

get up and operate in the world we kind

2387

01:41:12,629 --> 01:41:09,760

of have to know

2388

01:41:13,030 --> 01:41:12,639

have some opinion about what's going on

2389

01:41:19,270 --> 01:41:13,040

and

2390

01:41:21,750 --> 01:41:19,280

now broken into this

2391

01:41:23,350 --> 01:41:21,760

totally materialistic point of view

2392

01:41:26,709 --> 01:41:23,360

which is almost

2393

01:41:29,669 --> 01:41:26,719

like i say become a religion

2394

01:41:33,510 --> 01:41:29,679

and they you know they are wrong if the

2395

01:41:37,669 --> 01:41:33,520

other side is right and uh

2396

01:41:40,550 --> 01:41:37,679

yeah it's it's it just seems too

2397

01:41:42,470 --> 01:41:40,560

they're too intractable at the moment

2398

01:41:43,430 --> 01:41:42,480

because there's so many things we can't

2399

01:41:46,390 --> 01:41:43,440

explain

2400

01:41:48,310 --> 01:41:46,400

with a completely materialistic view i i

2401

01:41:49,910 --> 01:41:48,320

agree it's good to try

2402

01:41:51,590 --> 01:41:49,920

and try to come up with laws and

2403

01:41:55,030 --> 01:41:51,600

principles

2404

01:41:57,910 --> 01:41:55,040

you know even if i was the creator

2405

01:41:59,669 --> 01:41:57,920

you know i would use a lot of ai tools

2406

01:42:01,830 --> 01:41:59,679

and i think that's what he does

2407

01:42:03,669 --> 01:42:01,840

he he uses laws of physics and things

2408

01:42:05,189 --> 01:42:03,679

just to keep things going

2409

01:42:07,590 --> 01:42:05,199

in the meantime so he doesn't have to

2410

01:42:11,109 --> 01:42:07,600

have his hand on everything but

2411

01:42:13,830 --> 01:42:11,119

um but i think science does need to

2412

01:42:17,590 --> 01:42:13,840

allow for

2413

01:42:18,390 --> 01:42:17,600

you know things non-causal sorts of

2414

01:42:21,189 --> 01:42:18,400

things

2415

01:42:22,310 --> 01:42:21,199

and to say that the universe all comes

2416

01:42:25,350 --> 01:42:22,320

from

2417

01:42:26,149 --> 01:42:25,360

nothing you know it really the current

2418

01:42:30,629 --> 01:42:26,159

theory

2419

01:42:34,550 --> 01:42:30,639

singularity event

2420

01:42:37,669 --> 01:42:34,560

and that is that's smaller than nothing

2421

01:42:39,590 --> 01:42:37,679

and you know i to me that's just another

2422

01:42:41,510 --> 01:42:39,600

definition for god so

2423

01:42:43,189 --> 01:42:41,520

i don't see what all the trouble is but

2424

01:42:46,790 --> 01:42:43,199

apparently people are in two camps

2425

01:42:49,109 --> 01:42:46,800

well and the uh uh

2426

01:42:50,070 --> 01:42:49,119

there's there's two ways for me to that

2427

01:42:54,390 --> 01:42:50,080

to look at this

2428

01:42:58,709 --> 01:42:54,400

one we know that einstein's

2429

01:43:01,430 --> 01:42:58,719

equations work to a certain point

2430

01:43:02,070 --> 01:43:01,440

and when you get smaller and smaller and

2431

01:43:05,189 --> 01:43:02,080

smaller

2432

01:43:08,390 --> 01:43:05,199

closer to the beginning of time right

2433

01:43:11,350 --> 01:43:08,400

the event the big bang the

2434

01:43:13,189 --> 01:43:11,360

equations get jumbled and they don't

2435

01:43:16,550 --> 01:43:13,199

make any sense anymore

2436

01:43:19,990 --> 01:43:16,560

so there's that part of it the other

2437

01:43:20,790 --> 01:43:20,000

side of it for me is when we look at the

2438

01:43:22,790 --> 01:43:20,800

ancients

2439

01:43:23,990 --> 01:43:22,800

it doesn't matter what the culture is

2440

01:43:27,189 --> 01:43:24,000

but the further back you

2441

01:43:28,470 --> 01:43:27,199

go there was a fundamental understanding

2442

01:43:31,430 --> 01:43:28,480

of science

2443

01:43:33,590 --> 01:43:31,440

where it came from i don't know because

2444

01:43:35,990 --> 01:43:33,600

we're not any closer to it today

2445

01:43:39,030 --> 01:43:36,000

but they had a you know to talk about

2446

01:43:42,070 --> 01:43:39,040

knowledge of a precession that covers 26

2447

01:43:44,950 --> 01:43:42,080

000 years doesn't make any sense

2448

01:43:45,830 --> 01:43:44,960

we've only had fundamental signs for 300

2449

01:43:48,550 --> 01:43:45,840

years

2450

01:43:50,070 --> 01:43:48,560

so how did that apply and then at the

2451

01:43:53,510 --> 01:43:50,080

same time

2452

01:43:56,070 --> 01:43:53,520

they had the spiritual side of

2453

01:43:57,910 --> 01:43:56,080

of their knowledge that they understood

2454

01:44:01,109 --> 01:43:57,920

and that they lived by

2455

01:44:03,510 --> 01:44:01,119

today that part is right out so

2456

01:44:05,030 --> 01:44:03,520

maybe we should go back and look at the

2457

01:44:07,350 --> 01:44:05,040

way the ancients

2458

01:44:09,109 --> 01:44:07,360

tried to present this because they had a

2459

01:44:09,590 --> 01:44:09,119

fundamental knowledge of things back

2460

01:44:13,990 --> 01:44:09,600

then

2461

01:44:17,430 --> 01:44:14,000

that they clearly understood didn't they

2462

01:44:20,629 --> 01:44:17,440

i would agree yeah no the ancient rishis

2463

01:44:23,990 --> 01:44:20,639

uh you know vedic tradition

2464

01:44:24,870 --> 01:44:24,000

are are just amazing the more i read

2465

01:44:27,990 --> 01:44:24,880

about them

2466

01:44:33,109 --> 01:44:28,000

the more in awe i am

2467

01:44:39,510 --> 01:44:36,149

science and religion um i

2468

01:44:41,430 --> 01:44:39,520

i read a book that really uh

2469

01:44:43,270 --> 01:44:41,440

helped me see this a little bit more and

2470

01:44:45,750 --> 01:44:43,280

it's it's actually called the holy

2471

01:44:50,790 --> 01:44:45,760

science by three yuctus war

2472

01:44:53,669 --> 01:44:50,800

and and and in it he talks about how

2473

01:44:54,310 --> 01:44:53,679

you know the vedic astronomers were

2474

01:44:58,550 --> 01:44:54,320

great

2475

01:45:01,430 --> 01:44:58,560

observers of the sky and uh

2476

01:45:02,790 --> 01:45:01,440

and and you know they they came up with

2477

01:45:06,070 --> 01:45:02,800

scientific

2478

01:45:08,470 --> 01:45:06,080

uh explanations for things that that

2479

01:45:09,669 --> 01:45:08,480

i i agree they were all lost during the

2480

01:45:11,830 --> 01:45:09,679

dark ages

2481

01:45:13,510 --> 01:45:11,840

uh but we're sort of uncovering some of

2482

01:45:14,629 --> 01:45:13,520

them now and you're right they talked

2483

01:45:17,189 --> 01:45:14,639

about

2484

01:45:19,189 --> 01:45:17,199

uh the procession of the equinox which

2485

01:45:21,990 --> 01:45:19,199

is

2486

01:45:22,950 --> 01:45:22,000

too long a cycle for uh for us to really

2487

01:45:25,109 --> 01:45:22,960

know much about

2488

01:45:26,390 --> 01:45:25,119

if if science has only been around about

2489

01:45:28,550 --> 01:45:26,400

300 years

2490

01:45:30,550 --> 01:45:28,560

but again they say that tied to the

2491

01:45:31,910 --> 01:45:30,560

procession cycle is this rise and fall

2492

01:45:35,510 --> 01:45:31,920

of the ages and

2493

01:45:38,709 --> 01:45:35,520

and i guess we all grew up uh

2494

01:45:39,830 --> 01:45:38,719

you know being taught about a dark age

2495

01:45:41,590 --> 01:45:39,840

and a golden age

2496

01:45:43,430 --> 01:45:41,600

it's just that we we're taught the dark

2497

01:45:44,470 --> 01:45:43,440

age is real and the golden age was just

2498

01:45:47,109 --> 01:45:44,480

a myth

2499

01:45:48,149 --> 01:45:47,119

and i i really think that you know the

2500

01:45:51,350 --> 01:45:48,159

more we

2501  
01:45:53,350 --> 01:45:51,360  
uh discover out there the more science

2502  
01:45:54,870 --> 01:45:53,360  
progresses the more it will harmonize

2503  
01:45:56,390 --> 01:45:54,880  
with religion and the more we will

2504  
01:45:59,189 --> 01:45:56,400  
realize that

2505  
01:45:59,910 --> 01:45:59,199  
indeed the long-lost golden age is is

2506  
01:46:02,229 --> 01:45:59,920  
not a myth

2507  
01:46:03,350 --> 01:46:02,239  
it's it was something very real and

2508  
01:46:05,750 --> 01:46:03,360  
something we have

2509  
01:46:06,709 --> 01:46:05,760  
to look forward to again in the future

2510  
01:46:10,830 --> 01:46:06,719  
do you think

2511  
01:46:12,310 --> 01:46:10,840  
that with different cultures around the

2512  
01:46:15,430 --> 01:46:12,320  
world uh

2513  
01:46:18,470 --> 01:46:15,440

all of them all of them

2514

01:46:19,189 --> 01:46:18,480

spoke about other realms other places to

2515

01:46:23,430 --> 01:46:19,199

go to

2516

01:46:26,709 --> 01:46:23,440

other dimensions uh contact with that

2517

01:46:30,229 --> 01:46:26,719

and the understanding of that that

2518

01:46:33,950 --> 01:46:30,239

today when we talk about quantum physics

2519

01:46:37,350 --> 01:46:33,960

and and theoretical physics where the

2520

01:46:38,310 --> 01:46:37,360

presentation from science today speaks

2521

01:46:40,709 --> 01:46:38,320

of

2522

01:46:41,510 --> 01:46:40,719

extra dimensions and string theory and

2523

01:46:44,070 --> 01:46:41,520

of course

2524

01:46:45,109 --> 01:46:44,080

uh the multiverse and multi-world uh

2525

01:46:48,390 --> 01:46:45,119

theories

2526

01:46:51,030 --> 01:46:48,400

that this is exactly what

2527

01:46:51,669 --> 01:46:51,040

religions have been talking about in in

2528

01:46:56,470 --> 01:46:51,679

the past

2529

01:46:59,910 --> 01:46:58,870

i think so to some degree uh you know

2530

01:47:03,189 --> 01:46:59,920

there's a great

2531

01:47:05,350 --> 01:47:03,199

book on that topic um hamlet's mill

2532

01:47:06,629 --> 01:47:05,360

by giorgio de santiana and hertha

2533

01:47:10,149 --> 01:47:06,639

vandeshen

2534

01:47:11,990 --> 01:47:10,159

and you know they try to uh trace

2535

01:47:13,910 --> 01:47:12,000

uh these ancient cultures and their

2536

01:47:17,430 --> 01:47:13,920

knowledge of uh

2537

01:47:19,430 --> 01:47:17,440

astronomy and um they

2538

01:47:20,470 --> 01:47:19,440

they say that there's over 30 ancient

2539

01:47:23,830 --> 01:47:20,480

cultures that were

2540

01:47:26,950 --> 01:47:23,840

great sky watchers that

2541

01:47:30,709 --> 01:47:26,960

spoke about or referred to this

2542

01:47:33,669 --> 01:47:30,719

cycle of the ages and

2543

01:47:34,470 --> 01:47:33,679

yeah as they were writing about it

2544

01:47:36,070 --> 01:47:34,480

there's a

2545

01:47:38,070 --> 01:47:36,080

cute story at the beginning of the book

2546

01:47:40,950 --> 01:47:38,080

about hertha who's

2547

01:47:43,030 --> 01:47:40,960

just a brilliant scholar i think she she

2548

01:47:43,830 --> 01:47:43,040

started off as an anthropologist before

2549

01:47:46,790 --> 01:47:43,840

she

2550

01:47:48,870 --> 01:47:46,800

hooked up with giorgio who was professor

2551

01:47:52,550 --> 01:47:48,880

of the history of science

2552

01:47:56,390 --> 01:47:52,560

um and i think at mit

2553

01:47:59,189 --> 01:47:56,400

yeah but anyway she talks about

2554

01:48:01,350 --> 01:47:59,199

how she's trying to understand what

2555

01:48:02,709 --> 01:48:01,360

ancient cultures knew about astronomy

2556

01:48:04,550 --> 01:48:02,719

because it

2557

01:48:06,310 --> 01:48:04,560

at first they're just trying to discover

2558

01:48:08,709 --> 01:48:06,320

where science came from

2559

01:48:09,910 --> 01:48:08,719

uh and they think well early people must

2560

01:48:11,510 --> 01:48:09,920

have been counting

2561

01:48:13,030 --> 01:48:11,520

and if they were counting they probably

2562

01:48:15,750 --> 01:48:13,040

started with things like

2563

01:48:17,189 --> 01:48:15,760

stars and constellations so we better

2564

01:48:19,910 --> 01:48:17,199

understand all this

2565

01:48:21,830 --> 01:48:19,920

mythology that seems to have something

2566

01:48:25,109 --> 01:48:21,840

to do with the stars

2567

01:48:28,229 --> 01:48:25,119

and she said she was studying the

2568

01:48:28,790 --> 01:48:28,239

uh pollination myth and she'd read like

2569

01:48:31,750 --> 01:48:28,800

10

2570

01:48:33,030 --> 01:48:31,760

000 pages and she was completely

2571

01:48:36,390 --> 01:48:33,040

befuddled

2572

01:48:39,270 --> 01:48:36,400

until she realized that it's uh

2573

01:48:41,430 --> 01:48:39,280

they're using the sky as a as a

2574

01:48:45,350 --> 01:48:41,440

framework to talk about

2575

01:48:46,070 --> 01:48:45,360

uh you know literally long periods of

2576

01:48:50,310 --> 01:48:46,080

time

2577

01:48:53,590 --> 01:48:50,320

and and events and so when you know

2578

01:48:56,149 --> 01:48:53,600

when the god jupiter fights with

2579

01:48:57,669 --> 01:48:56,159

the great bull in the sky you know it's

2580

01:49:01,430 --> 01:48:57,679

it's the planet jupiter

2581

01:49:04,790 --> 01:49:01,440

intersecting taurus and uh

2582

01:49:05,350 --> 01:49:04,800

you know the the myth itself can tell

2583

01:49:07,510 --> 01:49:05,360

you

2584

01:49:08,629 --> 01:49:07,520

uh when it happened and where it

2585

01:49:11,750 --> 01:49:08,639

happened

2586

01:49:12,310 --> 01:49:11,760

and and so yeah they they basically came

2587

01:49:16,229 --> 01:49:12,320

to the

2588

01:49:19,430 --> 01:49:16,239

conclusion that uh that

2589

01:49:22,629 --> 01:49:19,440

ancient cultures had their own

2590

01:49:26,229 --> 01:49:22,639

uh sir isaac newtons and

2591

01:49:29,430 --> 01:49:26,239

uh kepler's aristotle's etc

2592

01:49:30,310 --> 01:49:29,440

and and we sort of denigrate them

2593

01:49:33,430 --> 01:49:30,320

because this

2594

01:49:37,109 --> 01:49:33,440

this idea of evolution has become

2595

01:49:38,950 --> 01:49:37,119

so ingrained it kind of says to us

2596

01:49:40,830 --> 01:49:38,960

well anything that came before us must

2597

01:49:44,229 --> 01:49:40,840

be more primitive

2598

01:49:47,750 --> 01:49:44,239

um and so we've again we've we've really

2599

01:49:49,910 --> 01:49:47,760

lost sight of of our

2600

01:49:51,189 --> 01:49:49,920

ancient beautiful past and i think when

2601

01:49:54,629 --> 01:49:51,199

we try to

2602

01:49:57,669 --> 01:49:54,639

start to treat evolution and darwin

2603

01:49:58,870 --> 01:49:57,679

a little more gently that we gain a lot

2604

01:50:01,430 --> 01:49:58,880

of knowledge

2605

01:50:02,149 --> 01:50:01,440

uh about our own past and that can help

2606

01:50:06,550 --> 01:50:02,159

us

2607

01:50:08,149 --> 01:50:06,560

through some tough times and and so did

2608

01:50:09,350 --> 01:50:08,159

many other cultures so we should learn

2609

01:50:10,580 --> 01:50:09,360

from them

2610

01:50:12,790 --> 01:50:10,590

when uh

2611

01:50:16,950 --> 01:50:12,800

[Music]

2612

01:50:19,510 --> 01:50:16,960

when we look at when we look at the past

2613

01:50:21,589 --> 01:50:19,520

and we just brought up edwin uh hubble

2614

01:50:23,589 --> 01:50:21,599

and what happened in 1922 that was a

2615

01:50:24,390 --> 01:50:23,599

revolutionary event and if we think

2616

01:50:26,310 --> 01:50:24,400

about

2617

01:50:28,310 --> 01:50:26,320

all of the knowledge that was acquired

2618

01:50:30,070 --> 01:50:28,320

before then we're talking about a static

2619

01:50:32,870 --> 01:50:30,080

universe but static

2620

01:50:34,629 --> 01:50:32,880

was science in general right it was very

2621

01:50:36,390 --> 01:50:34,639

hard to push and shove

2622

01:50:37,669 --> 01:50:36,400

your way through we didn't know a whole

2623

01:50:41,669 --> 01:50:37,679

lot but

2624

01:50:46,229 --> 01:50:41,679

hubble's name comes up again

2625

01:50:50,310 --> 01:50:46,239

when the first images came in

2626

01:50:53,830 --> 01:50:50,320

uh from the hubble telescope

2627

01:50:57,350 --> 01:50:53,840

which if we think about it

2628

01:50:58,870 --> 01:50:57,360

was probably more important those first

2629

01:51:01,910 --> 01:50:58,880

images from hubble

2630

01:51:04,229 --> 01:51:01,920

than what hubble did in 1922

2631

01:51:06,470 --> 01:51:04,239

and maybe the most important image in

2632

01:51:09,669 --> 01:51:06,480

the history of man when you

2633

01:51:11,990 --> 01:51:09,679

first saw uh hubble's uh

2634

01:51:16,470 --> 01:51:12,000

the hubble telescopes uh first images

2635

01:51:16,480 --> 01:51:19,669

well

2636

01:51:24,310 --> 01:51:22,709

you know obviously a sense of awe but

2637

01:51:26,629 --> 01:51:24,320

to paint this picture a little more

2638

01:51:28,550 --> 01:51:26,639

clearly they had been using the

2639

01:51:29,750 --> 01:51:28,560

hubble telescope for all sorts of

2640

01:51:32,470 --> 01:51:29,760

purposes

2641

01:51:33,430 --> 01:51:32,480

uh but it was a very valuable resource

2642

01:51:35,589 --> 01:51:33,440

and so they didn't

2643

01:51:36,950 --> 01:51:35,599

spend that much time looking at any one

2644

01:51:39,669 --> 01:51:36,960

object and they looked

2645

01:51:40,950 --> 01:51:39,679

at planets and and distant galaxies and

2646

01:51:43,109 --> 01:51:40,960

that sort of thing

2647

01:51:45,669 --> 01:51:43,119

uh but what i thought was the most

2648

01:51:47,510 --> 01:51:45,679

interesting picture was the uh

2649

01:51:49,589 --> 01:51:47,520

what do they call it the far field yeah

2650

01:51:52,229 --> 01:51:49,599

the deep field deep field

2651  
01:51:54,470 --> 01:51:52,239  
the deep deep field yeah so they they

2652  
01:51:58,470 --> 01:51:54,480  
took a part of the sky

2653  
01:52:00,550 --> 01:51:58,480  
where it's just as black as black can be

2654  
01:52:02,870 --> 01:52:00,560  
and then they zeroed in on that and

2655  
01:52:04,950 --> 01:52:02,880  
eliminated any stars they could see

2656  
01:52:07,430 --> 01:52:04,960  
to find the blackest part of that black

2657  
01:52:12,870 --> 01:52:07,440  
part of the sky and it happens to be

2658  
01:52:15,589 --> 01:52:12,880  
up in i think part of the big dipper

2659  
01:52:16,709 --> 01:52:15,599  
and then they they did something that

2660  
01:52:19,589 --> 01:52:16,719  
other scientists

2661  
01:52:20,070 --> 01:52:19,599  
argued against and that was they held

2662  
01:52:23,669 --> 01:52:20,080  
the

2663  
01:52:27,189 --> 01:52:23,679

forty hours

2664

01:52:30,390 --> 01:52:27,199

yeah two weeks um yeah two weeks yeah

2665

01:52:33,189 --> 01:52:30,400

yeah and so they uh you know

2666

01:52:33,910 --> 01:52:33,199

these these light uh particles these

2667

01:52:37,109 --> 01:52:33,920

photons

2668

01:52:40,070 --> 01:52:37,119

come in very slowly from very

2669

01:52:41,109 --> 01:52:40,080

distant objects i i once went with jeff

2670

01:52:43,750 --> 01:52:41,119

marcy up to

2671

01:52:44,870 --> 01:52:43,760

uh the keck telescope on the big island

2672

01:52:47,750 --> 01:52:44,880

of hawaii

2673

01:52:48,790 --> 01:52:47,760

and he was looking for you know

2674

01:52:51,030 --> 01:52:48,800

exoplanets

2675

01:52:51,990 --> 01:52:51,040

around other stars and the way they do

2676

01:52:54,470 --> 01:52:52,000

it is they

2677

01:52:56,830 --> 01:52:54,480

they look at these distant stars and

2678

01:52:59,669 --> 01:52:56,840

then see if there's anything that

2679

01:53:01,270 --> 01:52:59,679

slightly decreases the amount of photons

2680

01:53:03,030 --> 01:53:01,280

you're getting and some of these stars

2681

01:53:05,189 --> 01:53:03,040

are way out there and so they're only

2682

01:53:07,510 --> 01:53:05,199

getting a few photons to begin with

2683

01:53:09,109 --> 01:53:07,520

but imagine how few photons you get from

2684

01:53:10,790 --> 01:53:09,119

a very distant galaxy

2685

01:53:13,350 --> 01:53:10,800

but anyway they held it there long

2686

01:53:14,790 --> 01:53:13,360

enough to build these photons up and

2687

01:53:15,990 --> 01:53:14,800

then when of course they looked at the

2688

01:53:19,109 --> 01:53:16,000

picture

2689

01:53:21,270 --> 01:53:19,119

everybody's mind was blown

2690

01:53:22,629 --> 01:53:21,280

i think you know in a in a size of the

2691

01:53:25,270 --> 01:53:22,639

sky i think it's

2692

01:53:25,990 --> 01:53:25,280

what is it like one 30 millionth of the

2693

01:53:29,270 --> 01:53:26,000

sky something

2694

01:53:32,790 --> 01:53:29,280

like that it would it'd be a very thin

2695

01:53:37,270 --> 01:53:36,149

they found with it over 3 000 galaxies

2696

01:53:39,109 --> 01:53:37,280

on the first

2697

01:53:41,109 --> 01:53:39,119

take and then something like on the

2698

01:53:43,270 --> 01:53:41,119

ultra deep field i think they found over

2699

01:53:46,390 --> 01:53:43,280

5000 galaxies that's right

2700

01:53:47,990 --> 01:53:46,400

and and and this is what is

2701

01:53:50,629 --> 01:53:48,000

uh amazing about that i've done

2702

01:53:52,550 --> 01:53:50,639

presentations on on the deep field and

2703

01:53:56,870 --> 01:53:52,560

the ultra deep field

2704

01:53:59,350 --> 01:53:56,880

when they okay they already had

2705

01:54:00,629 --> 01:53:59,360

in the the part of the sky that they

2706

01:54:03,669 --> 01:54:00,639

were looking at

2707

01:54:04,310 --> 01:54:03,679

that there was 50 000 galaxies in the in

2708

01:54:06,790 --> 01:54:04,320

the field

2709

01:54:08,390 --> 01:54:06,800

of view right and that that's

2710

01:54:10,229 --> 01:54:08,400

extraordinary enough

2711

01:54:11,750 --> 01:54:10,239

but then they're looking and they go

2712

01:54:14,950 --> 01:54:11,760

okay what is

2713

01:54:18,070 --> 01:54:14,960

the uh what is the most

2714

01:54:21,109 --> 01:54:18,080

uh uninteresting uh

2715

01:54:22,550 --> 01:54:21,119

slice of this picture what is okay well

2716

01:54:25,990 --> 01:54:22,560

it's right here

2717

01:54:26,390 --> 01:54:26,000

okay there's nothing here so let's focus

2718

01:54:30,790 --> 01:54:26,400

on

2719

01:54:33,109 --> 01:54:30,800

around us

2720

01:54:34,870 --> 01:54:33,119

and that's interesting enough they go

2721

01:54:37,350 --> 01:54:34,880

and they focus for two weeks

2722

01:54:38,550 --> 01:54:37,360

on a little pin prick in the middle of

2723

01:54:40,470 --> 01:54:38,560

this image

2724

01:54:42,709 --> 01:54:40,480

and they come up with the deep field

2725

01:54:45,510 --> 01:54:42,719

which looked identical

2726  
01:54:46,550 --> 01:54:45,520  
to the image that they already had but

2727  
01:54:48,709 --> 01:54:46,560  
it was just

2728  
01:54:50,149 --> 01:54:48,719  
and then they went deeper into that with

2729  
01:54:53,350 --> 01:54:50,159  
the ultra deep field

2730  
01:54:57,510 --> 01:54:53,360  
uh which is it was um

2731  
01:54:59,990 --> 01:54:57,520  
to me uh it's it's fun to look at

2732  
01:55:01,830 --> 01:55:00,000  
but each one of those galaxies and all

2733  
01:55:05,030 --> 01:55:01,840  
three of those images

2734  
01:55:08,149 --> 01:55:05,040  
has 500 billion stars in it

2735  
01:55:09,430 --> 01:55:08,159  
each one right and it continues and it

2736  
01:55:12,790 --> 01:55:09,440  
continues

2737  
01:55:19,669 --> 01:55:12,800  
continue

2738  
01:55:23,189 --> 01:55:19,679

extraordinary big big moment in history

2739

01:55:24,870 --> 01:55:23,199

very much so and i can

2740

01:55:26,790 --> 01:55:24,880

you know i can only imagine what they'd

2741

01:55:29,030 --> 01:55:26,800

see if they looked for a thousand hours

2742

01:55:29,830 --> 01:55:29,040

or two thousand hours or ten thousand

2743

01:55:31,189 --> 01:55:29,840

hours

2744

01:55:33,030 --> 01:55:31,199

they'd probably just keep showing up

2745

01:55:35,750 --> 01:55:33,040

more and to me it

2746

01:55:37,750 --> 01:55:35,760

kind of raises uh again a sort of a

2747

01:55:40,070 --> 01:55:37,760

spiritual question so

2748

01:55:40,790 --> 01:55:40,080

you look at the darkest part of the sky

2749

01:55:43,830 --> 01:55:40,800

at

2750

01:55:44,709 --> 01:55:43,840

literally nothing and if you look long

2751  
01:55:47,669 --> 01:55:44,719  
enough

2752  
01:55:48,229 --> 01:55:47,679  
uh it it reveals this incredible beauty

2753  
01:55:53,669 --> 01:55:48,239  
and

2754  
01:55:55,030 --> 01:55:53,679  
just shows you how amazing this universe

2755  
01:55:57,189 --> 01:55:55,040  
is when uh

2756  
01:55:58,070 --> 01:55:57,199  
uh we keep going back to the spiritual

2757  
01:55:59,669 --> 01:55:58,080  
side of things

2758  
01:56:01,430 --> 01:55:59,679  
and uh we're gonna head towards a break

2759  
01:56:04,390 --> 01:56:01,440  
right here but

2760  
01:56:06,550 --> 01:56:04,400  
from a philosophical point of view

2761  
01:56:11,510 --> 01:56:06,560  
putting science aside

2762  
01:56:16,709 --> 01:56:11,520  
um how does the transition happen

2763  
01:56:19,430 --> 01:56:16,719

from a particle any particle

2764

01:56:20,790 --> 01:56:19,440

how does that go from combining

2765

01:56:25,350 --> 01:56:20,800

particles

2766

01:56:28,470 --> 01:56:25,360

into you and i enjoying chocolate cake

2767

01:56:31,910 --> 01:56:28,480

right that doesn't it's a very

2768

01:56:35,189 --> 01:56:31,920

tough thing but we've been

2769

01:56:36,870 --> 01:56:35,199

contemplating this for eons but but how

2770

01:56:39,750 --> 01:56:36,880

does that transition take place for

2771

01:56:43,669 --> 01:56:42,070

well it raises a question of who we are

2772

01:56:47,990 --> 01:56:43,679

and what we are

2773

01:56:49,990 --> 01:56:48,000

and and what is what is god and you know

2774

01:56:51,830 --> 01:56:50,000

and is is it actually indeed separate

2775

01:56:55,910 --> 01:56:51,840

than what we are

2776

01:56:57,910 --> 01:56:55,920

um but all you know i i don't even think

2777

01:56:58,310 --> 01:56:57,920

we can describe it in scientific terms

2778

01:57:00,550 --> 01:56:58,320

uh

2779

01:57:01,910 --> 01:57:00,560

i've heard it described in poetic terms

2780

01:57:05,589 --> 01:57:01,920

that you know

2781

01:57:06,550 --> 01:57:05,599

that that the creator was curious and so

2782

01:57:16,629 --> 01:57:06,560

he

2783

01:57:19,990 --> 01:57:16,639

around

2784

01:57:22,870 --> 01:57:20,000

and uh and became animals

2785

01:57:23,589 --> 01:57:22,880

and and then he wanted to understand

2786

01:57:26,790 --> 01:57:23,599

himself

2787

01:57:28,870 --> 01:57:26,800

and he became man and uh

2788

01:57:30,229 --> 01:57:28,880

yeah we're at a journey what a journey

2789

01:57:33,270 --> 01:57:30,239

it's all related

2790

01:57:36,629 --> 01:57:33,280

to

2791

01:57:39,669 --> 01:57:36,639

evolution in my opinion well uh

2792

01:57:43,030 --> 01:57:39,679

the closest uh i've

2793

01:57:44,470 --> 01:57:43,040

heard any brian greene i speak about

2794

01:57:46,149 --> 01:57:44,480

brian green a lot because

2795

01:57:48,149 --> 01:57:46,159

uh you know i read his stuff and i

2796

01:57:50,470 --> 01:57:48,159

listen to all his presentations and all

2797

01:57:54,310 --> 01:57:50,480

of his interviews all his tv shows

2798

01:58:00,310 --> 01:57:54,320

uh multiple times uh my wife rita

2799

01:58:04,870 --> 01:58:03,109

uh i've listened to more to brian greene

2800

01:58:07,589 --> 01:58:04,880

than i did

2801  
01:58:09,350 --> 01:58:07,599  
kiss albums when i was 15 just to put it

2802  
01:58:12,629 --> 01:58:09,360  
into perspective for you

2803  
01:58:16,790 --> 01:58:12,639  
so the uh but he said

2804  
01:58:20,470 --> 01:58:16,800  
that he believes that it is possible

2805  
01:58:23,830 --> 01:58:20,480  
that every particle every

2806  
01:58:27,750 --> 01:58:23,840  
the smallest of the small has a tiny

2807  
01:58:31,430 --> 01:58:27,760  
bit of consciousness to it

2808  
01:58:33,830 --> 01:58:31,440  
and the more that you amass then

2809  
01:58:34,790 --> 01:58:33,840  
consciousness accumulates and becomes

2810  
01:58:37,830 --> 01:58:34,800  
bigger

2811  
01:58:39,830 --> 01:58:37,840  
and that's why it with our brains with

2812  
01:58:40,950 --> 01:58:39,840  
all the trillions of connections and

2813  
01:58:44,229 --> 01:58:40,960

neurons

2814

01:58:50,390 --> 01:58:44,239

that um consciousness

2815

01:58:54,149 --> 01:58:53,589

yeah it's like uh some scientists are

2816

01:58:56,870 --> 01:58:54,159

coming

2817

01:58:57,830 --> 01:58:56,880

back around to the to the hoary vedas

2818

01:59:02,470 --> 01:58:57,840

you know which

2819

01:59:06,470 --> 01:59:02,480

which basically tell us that you know

2820

01:59:08,950 --> 01:59:06,480

god is omnipresent omniscient omnipotent

2821

01:59:09,589 --> 01:59:08,960

existing everywhere in all things

2822

01:59:13,430 --> 01:59:09,599

therefore

2823

01:59:16,149 --> 01:59:13,440

all things must have some consciousness

2824

01:59:17,669 --> 01:59:16,159

and of course we feel we're very

2825

01:59:18,950 --> 01:59:17,679

separate from that right now and that

2826  
01:59:21,270 --> 01:59:18,960  
allows us to

2827  
01:59:22,229 --> 01:59:21,280  
to talk and communicate ideas back and

2828  
01:59:25,030 --> 01:59:22,239  
forth

2829  
01:59:25,750 --> 01:59:25,040  
but i wonder if brian green and and the

2830  
01:59:31,669 --> 01:59:25,760  
great

2831  
01:59:34,629 --> 01:59:31,679  
vedic yogi's art are telling the truth

2832  
01:59:36,149 --> 01:59:34,639  
he would man he would blow a gasket if

2833  
01:59:37,350 --> 01:59:36,159  
he heard you and i talking like this

2834  
01:59:40,550 --> 01:59:37,360  
about him

2835  
01:59:44,390 --> 01:59:40,560  
no no no that's not what i meant no

2836  
01:59:47,750 --> 01:59:44,400  
was just talking about chemistry

2837  
01:59:50,390 --> 01:59:47,760  
oh no no no no i didn't even imply

2838  
01:59:52,070 --> 01:59:50,400

a spiritual twist to this this is fade

2839

01:59:54,310 --> 01:59:52,080

to black i'm yours jimmy church

2840

01:59:56,149 --> 01:59:54,320

the one and only walter cruttenden more

2841

01:59:59,109 --> 01:59:56,159

with walter after this short break

2842

02:00:00,300 --> 01:59:59,119

on the game changer network and kgra the

2843

02:00:09,510 --> 02:00:00,310

planet stay with us

2844

02:00:12,270 --> 02:00:09,520

[Music]

2845

02:00:12,280 --> 02:00:17,109

jimmychurchradio.com

2846

02:00:20,629 --> 02:00:19,589

this is kgra digital broadcasting

2847

02:00:24,310 --> 02:00:20,639

station

2848

02:00:26,149 --> 02:00:24,320

salt lake city utah van buren arkansas

2849

02:00:28,310 --> 02:00:26,159

why is it we're not very good with our

2850

02:00:29,990 --> 02:00:28,320

health regiment until it's too late we

2851

02:00:31,910 --> 02:00:30,000

don't put oil in the car until the

2852

02:00:32,629 --> 02:00:31,920

engine blows up when the body's out of

2853

02:00:34,790 --> 02:00:32,639

balance

2854

02:00:35,910 --> 02:00:34,800

your health is not so good give your

2855

02:00:39,189 --> 02:00:35,920

body some love

2856

02:00:41,430 --> 02:00:39,199

log on to get the tea.com that's get the

2857

02:00:43,830 --> 02:00:41,440

dot com try our life change tea which

2858

02:00:45,990 --> 02:00:43,840

cleanses you from harmful intruders

2859

02:00:47,510 --> 02:00:46,000

a clean colon is one of the ways to

2860

02:00:49,510 --> 02:00:47,520

bring the body in balance

2861

02:00:51,750 --> 02:00:49,520

we also carry organic supplements to

2862

02:00:54,030 --> 02:00:51,760

help you get where you need to go

2863

02:00:58,149 --> 02:00:54,040

so do your body a favor log on to

2864

02:01:00,390 --> 02:00:58,159

getthetea.com that's get the ttea.com

2865

02:01:01,589 --> 02:01:00,400

you can even visit our sales page to

2866

02:01:03,910 --> 02:01:01,599

save some dough

2867

02:01:05,589 --> 02:01:03,920

does anybody call money dough anymore

2868

02:01:06,870 --> 02:01:05,599

anyway if you're looking for short

2869

02:01:09,270 --> 02:01:06,880

helpful health tips

2870

02:01:10,629 --> 02:01:09,280

go to youtube and punch in health

2871

02:01:17,750 --> 02:01:10,639

matters now

2872

02:01:18,390 --> 02:01:17,760

log on to get the tea.com shop get

2873

02:01:20,709 --> 02:01:18,400

balanced

2874

02:01:21,430 --> 02:01:20,719

then learn some cool tips at health

2875

02:01:23,430 --> 02:01:21,440

matters

2876

02:01:25,910 --> 02:01:23,440

now you'll be glad you did that's get

2877

02:01:27,910 --> 02:01:25,920

the tea.com

2878

02:01:28,990 --> 02:01:27,920

your contact for current news and

2879

02:01:30,830 --> 02:01:29,000

trending topics

2880

02:01:32,709 --> 02:01:30,840

[Music]

2881

02:01:34,550 --> 02:01:32,719

kgraradio.com

2882

02:01:36,310 --> 02:01:34,560

this is jimmy church of fade to black

2883

02:01:39,510 --> 02:01:36,320

and i only drink

2884

02:01:40,149 --> 02:01:39,520

fade to black blend coffee from river

2885

02:01:44,470 --> 02:01:40,159

moon

2886

02:01:47,750 --> 02:01:44,480

banner at jimmychurchradio.com

2887

02:01:50,229 --> 02:01:47,760

promo code f2b blend

2888

02:01:52,310 --> 02:01:50,239

so are you tired of being tired well

2889

02:01:54,070 --> 02:01:52,320

then it's time to get the tea

2890

02:01:55,430 --> 02:01:54,080

hey it's lisa here to tell you about

2891

02:01:57,750 --> 02:01:55,440

this all natural all

2892

02:02:00,070 --> 02:01:57,760

organic tea i've been drinking that has

2893

02:02:02,629 --> 02:02:00,080

had great results for over 20 years

2894

02:02:04,709 --> 02:02:02,639

it's called life change tea and it's

2895

02:02:06,070 --> 02:02:04,719

specially formulated to help detoxify

2896

02:02:09,030 --> 02:02:06,080

and cleanse your kidneys

2897

02:02:10,870 --> 02:02:09,040

liver colon and blood all at once the

2898

02:02:11,910 --> 02:02:10,880

colon is one of the most ignored organs

2899

02:02:14,070 --> 02:02:11,920

in the human body

2900

02:02:16,070 --> 02:02:14,080

the faster that waste is eliminated from

2901  
02:02:17,910 --> 02:02:16,080  
the body the less time that waste sits

2902  
02:02:18,950 --> 02:02:17,920  
in our intestines spreading toxins to

2903  
02:02:21,030 --> 02:02:18,960  
our bloodstream

2904  
02:02:22,390 --> 02:02:21,040  
this tea helps cleanse chemicals caused

2905  
02:02:24,550 --> 02:02:22,400  
by outside intruders

2906  
02:02:26,070 --> 02:02:24,560  
from our entire digestive system and get

2907  
02:02:28,629 --> 02:02:26,080  
this weight loss

2908  
02:02:29,669 --> 02:02:28,639  
can be a side effect and with continued

2909  
02:02:31,830 --> 02:02:29,679  
use of the tea

2910  
02:02:33,109 --> 02:02:31,840  
you can experience clear healthier

2911  
02:02:35,430 --> 02:02:33,119  
younger looking skin

2912  
02:02:37,189 --> 02:02:35,440  
increased energy and a happier outlook

2913  
02:02:37,910 --> 02:02:37,199

on life so if you're tired of being

2914

02:02:40,310 --> 02:02:37,920

tired

2915

02:02:41,510 --> 02:02:40,320

get the life change tea at get the

2916

02:02:46,709 --> 02:02:41,520

tea.com

2917

02:02:48,070 --> 02:02:46,719

you'll be glad you did

2918

02:02:50,229 --> 02:02:48,080

did you know that when you're on the

2919

02:02:52,310 --> 02:02:50,239

road with limited data or wi-fi

2920

02:02:56,350 --> 02:02:52,320

available you can still listen to every

2921

02:02:57,750 --> 02:02:56,360

minute of fade to black by just calling

2922

02:03:00,550 --> 02:02:57,760

605-562-4482

2923

02:03:02,870 --> 02:03:00,560

no smartphone app or internet needed it

2924

02:03:04,870 --> 02:03:02,880

saves your data plan and no extra cost

2925

02:03:08,870 --> 02:03:04,880

if you have unlimited minutes

2926

02:03:11,109 --> 02:03:08,880

just call 605-562-4482

2927

02:03:12,229 --> 02:03:11,119

you can listen to me jimmy church on any

2928

02:03:19,690 --> 02:03:12,239

phone anytime

2929

02:03:24,470 --> 02:03:21,390

[Music]

2930

02:03:28,629 --> 02:03:24,480

[Applause]

2931

02:03:31,669 --> 02:03:28,639

you wanna know a secret i love police

2932

02:03:33,350 --> 02:03:31,679

i really love ponies i'm serious i

2933

02:03:35,109 --> 02:03:33,360

couldn't stay sane without pawn

2934

02:03:38,310 --> 02:03:35,119

instabrush

2935

02:03:43,589 --> 02:03:38,320

why fade to black because you never got

2936

02:03:45,830 --> 02:03:43,599

that pony

2937

02:03:48,149 --> 02:03:45,840

this is fade to black with jimmy church

2938

02:03:57,680 --> 02:03:48,159

on the game changer radio network

2939

02:04:04,950 --> 02:03:57,690

and kgra the global radio alliance

2940

02:04:06,310 --> 02:04:04,960

[Music]

2941

02:04:07,830 --> 02:04:06,320

welcome back fade to black i'm your host

2942

02:04:09,430 --> 02:04:07,840

jimmy church our guest tonight walter

2943

02:04:12,069 --> 02:04:09,440

cruttenden

2944

02:04:14,629 --> 02:04:12,079

on the game changer network and kg r a

2945

02:04:18,950 --> 02:04:14,639

the planet you can follow me on twitter

2946

02:04:23,189 --> 02:04:18,960

at j church radio and

2947

02:04:26,790 --> 02:04:25,270

you know i'm not tweeting right now yeah

2948

02:04:29,669 --> 02:04:26,800

i i looked for it

2949

02:04:32,149 --> 02:04:29,679

and i just wanted to make sure that we

2950

02:04:33,910 --> 02:04:32,159

were correct

2951  
02:04:35,669 --> 02:04:33,920  
there were just there's so many things

2952  
02:04:39,629 --> 02:04:35,679  
to do in this life

2953  
02:04:42,310 --> 02:04:39,639  
um but most of our work is at uh

2954  
02:04:44,390 --> 02:04:42,320  
binaryresearchinstitute.com um

2955  
02:04:45,669 --> 02:04:44,400  
well i found it there yeah and i don't

2956  
02:04:46,629 --> 02:04:45,679  
know if you know this walter but

2957  
02:04:50,470 --> 02:04:46,639  
twitter's gonna be

2958  
02:04:52,790 --> 02:04:50,480  
big it's gonna be big one day

2959  
02:04:54,310 --> 02:04:52,800  
you might yeah you might want to get in

2960  
02:04:58,470 --> 02:04:54,320  
early you might want to

2961  
02:05:00,550 --> 02:04:58,480  
jump now um and speaking of the binary

2962  
02:05:01,430 --> 02:05:00,560  
research institute okay and talking

2963  
02:05:04,950 --> 02:05:01,440

about

2964

02:05:08,229 --> 02:05:04,960

uh science being one string of

2965

02:05:09,030 --> 02:05:08,239

corrections uh which uh it needs to be

2966

02:05:11,270 --> 02:05:09,040

that way

2967

02:05:12,149 --> 02:05:11,280

everything from the past has been

2968

02:05:15,189 --> 02:05:12,159

changed

2969

02:05:18,550 --> 02:05:15,199

uh to where we are today um and

2970

02:05:20,550 --> 02:05:18,560

not to um

2971

02:05:23,350 --> 02:05:20,560

not to present i don't want you to be

2972

02:05:26,790 --> 02:05:23,360

uncomfortable with what i'm about to say

2973

02:05:28,470 --> 02:05:26,800

a lot of your research uh that you have

2974

02:05:31,750 --> 02:05:28,480

been presenting

2975

02:05:35,109 --> 02:05:31,760

uh fairly aggressively um

2976

02:05:35,589 --> 02:05:35,119

is now starting to become part of the

2977

02:05:38,470 --> 02:05:35,599

norm

2978

02:05:40,069 --> 02:05:38,480

and part of the conversation binary star

2979

02:05:42,709 --> 02:05:40,079

systems two stars

2980

02:05:43,189 --> 02:05:42,719

we may have and should have a second

2981

02:05:44,950 --> 02:05:43,199

star

2982

02:05:46,950 --> 02:05:44,960

here in our solar system these are

2983

02:05:50,950 --> 02:05:46,960

concepts that were

2984

02:05:53,350 --> 02:05:50,960

fought and fought and now

2985

02:05:54,149 --> 02:05:53,360

cosmologists out there and astronomers

2986

02:05:57,589 --> 02:05:54,159

are finding

2987

02:06:00,149 --> 02:05:57,599

many many binary star systems out there

2988

02:06:04,149 --> 02:06:00,159

and they're starting to say

2989

02:06:06,390 --> 02:06:04,159

uh that maybe yeah most star systems are

2990

02:06:09,750 --> 02:06:06,400

binary and they have uh two stars

2991

02:06:10,149 --> 02:06:09,760

with planets that orbit them uh do you

2992

02:06:13,430 --> 02:06:10,159

think

2993

02:06:14,149 --> 02:06:13,440

this is part of your work or did were

2994

02:06:18,390 --> 02:06:14,159

they gonna

2995

02:06:20,950 --> 02:06:18,400

land this in in this direction anyway

2996

02:06:22,629 --> 02:06:20,960

oh i think things were going in that

2997

02:06:24,629 --> 02:06:22,639

direction since uh

2998

02:06:27,270 --> 02:06:24,639

you know people thought they were double

2999

02:06:28,830 --> 02:06:27,280

stars 150 years ago and then

3000

02:06:31,270 --> 02:06:28,840

a couple hundred years ago and then

3001  
02:06:31,669 --> 02:06:31,280  
telescopes uh with enough strength came

3002  
02:06:34,229 --> 02:06:31,679  
around

3003  
02:06:34,790 --> 02:06:34,239  
and a long enough observation period to

3004  
02:06:37,830 --> 02:06:34,800  
they could

3005  
02:06:39,189 --> 02:06:37,840  
see oh those stars seem to be orbiting

3006  
02:06:41,910 --> 02:06:39,199  
each other so

3007  
02:06:43,350 --> 02:06:41,920  
uh but you're right the quantity the the

3008  
02:06:45,990 --> 02:06:43,360  
percentage

3009  
02:06:47,109 --> 02:06:46,000  
was always thought to be low and that's

3010  
02:06:49,109 --> 02:06:47,119  
a number that

3011  
02:06:50,470 --> 02:06:49,119  
is in conformity with the points you

3012  
02:06:51,030 --> 02:06:50,480  
brought up at the very beginning of the

3013  
02:06:54,550 --> 02:06:51,040

show

3014

02:06:55,750 --> 02:06:54,560

that everything's increasing and so yeah

3015

02:06:58,390 --> 02:06:55,760

it seems that

3016

02:06:59,910 --> 02:06:58,400

uh especially when you now account for

3017

02:07:03,350 --> 02:06:59,920

brown dwarfs it

3018

02:07:06,470 --> 02:07:03,360

uh stars like companions

3019

02:07:09,910 --> 02:07:06,480

just as much as people do you know

3020

02:07:11,910 --> 02:07:09,920

and if if your last point is is has some

3021

02:07:13,109 --> 02:07:11,920

merit to it that you know everything is

3022

02:07:15,430 --> 02:07:13,119

conscious

3023

02:07:16,790 --> 02:07:15,440

maybe there's you know a relationship

3024

02:07:19,750 --> 02:07:16,800

going on there

3025

02:07:21,830 --> 02:07:19,760

uh and of course it's a gravitational

3026

02:07:23,669 --> 02:07:21,840

relationship the way we look at it

3027

02:07:24,870 --> 02:07:23,679

but maybe it's much deeper than we think

3028

02:07:28,069 --> 02:07:24,880

we um

3029

02:07:31,750 --> 02:07:28,079

who was the uh the great scientist

3030

02:07:35,189 --> 02:07:31,760

that uh i think he won the uh

3031

02:07:38,629 --> 02:07:35,199

nobel prize for for plasma physics

3032

02:07:41,990 --> 02:07:38,639

elfin yes yes yes yes

3033

02:07:44,390 --> 02:07:42,000

he said yeah that uh

3034

02:07:46,069 --> 02:07:44,400

stars actually communicate with each

3035

02:07:49,830 --> 02:07:46,079

other through long

3036

02:07:52,950 --> 02:07:49,840

plasma strings so they're basically

3037

02:07:55,750 --> 02:07:52,960

uh you know shooting out

3038

02:07:56,390 --> 02:07:55,760

huge amounts of plasma we know our sun

3039

02:07:58,950 --> 02:07:56,400

does this

3040

02:07:59,510 --> 02:07:58,960

of course because it affects earth uh

3041

02:08:02,790 --> 02:07:59,520

but

3042

02:08:03,990 --> 02:08:02,800

um that you know it just just continues

3043

02:08:05,750 --> 02:08:04,000

out there and so he

3044

02:08:07,750 --> 02:08:05,760

he kind of implied that that's the way

3045

02:08:10,870 --> 02:08:07,760

that stars

3046

02:08:14,229 --> 02:08:10,880

isn't that a beautiful thought it is and

3047

02:08:17,270 --> 02:08:14,239

uh there is uh uh

3048

02:08:20,950 --> 02:08:17,280

for me when we start to uh

3049

02:08:24,550 --> 02:08:20,960

to take this a step further is is this

3050

02:08:25,910 --> 02:08:24,560

we know now and i i can't wait to hear

3051

02:08:30,310 --> 02:08:25,920

your thoughts on this

3052

02:08:34,550 --> 02:08:30,320

we know now that the that our sun isn't

3053

02:08:37,990 --> 02:08:34,560

actually at the center uh a constant

3054

02:08:41,589 --> 02:08:38,000

of our solar system that it

3055

02:08:44,629 --> 02:08:41,599

its center its gravitational center

3056

02:08:48,149 --> 02:08:44,639

is moving right

3057

02:08:48,709 --> 02:08:48,159

it appears to be affected by something

3058

02:08:52,229 --> 02:08:48,719

else

3059

02:08:55,830 --> 02:08:52,239

out there i don't know if it's jupiter

3060

02:08:59,270 --> 02:08:55,840

is jupiter have a strong enough pull um

3061

02:09:01,990 --> 02:08:59,280

that if we look at the orbits of all of

3062

02:09:03,030 --> 02:09:02,000

our planets in our solar system that

3063

02:09:05,990 --> 02:09:03,040

they are not

3064

02:09:07,189 --> 02:09:06,000  
orbiting necessarily the sun that

3065

02:09:10,950 --> 02:09:07,199  
they're orbiting

3066

02:09:12,950 --> 02:09:10,960  
a center that is gravitationally

3067

02:09:17,189 --> 02:09:12,960  
something else

3068

02:09:20,229 --> 02:09:19,270  
uh yeah so there's this concept of a

3069

02:09:24,069 --> 02:09:20,239  
berry center

3070

02:09:27,030 --> 02:09:24,079  
uh which is um you know

3071

02:09:28,069 --> 02:09:27,040  
the gravitational center of our solar

3072

02:09:31,430 --> 02:09:28,079  
system

3073

02:09:33,910 --> 02:09:31,440  
um and but it's it's mostly imputed so

3074

02:09:34,470 --> 02:09:33,920  
yes when it's was believed that there's

3075

02:09:37,430 --> 02:09:34,480  
uh

3076

02:09:39,750 --> 02:09:37,440

the only big thing out there is is

3077

02:09:43,030 --> 02:09:39,760

jupiter

3078

02:09:44,950 --> 02:09:43,040

it's it's imputed that the very center

3079

02:09:46,069 --> 02:09:44,960

of the sun is somewhere near the edge of

3080

02:09:49,750 --> 02:09:46,079

the sun

3081

02:09:50,390 --> 02:09:49,760

facing jupiter and so that would be sort

3082

02:09:53,510 --> 02:09:50,400

of the

3083

02:09:55,669 --> 02:09:53,520

equal point and and you know

3084

02:09:57,510 --> 02:09:55,679

any two gravitationally bound objects

3085

02:10:02,149 --> 02:09:57,520

have a have a berry center

3086

02:10:04,229 --> 02:10:02,159

or a common center of mass and so

3087

02:10:05,830 --> 02:10:04,239

just talking about binary stars so if

3088

02:10:08,470 --> 02:10:05,840

you have one that's

3089

02:10:08,870 --> 02:10:08,480

you know two solar masses and one that's

3090

02:10:11,109 --> 02:10:08,880

one

3091

02:10:12,550 --> 02:10:11,119

solar mass the bary center will be

3092

02:10:16,149 --> 02:10:12,560

closer to the

3093

02:10:19,830 --> 02:10:16,159

heavier one of course

3094

02:10:22,550 --> 02:10:19,840

and so yeah as they find

3095

02:10:23,030 --> 02:10:22,560

more objects in the solar system which

3096

02:10:26,870 --> 02:10:23,040

they are

3097

02:10:28,950 --> 02:10:26,880

doing they it leads them to

3098

02:10:30,390 --> 02:10:28,960

sort of recalculate where the barrier

3099

02:10:32,229 --> 02:10:30,400

center might be but

3100

02:10:33,430 --> 02:10:32,239

what's what's really interesting about

3101

02:10:36,310 --> 02:10:33,440

this in

3102

02:10:37,510 --> 02:10:36,320

in my opinion is that and we talked

3103

02:10:39,270 --> 02:10:37,520

about this a little at the beginning

3104

02:10:42,390 --> 02:10:39,280

that the entire

3105

02:10:44,310 --> 02:10:42,400

uh solar system is is being tilted a

3106

02:10:47,350 --> 02:10:44,320

little bit towards the southwest

3107

02:10:49,910 --> 02:10:47,360

and we know that by all these exo

3108

02:10:50,629 --> 02:10:49,920

uh i'm sorry these uh dwarf planets

3109

02:10:57,189 --> 02:10:50,639

they're

3110

02:11:01,189 --> 02:10:57,199

roughly 17 degrees to the plane right

3111

02:11:04,229 --> 02:11:01,199

by biden sedna all these others

3112

02:11:06,950 --> 02:11:04,239

uh are in a similar uh

3113

02:11:08,229 --> 02:11:06,960

inclination and and they're all sort of

3114

02:11:10,950 --> 02:11:08,239

pointing out

3115

02:11:12,229 --> 02:11:10,960

uh towards a direction and that uh

3116

02:11:14,629 --> 02:11:12,239

towards

3117

02:11:16,629 --> 02:11:14,639

somewhere between sirius and orion and

3118

02:11:17,830 --> 02:11:16,639

that is where the search is on for the

3119

02:11:20,310 --> 02:11:17,840

ninth planet

3120

02:11:21,830 --> 02:11:20,320

this other big mass that must be

3121

02:11:25,189 --> 02:11:21,840

affecting

3122

02:11:27,830 --> 02:11:25,199

our planet you know when i was on

3123

02:11:28,550 --> 02:11:27,840

on the commercial i listened i think it

3124

02:11:31,510 --> 02:11:28,560

was some surf

3125

02:11:32,950 --> 02:11:31,520

music i really liked um and it reminds

3126

02:11:35,270 --> 02:11:32,960

me when i was going to

3127

02:11:36,310 --> 02:11:35,280

to the beach a lot when i was a kid you

3128

02:11:38,310 --> 02:11:36,320

know we'd come down

3129

02:11:41,589 --> 02:11:38,320

after a storm and we see the entire

3130

02:11:43,350 --> 02:11:41,599

beach is rearranged

3131

02:11:45,510 --> 02:11:43,360

and i'd read about that storm and i'd

3132

02:11:46,950 --> 02:11:45,520

hear that that storm was off new zealand

3133

02:11:48,629 --> 02:11:46,960

or australia or something

3134

02:11:50,790 --> 02:11:48,639

and the waves traveled all this way

3135

02:11:51,669 --> 02:11:50,800

across the ocean and rearranged our

3136

02:11:54,069 --> 02:11:51,679

beaches

3137

02:11:55,109 --> 02:11:54,079

that is what is happening to our solar

3138

02:11:58,310 --> 02:11:55,119

system

3139

02:11:59,589 --> 02:11:58,320  
something very far out there very

3140

02:12:02,790 --> 02:11:59,599  
massive

3141

02:12:05,910 --> 02:12:02,800  
is moving and affecting uh

3142

02:12:08,310 --> 02:12:05,920  
and rearranging our dwarf planets into a

3143

02:12:11,510 --> 02:12:08,320  
certain shape a certain pattern

3144

02:12:13,350 --> 02:12:11,520  
that can it's a signature of some

3145

02:12:14,709 --> 02:12:13,360  
massive object that

3146

02:12:16,790 --> 02:12:14,719  
you know many astronomers are looking

3147

02:12:18,550 --> 02:12:16,800  
for right now are you in communication

3148

02:12:21,589 --> 02:12:18,560  
with mike brown

3149

02:12:24,709 --> 02:12:21,599  
from caltech yeah

3150

02:12:25,750 --> 02:12:24,719  
no not regularly i you know dropped him

3151

02:12:30,629 --> 02:12:25,760

an email

3152

02:12:33,669 --> 02:12:30,639

um and uh read much of his stuff

3153

02:12:37,270 --> 02:12:33,679

what was his book how i killed

3154

02:12:38,870 --> 02:12:37,280

pluto and why it had it coming

3155

02:12:40,390 --> 02:12:38,880

which he wrote because he started

3156

02:12:43,510 --> 02:12:40,400

finding all these uh

3157

02:12:44,470 --> 02:12:43,520

dwarf planets and of course at that time

3158

02:12:46,950 --> 02:12:44,480

he wasn't

3159

02:12:47,990 --> 02:12:46,960

seeing any pattern in the dwarf planets

3160

02:12:51,669 --> 02:12:48,000

just said oh there's a lot

3161

02:12:52,870 --> 02:12:51,679

of you know tnos trans-neptunian objects

3162

02:12:55,270 --> 02:12:52,880

out there

3163

02:12:57,270 --> 02:12:55,280

but when he realized and he was one of

3164

02:12:59,830 --> 02:12:57,280

the first to voice it so all

3165

02:13:00,390 --> 02:12:59,840

uh you know hats off to him that they're

3166

02:13:03,510 --> 02:13:00,400

in this

3167

02:13:05,750 --> 02:13:03,520

pattern he's he actually put himself on

3168

02:13:06,310 --> 02:13:05,760

a limb and says there has to be a very

3169

02:13:09,830 --> 02:13:06,320

loud

3170

02:13:11,910 --> 02:13:09,840

large object out there and uh

3171

02:13:14,229 --> 02:13:11,920

when asked in the press how certain he

3172

02:13:16,550 --> 02:13:14,239

was he said i'm 100

3173

02:13:18,069 --> 02:13:16,560

sure so he's gone way out of the limb

3174

02:13:20,310 --> 02:13:18,079

and sawed it off

3175

02:13:22,069 --> 02:13:20,320

and uh but they're all looking for a

3176

02:13:24,629 --> 02:13:22,079

planet which they have not

3177

02:13:26,310 --> 02:13:24,639

found which is extremely odd you know

3178

02:13:30,709 --> 02:13:26,320

given that when we

3179

02:13:33,830 --> 02:13:30,719

we saw little uh perturbations in um

3180

02:13:35,030 --> 02:13:33,840

uranus they found neptune within 48

3181

02:13:37,589 --> 02:13:35,040

hours when they

3182

02:13:40,550 --> 02:13:37,599

discovered the perturbations in neptune

3183

02:13:43,030 --> 02:13:40,560

they found pluto within like 24 hours

3184

02:13:44,870 --> 02:13:43,040

now we're finding that the whole solar

3185

02:13:47,430 --> 02:13:44,880

system has a signature

3186

02:13:49,750 --> 02:13:47,440

and every top astronomer in the in the

3187

02:13:53,350 --> 02:13:49,760

world has been looking in this direction

3188

02:13:55,430 --> 02:13:53,360

and they haven't found a thing and so

3189

02:13:57,189 --> 02:13:55,440

uh you know i have a theory for that but

3190

02:14:00,069 --> 02:13:57,199

it's uh it's

3191

02:14:01,510 --> 02:14:00,079

i okay hold on hold on i want to hear

3192

02:14:04,709 --> 02:14:01,520

your theory

3193

02:14:08,310 --> 02:14:04,719

um can i make okay let me uh

3194

02:14:13,270 --> 02:14:08,320

remember i'm not a phd i'm not

3195

02:14:16,310 --> 02:14:13,280

but this is my thought

3196

02:14:20,149 --> 02:14:16,320

it's far enough out

3197

02:14:23,510 --> 02:14:20,159

not to reflect any sunlight

3198

02:14:27,990 --> 02:14:23,520

and may not have the

3199

02:14:31,109 --> 02:14:28,000

uh the em signature to be picked up

3200

02:14:34,229 --> 02:14:31,119

by a radio telescope and

3201

02:14:34,709 --> 02:14:34,239

that it is sitting out there its size is

3202

02:14:38,870 --> 02:14:34,719

enough

3203

02:14:42,709 --> 02:14:38,880

to affect things from great distances

3204

02:14:48,790 --> 02:14:42,719

but we can't see it because it's beyond

3205

02:14:51,830 --> 02:14:50,950

that is a possibility and we sort of

3206

02:14:56,790 --> 02:14:51,840

laid out that

3207

02:15:00,470 --> 02:14:56,800

hypothesis in lost our myth and time

3208

02:15:03,830 --> 02:15:00,480

but there is another possibility that

3209

02:15:07,350 --> 02:15:03,840

i i lean more towards okay

3210

02:15:10,069 --> 02:15:07,360

and and that that is that

3211

02:15:10,790 --> 02:15:10,079

when when our modern scientists said

3212

02:15:13,350 --> 02:15:10,800

it's somewhere

3213

02:15:14,229 --> 02:15:13,360

out there in the area between sirius and

3214

02:15:17,270 --> 02:15:14,239

orion

3215

02:15:18,790 --> 02:15:17,280

that they actually named it and it's but

3216

02:15:21,990 --> 02:15:18,800

it's way out there it's

3217

02:15:25,189 --> 02:15:22,000

a it's in all likelihood serious in my

3218

02:15:29,430 --> 02:15:25,199

opinion uh because sirius

3219

02:15:32,950 --> 02:15:29,440

is um you know right in line

3220

02:15:36,629 --> 02:15:32,960

uh with with pluto's inclination and

3221

02:15:39,910 --> 02:15:36,639

the inc inclination of many of the other

3222

02:15:42,629 --> 02:15:39,920

dwarf planets it's just right in the loc

3223

02:15:43,990 --> 02:15:42,639

the right location and i i hypothesized

3224

02:15:45,990 --> 02:15:44,000

this before

3225

02:15:47,910 --> 02:15:46,000

mike brown and any of the gang were even

3226

02:15:51,430 --> 02:15:47,920

looking for an object out there

3227

02:15:54,470 --> 02:15:51,440

uh causing the signature and

3228

02:15:56,950 --> 02:15:54,480

also if you go back to uh

3229

02:15:58,229 --> 02:15:56,960

you know look at some of the redness

3230

02:16:00,470 --> 02:15:58,239

resonances

3231

02:16:02,390 --> 02:16:00,480

you know planets have other signatures

3232

02:16:04,229 --> 02:16:02,400

too uh when they're in resonance with

3233

02:16:06,629 --> 02:16:04,239

each other

3234

02:16:07,430 --> 02:16:06,639

and our solar system does this so that

3235

02:16:09,189 --> 02:16:07,440

you know

3236

02:16:10,709 --> 02:16:09,199

things don't keep running into each

3237

02:16:14,229 --> 02:16:10,719

other they fall into

3238

02:16:17,910 --> 02:16:14,239

patterns uh and so if you look at like

3239

02:16:21,669 --> 02:16:17,920

neptune and pluto for example

3240

02:16:24,870 --> 02:16:21,679

their their orbit planes cross

3241

02:16:27,109 --> 02:16:24,880

but their orbit periods are such that

3242

02:16:29,270 --> 02:16:27,119

you know a pluto goes around twice for

3243

02:16:32,629 --> 02:16:29,280

every once that neptune goes around

3244

02:16:34,629 --> 02:16:32,639

and therefore they will never hit they

3245

02:16:36,230 --> 02:16:34,639

and so they're they're in this beautiful

3246

02:16:39,830 --> 02:16:36,240

harmonic dance

3247

02:16:41,669 --> 02:16:39,840

well guess what uh sirius

3248

02:16:42,950 --> 02:16:41,679

the serious system is actually made of

3249

02:16:46,549 --> 02:16:42,960

two stars sirius

3250

02:16:50,070 --> 02:16:46,559

a which is two solar masses and sirius b

3251

02:16:53,669 --> 02:16:50,080

a very super dense white dwarf

3252

02:16:55,750 --> 02:16:53,679

of one solar mass and they have a

3253

02:16:57,110 --> 02:16:55,760

a 50-year period that they go around

3254

02:17:00,629 --> 02:16:57,120

each other

3255

02:17:03,910 --> 02:17:00,639

that period is an exact resonance

3256

02:17:06,950 --> 02:17:03,920

with uh pluto's orbit period it's

3257

02:17:09,270 --> 02:17:06,960

it's actually a five to one ratio

3258

02:17:11,349 --> 02:17:09,280

and some friends of mine have have been

3259

02:17:13,270 --> 02:17:11,359

you know monitoring sirius for

3260

02:17:14,389 --> 02:17:13,280

quite some time and they found that on

3261

02:17:17,750 --> 02:17:14,399

the last

3262

02:17:19,509 --> 02:17:17,760

transit of serious b between serious a

3263

02:17:21,429 --> 02:17:19,519

and our own solar system which happens

3264

02:17:25,910 --> 02:17:21,439

every 50 years

3265

02:17:28,709 --> 02:17:25,920

our whole earth time

3266

02:17:29,910 --> 02:17:28,719

dragged by about a second in a few days

3267

02:17:32,389 --> 02:17:29,920

leading up to it

3268

02:17:33,589 --> 02:17:32,399

and then right after it passed it gained

3269

02:17:37,750 --> 02:17:33,599

about a second

3270

02:17:41,589 --> 02:17:37,760

from four and a half light years away

3271

02:17:44,230 --> 02:17:41,599

yeah actually i think it's six points

3272

02:17:45,830 --> 02:17:44,240

or eight point six light years yeah but

3273

02:17:47,830 --> 02:17:45,840

you're right

3274

02:17:49,669 --> 02:17:47,840

yeah the center of gravity would be

3275

02:17:52,389 --> 02:17:49,679

closer to the midway point

3276

02:17:52,950 --> 02:17:52,399

actually a little closer to sirius call

3277

02:17:55,589 --> 02:17:52,960

it

3278

02:17:56,709 --> 02:17:55,599

five and a half or six light years out

3279

02:17:58,230 --> 02:17:56,719

because

3280

02:17:59,750 --> 02:17:58,240

you know we're talking about the center

3281

02:18:01,990 --> 02:17:59,760

of mass so we don't have to go all the

3282

02:18:05,990 --> 02:18:02,000

way around serious we just have to go

3283

02:18:08,870 --> 02:18:06,000

around the uh the berry center

3284

02:18:10,230 --> 02:18:08,880

but you know so that's it's just a

3285

02:18:13,509 --> 02:18:10,240

theory

3286

02:18:15,990 --> 02:18:13,519

um i am open to other

3287

02:18:18,870 --> 02:18:16,000

uh ideas i'm corresponding with a lot of

3288

02:18:22,709 --> 02:18:18,880

astronomers on other ideas

3289

02:18:24,309 --> 02:18:22,719

um and and you know

3290

02:18:26,469 --> 02:18:24,319

well might we'll probably know in the

3291

02:18:27,509 --> 02:18:26,479

next five or ten years yeah well mike

3292

02:18:29,910 --> 02:18:27,519

brown

3293

02:18:31,429 --> 02:18:29,920

uh and you correctly stated that he put

3294

02:18:34,790 --> 02:18:31,439

everything on the table

3295

02:18:36,950 --> 02:18:34,800

he he definitely did but

3296

02:18:38,549 --> 02:18:36,960

one of the things that he said very

3297

02:18:42,070 --> 02:18:38,559

definitively

3298

02:18:46,230 --> 02:18:42,080

he said the math is not

3299

02:18:49,349 --> 02:18:46,240

wrong right that that would you know

3300

02:18:52,950 --> 02:18:49,359

here it is there has to be

3301

02:18:53,750 --> 02:18:52,960

something there and when we look at the

3302

02:18:56,950 --> 02:18:53,760

math and

3303

02:19:00,389 --> 02:18:56,960

we're looking exactly where it should be

3304

02:19:03,030 --> 02:19:00,399

we're not finding anything but the math

3305

02:19:04,790 --> 02:19:03,040

is not wrong that's a pretty

3306

02:19:06,790 --> 02:19:04,800

extraordinary thing for somebody from

3307

02:19:13,030 --> 02:19:06,800

caltech to you know to say

3308

02:19:16,790 --> 02:19:15,589

go ahead we use newtonian math we use

3309

02:19:20,150 --> 02:19:16,800

newtonian math for

3310

02:19:21,910 --> 02:19:20,160

uh for gravitational calculations

3311

02:19:23,830 --> 02:19:21,920

you know it was brilliant it works

3312

02:19:25,509 --> 02:19:23,840

really well unless you just get too far

3313

02:19:26,150 --> 02:19:25,519

out and you're talking on a galactic

3314

02:19:28,309 --> 02:19:26,160

level

3315

02:19:30,389 --> 02:19:28,319

but locally it seems to make a whole lot

3316

02:19:34,629 --> 02:19:30,399

of sense

3317

02:19:38,549 --> 02:19:34,639

but einstein had theorized

3318

02:19:41,910 --> 02:19:38,559

uh you know a little over 100 years ago

3319

02:19:44,950 --> 02:19:41,920

that there was uh

3320

02:19:49,190 --> 02:19:44,960

something called gravitational waves

3321

02:19:51,750 --> 02:19:49,200

that so it's not just

3322

02:19:52,309 --> 02:19:51,760

the the only thing that affects other

3323

02:19:55,349 --> 02:19:52,319

objects

3324

02:19:57,110 --> 02:19:55,359

isn't just a big mass coming close and

3325

02:20:00,630 --> 02:19:57,120

moving farther away

3326

02:20:02,950 --> 02:20:00,640

but actual waves from from two objects

3327

02:20:04,070 --> 02:20:02,960

that might be you know orbiting each

3328

02:20:07,750 --> 02:20:04,080

other

3329

02:20:09,750 --> 02:20:07,760

and so this was studied and

3330

02:20:11,110 --> 02:20:09,760

it took about a hundred years but it was

3331

02:20:14,230 --> 02:20:11,120

finally proved

3332

02:20:17,590 --> 02:20:14,240

here i think just two three years ago

3333

02:20:19,670 --> 02:20:17,600

in the ligo experiments that's right

3334

02:20:21,510 --> 02:20:19,680

yeah and so they've they proved that

3335

02:20:23,590 --> 02:20:21,520

gravity waves exist

3336

02:20:24,790 --> 02:20:23,600

and if you look at the type of waves

3337

02:20:28,630 --> 02:20:24,800

they're finding

3338

02:20:31,429 --> 02:20:28,640

massive objects

3339

02:20:32,870 --> 02:20:31,439

circling one and each other and you know

3340

02:20:34,710 --> 02:20:32,880

they think they've crashed into each

3341

02:20:36,389 --> 02:20:34,720

other and that shows up on this little

3342

02:20:39,270 --> 02:20:36,399

tiny ligo experiment

3343

02:20:40,790 --> 02:20:39,280

i see a little tiny because it's uh you

3344

02:20:42,469 --> 02:20:40,800

know it's two places in the united

3345

02:20:45,110 --> 02:20:42,479

states but i think each

3346

02:20:46,150 --> 02:20:45,120

each laser uh which are at 90 degree

3347

02:20:48,550 --> 02:20:46,160

intersections is

3348

02:20:50,870 --> 02:20:48,560

is maybe a mile long something like that

3349

02:20:52,950 --> 02:20:50,880

two kilometers what if you had a light

3350

02:20:55,030 --> 02:20:52,960

yeah okay sounds about right yeah what

3351

02:20:58,550 --> 02:20:55,040

if you had a ligo experiment

3352

02:21:00,550 --> 02:20:58,560

that was the size of our solar system

3353

02:21:01,830 --> 02:21:00,560

and what you were looking to see if it

3354

02:21:05,670 --> 02:21:01,840

moves

3355

02:21:09,190 --> 02:21:05,680

is are our outer most distant planets

3356

02:21:11,270 --> 02:21:09,200

with the least amount of mass

3357

02:21:14,070 --> 02:21:11,280

and that's what i think we have and i

3358

02:21:17,190 --> 02:21:14,080

think what's happening is serious b

3359

02:21:20,070 --> 02:21:17,200

goes around serious a it's uh

3360

02:21:21,030 --> 02:21:20,080

it's the source of massive gravitational

3361

02:21:25,030 --> 02:21:21,040

waves

3362

02:21:28,550 --> 02:21:25,040

and it's sort of rippling our our

3363

02:21:30,710 --> 02:21:28,560

our solar system into a certain pattern

3364

02:21:31,750 --> 02:21:30,720

which is making you know all the

3365

02:21:34,230 --> 02:21:31,760

astronomers

3366

02:21:36,150 --> 02:21:34,240

look out in that direction now to find

3367

02:21:37,910 --> 02:21:36,160

some massive object

3368

02:21:39,429 --> 02:21:37,920

but right now they're only conceiving

3369

02:21:41,190 --> 02:21:39,439

that it could be a planet

3370

02:21:42,870 --> 02:21:41,200

they keep up in the amount at first they

3371

02:21:44,389 --> 02:21:42,880

thought it was one solar masses maybe

3372

02:21:46,950 --> 02:21:44,399

one to two solar masses

3373

02:21:49,110 --> 02:21:46,960

maybe up to five solar masses i think

3374

02:21:49,830 --> 02:21:49,120

the consensus now is about 10 solar

3375

02:21:52,550 --> 02:21:49,840

masses

3376

02:21:53,030 --> 02:21:52,560

more and more people are saying 20. i'm

3377

02:21:56,309 --> 02:21:53,040

sorry

3378

02:21:57,429 --> 02:21:56,319

up earth masses um some are saying up to

3379

02:22:00,950 --> 02:21:57,439

a hundred

3380

02:22:04,150 --> 02:22:00,960

but uh you know what if it's if it's uh

3381

02:22:06,550 --> 02:22:04,160

you know multiple solar masses it could

3382

02:22:08,790 --> 02:22:06,560

which would be millions of earth masses

3383

02:22:12,070 --> 02:22:08,800

it could be much farther away

3384

02:22:13,270 --> 02:22:12,080

and and my guess is that's that's where

3385

02:22:16,550 --> 02:22:13,280

we're leading

3386

02:22:20,309 --> 02:22:16,560

um how far is this idea uh

3387

02:22:21,830 --> 02:22:20,319

going you know is it something that is

3388

02:22:24,469 --> 02:22:21,840

being discussed out there in the

3389

02:22:27,590 --> 02:22:26,630

well right now it hasn't gone too much

3390

02:22:31,030 --> 02:22:27,600

farther than the

3391

02:22:35,349 --> 02:22:31,040

jimmy church show

3392

02:22:37,670 --> 02:22:35,359

maybe coast to coast but

3393

02:22:40,150 --> 02:22:37,680

yeah no quietly you know you get a lot

3394

02:22:42,630 --> 02:22:40,160

of uh support from astronomers

3395

02:22:43,750 --> 02:22:42,640

uh who say something like well you know

3396

02:22:46,469 --> 02:22:43,760

i i was

3397

02:22:47,830 --> 02:22:46,479

curious when i read your website and

3398

02:22:49,670 --> 02:22:47,840

have you thought of this and this and

3399

02:22:53,110 --> 02:22:49,680

this and this so

3400

02:22:54,710 --> 02:22:53,120

there's there's some fun engagement

3401

02:22:57,510 --> 02:22:54,720

that's going on

3402

02:23:00,230 --> 02:22:57,520

um and and that's really what it takes

3403

02:23:02,950 --> 02:23:00,240

to sort of flush this whole thing out

3404

02:23:03,990 --> 02:23:02,960

but it's you know it's pretty heretical

3405

02:23:06,870 --> 02:23:04,000

right now to say

3406

02:23:07,750 --> 02:23:06,880

that that our solar system is part of

3407

02:23:10,150 --> 02:23:07,760

another

3408

02:23:11,270 --> 02:23:10,160

stellar star system to me it's obvious

3409

02:23:14,550 --> 02:23:11,280

because

3410

02:23:15,910 --> 02:23:14,560

the the biggest most obvious sign of

3411

02:23:19,510 --> 02:23:15,920

that is

3412

02:23:22,550 --> 02:23:19,520

um you know our our earth changes

3413

02:23:25,349 --> 02:23:22,560

uh orientation

3414

02:23:27,990 --> 02:23:25,359

roughly every 24 000 years just like it

3415

02:23:30,150 --> 02:23:28,000

does every 24 hours it spins on x-axis

3416

02:23:32,790 --> 02:23:30,160

every 365 days

3417

02:23:33,190 --> 02:23:32,800

it goes around the sun well every 24 000

3418

02:23:35,510 --> 02:23:33,200

years

3419

02:23:36,230 --> 02:23:35,520

all the stars completely go around and

3420

02:23:39,670 --> 02:23:36,240

come back

3421

02:23:42,630 --> 02:23:39,680

to us but that's been explained away as

3422

02:23:43,510 --> 02:23:42,640

precession due to wobbling earth and i

3423

02:23:46,950 --> 02:23:43,520

find that

3424

02:23:48,710 --> 02:23:46,960

theory to be terribly broken i do not

3425

02:23:51,270 --> 02:23:48,720

see that it's due to precession i see

3426

02:23:53,990 --> 02:23:51,280

it's due to the entire solar system

3427

02:23:54,550 --> 02:23:54,000

orbiting something else which is why we

3428

02:23:57,670 --> 02:23:54,560

have a

3429

02:23:59,190 --> 02:23:57,680

beautiful view 360 degree view of all

3430

02:24:02,550 --> 02:23:59,200

the heavens every 24

3431

02:24:03,910 --> 02:24:02,560

000 years now uh and before we get to

3432

02:24:06,150 --> 02:24:03,920

the bottom of the hour

3433

02:24:07,429 --> 02:24:06,160

oh by the way we talked about this

3434

02:24:11,110 --> 02:24:07,439

earlier

3435

02:24:13,030 --> 02:24:11,120

we are running out of time and i want to

3436

02:24:14,309 --> 02:24:13,040

talk about the mayan calendar so i want

3437

02:24:15,750 --> 02:24:14,319

to save that

3438

02:24:18,309 --> 02:24:15,760

for when we come back and we'll do a

3439

02:24:18,870 --> 02:24:18,319

little overtime but before we get to the

3440

02:24:22,230 --> 02:24:18,880

break

3441

02:24:22,870 --> 02:24:22,240

here in a few minutes uh i want to

3442

02:24:28,790 --> 02:24:22,880

discuss

3443

02:24:33,510 --> 02:24:28,800

briefly uh our star system here and

3444

02:24:36,630 --> 02:24:33,520

where its binary brother or sister

3445

02:24:42,070 --> 02:24:36,640

should or would be uh where are we

3446

02:24:46,630 --> 02:24:42,080

with that research

3447

02:24:54,830 --> 02:24:49,990

yeah our our sun

3448

02:24:58,230 --> 02:24:54,840

i believe it's its companion

3449

02:25:00,790 --> 02:24:58,240

is is likely serious

3450

02:25:02,070 --> 02:25:00,800

ooh yeah that's that's exactly what i

3451

02:25:05,110 --> 02:25:02,080

was referring to

3452

02:25:07,030 --> 02:25:05,120

and that's why it is it's having all

3453

02:25:09,349 --> 02:25:07,040

these effects and that's why

3454

02:25:10,230 --> 02:25:09,359

our periodicity it's locked with some of

3455

02:25:14,070 --> 02:25:10,240

the uh

3456

02:25:16,710 --> 02:25:14,080

the minor planets um

3457

02:25:17,110 --> 02:25:16,720

you know okay okay there's all right

3458

02:25:19,270 --> 02:25:17,120

yeah

3459

02:25:20,230 --> 02:25:19,280

i i wrote a chapter 10 to lost star and

3460

02:25:24,550 --> 02:25:20,240

you'll find it there

3461

02:25:25,510 --> 02:25:24,560

okay i i i'm almost i almost i almost

3462

02:25:28,790 --> 02:25:25,520

grasped it

3463

02:25:31,910 --> 02:25:28,800

for a second okay so let's back up

3464

02:25:33,030 --> 02:25:31,920

i i was feeling smarter for for for a

3465

02:25:35,750 --> 02:25:33,040

minute there

3466

02:25:36,710 --> 02:25:35,760

i can understand serious a and b 50

3467

02:25:39,990 --> 02:25:36,720

years

3468

02:25:43,030 --> 02:25:40,000

right i see that and it's gravitational

3469

02:25:46,469 --> 02:25:43,040

pull back on our

3470

02:25:50,070 --> 02:25:46,479

star system here and being able to

3471

02:25:53,429 --> 02:25:50,080

measure uh uh

3472

02:25:56,230 --> 02:25:53,439

hiccups right with uh in court

3473

02:25:56,950 --> 02:25:56,240

with correlating with that at a 50-year

3474

02:26:01,750 --> 02:25:56,960

cycle

3475

02:26:06,150 --> 02:26:01,760

but it's still a great distance from us

3476

02:26:09,030 --> 02:26:06,160

if if our binary companion

3477

02:26:11,590 --> 02:26:09,040

would be serious a i think that's what

3478

02:26:14,950 --> 02:26:11,600

you said sirius a

3479

02:26:18,230 --> 02:26:14,960

are they orbiting

3480

02:26:21,190 --> 02:26:18,240

and what what kind of

3481

02:26:22,070 --> 02:26:21,200

kind of time are we talking about there

3482

02:26:25,110 --> 02:26:22,080

we're talking about

3483

02:26:27,030 --> 02:26:25,120

billions of years to go through the

3484

02:26:30,230 --> 02:26:27,040

cycle

3485

02:26:32,950 --> 02:26:30,240

no no it's it's in my opinion it's

3486

02:26:35,270 --> 02:26:32,960

uh it's the procession cycle it's

3487

02:26:39,190 --> 02:26:35,280

roughly 24 000 years

3488

02:26:42,309 --> 02:26:39,200

um so as think of it as uh

3489

02:26:45,670 --> 02:26:42,319

as a clock-like system and as b

3490

02:26:46,710 --> 02:26:45,680

goes around a which is sort of in line

3491

02:26:49,270 --> 02:26:46,720

with our

3492

02:26:50,870 --> 02:26:49,280

solar system every time it sort of

3493

02:26:53,590 --> 02:26:50,880

swings by it

3494

02:26:55,670 --> 02:26:53,600

our solar system ratchets a little bit

3495

02:26:58,870 --> 02:26:55,680

right and spins just a little bit

3496

02:27:01,670 --> 02:26:58,880

right and gets a little bit more energy

3497

02:27:03,030 --> 02:27:01,680

that's what gravity waves do it just

3498

02:27:05,750 --> 02:27:03,040

gives you energy

3499

02:27:07,510 --> 02:27:05,760

and so you're right it seems too far

3500

02:27:10,389 --> 02:27:07,520

away to have any of

3501

02:27:11,990 --> 02:27:10,399

any effect in newtonian physics but if

3502

02:27:14,389 --> 02:27:12,000

you think of uh

3503

02:27:15,270 --> 02:27:14,399

have you ever carried like a huge punch

3504

02:27:17,910 --> 02:27:15,280

bowl

3505

02:27:20,550 --> 02:27:17,920

and you're carrying it out to a table

3506

02:27:24,630 --> 02:27:23,110

you know it's you have to be very

3507

02:27:26,469 --> 02:27:24,640

careful with it because if

3508

02:27:28,150 --> 02:27:26,479

if it goes one way it wants to just keep

3509

02:27:32,230 --> 02:27:28,160

going that way

3510

02:27:34,630 --> 02:27:32,240

but if if the punch in that punch ball

3511

02:27:36,469 --> 02:27:34,640

and let's say it's round or oval shape

3512

02:27:39,750 --> 02:27:36,479

if you can

3513

02:27:42,150 --> 02:27:39,760

just get it spinning which might take a

3514

02:27:45,670 --> 02:27:42,160

lot of effort at first

3515

02:27:48,550 --> 02:27:45,680

and then to keep it spinning

3516

02:27:48,870 --> 02:27:48,560

all you need to do is just touch it just

3517

02:27:52,150 --> 02:27:48,880

with

3518

02:27:54,630 --> 02:27:52,160

one finger at the right intervals

3519

02:27:55,510 --> 02:27:54,640

and that entire mass will just keep

3520

02:27:57,750 --> 02:27:55,520

spinning

3521

02:27:58,870 --> 02:27:57,760

and it's not that your one little finger

3522

02:28:01,670 --> 02:27:58,880

can move

3523

02:28:03,590 --> 02:28:01,680

the weight of you know five gallons of

3524

02:28:06,710 --> 02:28:03,600

of water very easily

3525

02:28:09,830 --> 02:28:06,720

it's that it's doing it in a

3526

02:28:12,710 --> 02:28:09,840

in a pendulum type of motion

3527

02:28:14,309 --> 02:28:12,720

and so you have you have series b going

3528

02:28:17,349 --> 02:28:14,319

around serious a

3529

02:28:19,750 --> 02:28:17,359

it's causing this pendulum motion which

3530

02:28:21,750 --> 02:28:19,760

is rearranging everything

3531

02:28:23,670 --> 02:28:21,760

on a very consistent basis throughout

3532

02:28:26,550 --> 02:28:23,680

our whole solar system

3533

02:28:28,070 --> 02:28:26,560

and so all these dwarf planets have just

3534

02:28:30,630 --> 02:28:28,080

lined up

3535

02:28:31,990 --> 02:28:30,640

very nicely uh you know in that

3536

02:28:35,670 --> 02:28:32,000

direction

3537

02:28:39,030 --> 02:28:35,680

and it's just just a beautiful signature

3538

02:28:42,309 --> 02:28:39,040

of of that system in my opinion so

3539

02:28:44,630 --> 02:28:42,319

kind of like spinning a bike tire right

3540

02:28:46,150 --> 02:28:44,640

this is it right and then you know once

3541

02:28:48,309 --> 02:28:46,160

you've got it spinning

3542

02:28:52,070 --> 02:28:48,319

you only got to just flick it and you

3543

02:28:57,030 --> 02:28:55,349

yeah very much so very interesting

3544

02:28:59,990 --> 02:28:57,040

all right let's take our break uh when

3545

02:29:02,870 --> 02:29:00,000

we come back uh i want to talk about

3546

02:29:03,910 --> 02:29:02,880

this uh this dust up with the mayan

3547

02:29:07,429 --> 02:29:03,920

calendar

3548

02:29:08,710 --> 02:29:07,439

and the reason why walter i i find it so

3549

02:29:11,349 --> 02:29:08,720

interesting

3550

02:29:13,030 --> 02:29:11,359

is all of the publicity that went down

3551

02:29:16,389 --> 02:29:13,040

in december 2012

3552

02:29:16,710 --> 02:29:16,399

about the end of an age right and this

3553

02:29:23,990 --> 02:29:16,720

is

3554

02:29:26,550 --> 02:29:24,000

now it's all been shifted right

3555

02:29:28,550 --> 02:29:26,560

the dating was wrong uh i want to

3556

02:29:29,750 --> 02:29:28,560

discuss that i find it totally

3557

02:29:32,230 --> 02:29:29,760

interesting

3558

02:29:33,190 --> 02:29:32,240

um i know i don't know about you walter

3559

02:29:37,429 --> 02:29:33,200

i didn't totally

3560

02:29:39,590 --> 02:29:37,439

buy into the december 2012 uh

3561

02:29:41,670 --> 02:29:39,600

theories that were out there that was

3562

02:29:44,309 --> 02:29:41,680

just me it was too good to be true

3563

02:29:45,030 --> 02:29:44,319

and that that was just me well it came

3564

02:29:48,950 --> 02:29:45,040

and went

3565

02:29:50,469 --> 02:29:48,960

and everything was okay in 2013.

3566

02:29:52,309 --> 02:29:50,479

let's uh let's talk about all of this

3567

02:29:53,910 --> 02:29:52,319

when we come back our guest tonight

3568

02:29:56,460 --> 02:29:53,920

walter cruttenden we're heading into

3569

02:30:02,830 --> 02:29:56,470

overtime this is fade to black stay with

3570

02:30:05,220 --> 02:30:02,840

[Music]

3571

02:30:11,190 --> 02:30:05,230

us

3572

02:30:13,590 --> 02:30:11,200

hey what up y'all should go biblical fox

3573

02:30:18,790 --> 02:30:13,600

here and you are listening to my boy

3574

02:30:22,070 --> 02:30:18,800

jimmy church on jimmychurchradio.com

3575

02:30:25,750 --> 02:30:22,080

despite popular opinion reading a book

3576

02:30:29,349 --> 02:30:27,890

but listening to jimmy church will

3577

02:30:31,110 --> 02:30:29,359

[Applause]

3578

02:30:33,190 --> 02:30:31,120

this is jimmy church of fade to black

3579

02:30:36,389 --> 02:30:33,200

and i take life change tea

3580

02:30:37,030 --> 02:30:36,399

supplements every single day it's what i

3581

02:30:39,550 --> 02:30:37,040

do

3582

02:30:43,190 --> 02:30:39,560

click on their banner at

3583

02:30:47,990 --> 02:30:45,349

when you take the beans from central

3584

02:30:49,270 --> 02:30:48,000

america with dashes of indonesian and

3585

02:30:51,510 --> 02:30:49,280

african mixed in

3586

02:30:52,870 --> 02:30:51,520

and then roasted to the dark side of

3587

02:30:56,070 --> 02:30:52,880

fade to black

3588

02:30:59,030 --> 02:30:56,080

you create the ultimate brew of fringe

3589

02:31:00,710 --> 02:30:59,040

introducing the fade to black blend from

3590

02:31:03,750 --> 02:31:00,720

river moon coffee

3591

02:31:05,830 --> 02:31:03,760

yes river moon's darkest customized

3592

02:31:09,030 --> 02:31:05,840

roast was created for the love

3593

02:31:11,830 --> 02:31:09,040

of fade to black the alchemy of

3594

02:31:14,469 --> 02:31:11,840

masterful roasting and smoking the beans

3595

02:31:18,150 --> 02:31:14,479

is in every sip of this full-bodied

3596

02:31:20,710 --> 02:31:18,160

dark java i need my coffee doc

3597

02:31:21,670 --> 02:31:20,720

deep with distinct bittersweet chocolate

3598

02:31:24,230 --> 02:31:21,680

highlights

3599

02:31:26,790 --> 02:31:24,240

just like the bunker leaning further

3600

02:31:28,230 --> 02:31:26,800

into the darkness of the roast is fade

3601

02:31:30,630 --> 02:31:28,240

to black blend from

3602

02:31:32,950 --> 02:31:30,640

river moon coffee just click on the

3603

02:31:33,910 --> 02:31:32,960

banner at jimmychurchradio.com and use

3604

02:31:38,389 --> 02:31:33,920

the promo code

3605

02:31:43,030 --> 02:31:38,399

f2b blend for 15 off of your order today

3606

02:31:44,790 --> 02:31:43,040

go back lee tappy hello my name is billy

3607

02:31:46,630 --> 02:31:44,800

carson and i'm a best-selling author and

3608

02:31:47,270 --> 02:31:46,640

the founder of forbidden knowledge dot

3609

02:31:48,870 --> 02:31:47,280

tv

3610

02:31:51,190 --> 02:31:48,880

together with my team we have built a

3611

02:31:52,790 --> 02:31:51,200

all new contest streaming tv platform

3612

02:31:54,710 --> 02:31:52,800

designed with every family member in

3613

02:31:55,990 --> 02:31:54,720

mind if you have ever wanted to travel

3614

02:31:57,429 --> 02:31:56,000

the world and attend lectures and

3615

02:31:58,550 --> 02:31:57,439

workshops from your favorite speakers

3616

02:32:01,270 --> 02:31:58,560

but weren't able to

3617

02:32:01,910 --> 02:32:01,280

look no further forbidden knowledge dot

3618

02:32:03,590 --> 02:32:01,920

tv

3619

02:32:05,429 --> 02:32:03,600

there are dozens of workshops and

3620

02:32:07,590 --> 02:32:05,439

lectures from speakers you know and love

3621

02:32:09,429 --> 02:32:07,600

we have also included amazing categories

3622

02:32:10,070 --> 02:32:09,439

to assure that your consciousness is

3623

02:32:12,389 --> 02:32:10,080

entertained

3624

02:32:13,990 --> 02:32:12,399

and elevating on a daily basis amazing

3625

02:32:16,389 --> 02:32:14,000

interviews ancient history

3626  
02:32:18,389 --> 02:32:16,399  
ascension knowledge wisdom teachings

3627  
02:32:20,630 --> 02:32:18,399  
documentaries conspiracies

3628  
02:32:22,550 --> 02:32:20,640  
mysteries health and fitness conscious

3629  
02:32:24,710 --> 02:32:22,560  
cooking meditations finance

3630  
02:32:27,110 --> 02:32:24,720  
yoga and so much more to start your free

3631  
02:32:29,750 --> 02:32:27,120  
trial on any mobile device or computer

3632  
02:32:30,309 --> 02:32:29,760  
surf there forbidden knowledge dot tv

3633  
02:32:32,309 --> 02:32:30,319  
that's

3634  
02:32:34,550 --> 02:32:32,319  
forbidden knowledge with the number four

3635  
02:32:39,030 --> 02:32:34,560  
forbidden knowledge dot tv

3636  
02:32:41,190 --> 02:32:39,040  
today

3637  
02:32:42,230 --> 02:32:41,200  
are you intrigued by paranormal talk

3638  
02:32:44,710 --> 02:32:42,240

radio you

3639

02:32:45,590 --> 02:32:44,720

love the new paranormal radio app from

3640

02:32:48,230 --> 02:32:45,600

talk stream

3641

02:32:50,309 --> 02:32:48,240

live you'll find a great selection of

3642

02:32:53,429 --> 02:32:50,319

talk shows covering ufos

3643

02:32:55,750 --> 02:32:53,439

ghosts strange phenomena and much more

3644

02:32:57,590 --> 02:32:55,760

download the paranormal radio app now

3645

02:32:59,510 --> 02:32:57,600

and start listening to the very best in

3646

02:33:01,030 --> 02:32:59,520

paranormal talk entertainment

3647

02:33:03,910 --> 02:33:01,040

including the network you're listening

3648

02:33:06,710 --> 02:33:03,920

to right now the paranormal radio app

3649

02:33:15,510 --> 02:33:06,720

free in google play and the ios app

3650

02:33:27,910 --> 02:33:18,630

it's not a lifestyle we chose we were

3651  
02:33:27,920 --> 02:33:46,469  
this is kjcr jimmychurchradio.com

3652  
02:33:51,270 --> 02:33:49,349  
welcome back baby black i am your host

3653  
02:33:52,870 --> 02:33:51,280  
jimmy church

3654  
02:33:54,550 --> 02:33:52,880  
i guess tonight walter cruttenden we're

3655  
02:33:57,030 --> 02:33:54,560  
heading straight into

3656  
02:33:58,950 --> 02:33:57,040  
overtime tonight what a great

3657  
02:34:00,870 --> 02:33:58,960  
conversation and and walter

3658  
02:34:01,990 --> 02:34:00,880  
uh seriously i want to thank you not

3659  
02:34:05,349 --> 02:34:02,000  
only for all of your hard

3660  
02:34:07,429 --> 02:34:05,359  
work but uh hanging out uh with all of

3661  
02:34:10,309 --> 02:34:07,439  
us tonight and especially when

3662  
02:34:11,750 --> 02:34:10,319  
uh this world is doing its dramatic

3663  
02:34:14,469 --> 02:34:11,760

things right now but

3664

02:34:14,950 --> 02:34:14,479

thank you so much because it allows us

3665

02:34:20,630 --> 02:34:14,960

uh

3666

02:34:22,710 --> 02:34:20,640

and and the audience can come and hang

3667

02:34:24,150 --> 02:34:22,720

out with us and not hear us talk about

3668

02:34:26,309 --> 02:34:24,160

the dreaded uh

3669

02:34:27,670 --> 02:34:26,319

uh things that are going on but you know

3670

02:34:30,710 --> 02:34:27,680

what's interesting

3671

02:34:33,990 --> 02:34:30,720

uh as we jump into this uh

3672

02:34:36,309 --> 02:34:34,000

what's that is newton and we've talked

3673

02:34:41,110 --> 02:34:36,319

about newton so much tonight

3674

02:34:46,950 --> 02:34:41,120

newton came up with his gravity math

3675

02:34:53,030 --> 02:34:50,469

yes oh yeah man

3676

02:34:55,110 --> 02:34:53,040

they were in the middle of it and uh so

3677

02:34:56,950 --> 02:34:55,120

he was locked down with the family for

3678

02:34:59,910 --> 02:34:56,960

for a few months and had to sit and

3679

02:35:03,190 --> 02:34:59,920

think so we have that going for us

3680

02:35:05,750 --> 02:35:03,200

just maybe this show tonight

3681

02:35:06,389 --> 02:35:05,760

will uh will change will change the

3682

02:35:09,590 --> 02:35:06,399

future

3683

02:35:13,190 --> 02:35:09,600

you never know you never know so um

3684

02:35:16,630 --> 02:35:13,200

what did you make of the mayan calendar

3685

02:35:21,590 --> 02:35:16,640

2020 dustup that started about a week

3686

02:35:27,750 --> 02:35:24,870

you know somebody sent me a

3687

02:35:29,270 --> 02:35:27,760

little cartoon on it and it's it's two

3688

02:35:31,590 --> 02:35:29,280

mayans

3689

02:35:33,190 --> 02:35:31,600

in ancient times you know sitting on

3690

02:35:37,030 --> 02:35:33,200

opposite fires

3691

02:35:40,230 --> 02:35:37,040

opposite sides of the fire and one uh

3692

02:35:41,429 --> 02:35:40,240

one mayan is saying you know if you just

3693

02:35:44,790 --> 02:35:41,439

carry the three i

3694

02:35:46,469 --> 02:35:44,800

i really think it'll get you those extra

3695

02:35:47,349 --> 02:35:46,479

years and the other guy is saying i'm

3696

02:35:49,110 --> 02:35:47,359

not gonna add

3697

02:35:52,309 --> 02:35:49,120

eight years i already carved the thing

3698

02:35:58,630 --> 02:35:55,510

oh that if you carry the three

3699

02:36:02,870 --> 02:35:58,640

oh that's funny that's funny well

3700

02:36:03,750 --> 02:36:02,880

um the the conspiracy theorists out

3701

02:36:06,950 --> 02:36:03,760

there

3702

02:36:09,110 --> 02:36:06,960

say that we've got five days left

3703

02:36:10,389 --> 02:36:09,120

right that it's going to be june 21st

3704

02:36:15,830 --> 02:36:10,399

2020

3705

02:36:23,590 --> 02:36:18,469

well why don't we talk a week from now

3706

02:36:29,190 --> 02:36:27,030

how many uh okay well let's back up for

3707

02:36:31,270 --> 02:36:29,200

a second because the ancients

3708

02:36:33,349 --> 02:36:31,280

uh obviously knew something and i think

3709

02:36:35,349 --> 02:36:33,359

one of the most beautiful things out

3710

02:36:37,670 --> 02:36:35,359

there is the mayan calendar

3711

02:36:38,950 --> 02:36:37,680

and when you break it down and you look

3712

02:36:42,150 --> 02:36:38,960

at the rings and

3713

02:36:42,950 --> 02:36:42,160

and how it works um it's about as

3714

02:36:46,550 --> 02:36:42,960

elegant

3715

02:36:48,389 --> 02:36:46,560

as it can be uh i don't i couldn't come

3716

02:36:50,790 --> 02:36:48,399

up with that today

3717

02:36:52,309 --> 02:36:50,800

it would be an impossibility uh it's

3718

02:36:55,750 --> 02:36:52,319

totally elegant

3719

02:36:59,110 --> 02:36:55,760

um how much can we depend on

3720

02:37:01,190 --> 02:36:59,120

uh the accuracy of the calendar

3721

02:37:05,030 --> 02:37:01,200

versus how they actually live their

3722

02:37:08,230 --> 02:37:05,040

lives by it

3723

02:37:09,349 --> 02:37:08,240

well you know in all seriousness i i do

3724

02:37:12,230 --> 02:37:09,359

think that uh

3725

02:37:14,870 --> 02:37:12,240

you know ancient peoples were just

3726

02:37:17,429 --> 02:37:14,880

wonderful observers of the sky

3727

02:37:17,990 --> 02:37:17,439

and we talked about hamlet's mill and

3728

02:37:20,469 --> 02:37:18,000

all the

3729

02:37:22,070 --> 02:37:20,479

uh ancient cultures where this has been

3730

02:37:25,590 --> 02:37:22,080

sort of verified

3731

02:37:27,910 --> 02:37:25,600

and so no doubt the the

3732

02:37:29,670 --> 02:37:27,920

mayans especially the olmec you know

3733

02:37:32,469 --> 02:37:29,680

before the mayans

3734

02:37:33,670 --> 02:37:32,479

because the the mayan culture sort of

3735

02:37:35,670 --> 02:37:33,680

you know deteriorated

3736

02:37:37,830 --> 02:37:35,680

as it got closer and closer to the dark

3737

02:37:40,070 --> 02:37:37,840

age and then finally disappeared

3738

02:37:41,830 --> 02:37:40,080

but yeah i i would think that there was

3739

02:37:44,790 --> 02:37:41,840

some real knowledge about

3740

02:37:46,469 --> 02:37:44,800

uh cycles of the heavens we know even

3741

02:37:48,870 --> 02:37:46,479

most of their uh

3742

02:37:49,910 --> 02:37:48,880

writings were destroyed we do know that

3743

02:37:53,270 --> 02:37:49,920

they

3744

02:37:55,349 --> 02:37:53,280

uh understood uh venus's

3745

02:37:56,469 --> 02:37:55,359

path through the sky very clearly in

3746

02:37:59,190 --> 02:37:56,479

relation to earth

3747

02:38:00,150 --> 02:37:59,200

which i don't think was clearly

3748

02:38:03,270 --> 02:38:00,160

understood

3749

02:38:05,830 --> 02:38:03,280

here uh you know in the west until like

3750

02:38:07,190 --> 02:38:05,840

the 1700s or something

3751

02:38:10,070 --> 02:38:07,200

so they did have knowledge that we

3752

02:38:10,710 --> 02:38:10,080

didn't have but i could only imagine the

3753

02:38:12,790 --> 02:38:10,720

things that

3754

02:38:14,790 --> 02:38:12,800

that were lost sort of as that whole

3755

02:38:18,630 --> 02:38:14,800

civilization declined

3756

02:38:22,389 --> 02:38:18,640

and i really um i i think the dating

3757

02:38:25,270 --> 02:38:22,399

on on the whole 2012 thing

3758

02:38:27,349 --> 02:38:25,280

um is a little bit fuzzy and some of the

3759

02:38:30,790 --> 02:38:27,359

interpretations came out rather late

3760

02:38:32,790 --> 02:38:30,800

so i'm i just don't

3761

02:38:34,950 --> 02:38:32,800

i can't really comment beyond that other

3762

02:38:37,590 --> 02:38:34,960

than there is some connection

3763

02:38:38,230 --> 02:38:37,600

between the motions to the heavens and

3764

02:38:40,389 --> 02:38:38,240

and

3765

02:38:42,309 --> 02:38:40,399

things that actually happen in the world

3766

02:38:44,070 --> 02:38:42,319

and we we know that on a daily basis we

3767

02:38:47,030 --> 02:38:44,080

know that on a seasonal basis

3768

02:38:49,590 --> 02:38:47,040

so why wouldn't it be uh happening on a

3769

02:38:52,950 --> 02:38:49,600

great year basis as plato talked about

3770

02:38:56,230 --> 02:38:52,960

well the uh the

3771

02:38:58,150 --> 02:38:56,240

the text that caused all of the uproar

3772

02:39:00,389 --> 02:38:58,160

right now and it's it's all over

3773

02:39:03,830 --> 02:39:00,399

mainstream media people

3774

02:39:06,469 --> 02:39:03,840

uh people want to believe and when

3775

02:39:08,469 --> 02:39:06,479

they resonate with something certainly

3776

02:39:12,070 --> 02:39:08,479

today with a thing called uh

3777

02:39:16,230 --> 02:39:12,080

twitter twitter's gonna be big walter um

3778

02:39:17,190 --> 02:39:16,240

the um the the these thoughts can take

3779

02:39:19,910 --> 02:39:17,200

off

3780

02:39:21,750 --> 02:39:19,920

and this is this is the text from it i

3781

02:39:23,270 --> 02:39:21,760

found it very interesting following the

3782

02:39:27,110 --> 02:39:23,280

julian calendar

3783

02:39:29,510 --> 02:39:27,120

we are technically in 2012.

3784

02:39:31,750 --> 02:39:29,520

the number of days lost in a year due to

3785

02:39:32,870 --> 02:39:31,760

the shift in the gregorian calendar is

3786

02:39:36,870 --> 02:39:32,880

11 days

3787

02:39:39,750 --> 02:39:36,880

for 268 years using the gregorian

3788

02:39:45,670 --> 02:39:39,760

calendar 1752-2020

3789

02:39:46,710 --> 02:39:45,680

times 11 days is 2948 days 2948 days 365

3790

02:39:51,190 --> 02:39:46,720

days per year

3791

02:39:55,030 --> 02:39:51,200

equals eight years december 21st 2012

3792

02:39:59,230 --> 02:39:55,040

equals june 21st 2020

3793

02:40:02,389 --> 02:39:59,240

the earth will be destroyed on june 21st

3794

02:40:04,070 --> 02:40:02,399

2020 end quote

3795

02:40:06,469 --> 02:40:04,080

that's enough to scare the crap out of

3796

02:40:09,510 --> 02:40:06,479

anybody and knowing that

3797

02:40:12,469 --> 02:40:09,520

uh it was well when this came out

3798

02:40:13,990 --> 02:40:12,479

uh last week that we were just two and a

3799

02:40:17,110 --> 02:40:14,000

half weeks away

3800

02:40:21,030 --> 02:40:17,120

from this doomsday cycle

3801

02:40:22,309 --> 02:40:21,040

so much was put into december 21st 2012

3802

02:40:25,429 --> 02:40:22,319

originally with all of these

3803

02:40:27,830 --> 02:40:25,439

calculations that

3804

02:40:28,630 --> 02:40:27,840

countless documentaries right countless

3805

02:40:31,269 --> 02:40:28,640

books

3806

02:40:32,950 --> 02:40:31,279

how many radio programs did we hear on

3807

02:40:34,950 --> 02:40:32,960

talk radio

3808

02:40:36,870 --> 02:40:34,960

you know discussing this and getting

3809

02:40:39,910 --> 02:40:36,880

everybody wound up right

3810

02:40:42,630 --> 02:40:39,920

because the the the mayans uh were

3811

02:40:43,990 --> 02:40:42,640

very elegant and accurate with their

3812

02:40:46,830 --> 02:40:44,000

calendar

3813

02:40:48,389 --> 02:40:46,840

if we bring in the gregorian side of

3814

02:40:52,230 --> 02:40:48,399

things

3815

02:40:53,349 --> 02:40:52,240

uh should we think that something

3816

02:40:55,110 --> 02:40:53,359

significant

3817

02:40:56,630 --> 02:40:55,120

could happen not necessarily the

3818

02:40:59,590 --> 02:40:56,640

destruction of the earth but maybe

3819

02:41:01,830 --> 02:40:59,600

something else may happen

3820

02:41:02,950 --> 02:41:01,840

well that's that's my main beef with it

3821

02:41:06,790 --> 02:41:02,960

that

3822

02:41:10,630 --> 02:41:06,800

yes uh you can look at the math

3823

02:41:12,950 --> 02:41:10,640

a different way and and possibly get to

3824

02:41:17,269 --> 02:41:12,960

a different conclusion although

3825

02:41:20,389 --> 02:41:17,279

um you know john major jenkins i

3826

02:41:21,269 --> 02:41:20,399

remember him he would have argued with

3827

02:41:24,950 --> 02:41:21,279

you on

3828

02:41:26,389 --> 02:41:24,960

on it but uh but then it's a whole

3829

02:41:27,990 --> 02:41:26,399

nother thing to say that the

3830

02:41:30,630 --> 02:41:28,000

interpretation of the event

3831

02:41:32,950 --> 02:41:30,640

is the end of the world versus you know

3832

02:41:36,389 --> 02:41:32,960

other interpretations are

3833

02:41:38,710 --> 02:41:36,399

uh end of a cycle change of a cycle

3834

02:41:39,990 --> 02:41:38,720

uh going from one season to another

3835

02:41:42,950 --> 02:41:40,000

season

3836

02:41:44,469 --> 02:41:42,960

uh so i think yeah it's more realistic

3837

02:41:47,670 --> 02:41:44,479

to believe that

3838

02:41:50,950 --> 02:41:47,680

something something could

3839

02:41:52,469 --> 02:41:50,960

they could be marking some change but i

3840

02:41:56,389 --> 02:41:52,479

don't think it's the end of the world

3841

02:41:57,190 --> 02:41:56,399

is there um i had john major jenkins on

3842

02:42:00,550 --> 02:41:57,200

the show

3843

02:42:02,230 --> 02:42:00,560

before he passed away and

3844

02:42:03,830 --> 02:42:02,240

uh it was a very interesting

3845

02:42:06,950 --> 02:42:03,840

conversation in that because i

3846

02:42:09,030 --> 02:42:06,960

followed him uh through

3847

02:42:10,550 --> 02:42:09,040

through the entire mess leading up to it

3848

02:42:13,110 --> 02:42:10,560

too it wasn't just 2012

3849

02:42:14,230 --> 02:42:13,120

it was uh many years before that where

3850

02:42:17,349 --> 02:42:14,240

he was

3851

02:42:18,150 --> 02:42:17,359

uh one of the experts and and things but

3852

02:42:19,910 --> 02:42:18,160

anyway

3853

02:42:21,190 --> 02:42:19,920

he came on the show he goes look man you

3854

02:42:23,910 --> 02:42:21,200

know i

3855

02:42:26,150 --> 02:42:23,920

i said there was nothing special here

3856

02:42:27,990 --> 02:42:26,160

but nobody wanted to listen to me

3857

02:42:29,990 --> 02:42:28,000

everybody else wanted to listen to the

3858

02:42:33,269 --> 02:42:30,000

sensational stuff

3859

02:42:35,269 --> 02:42:33,279

and as was i right or was i

3860

02:42:37,510 --> 02:42:35,279

wrong that part doesn't matter but i

3861

02:42:39,830 --> 02:42:37,520

just got kind of lost in the mix

3862

02:42:40,790 --> 02:42:39,840

and quite honestly i got tired of

3863

02:42:44,150 --> 02:42:40,800

fighting the fight

3864

02:42:45,110 --> 02:42:44,160

because nobody would listen to uh to my

3865

02:42:47,429 --> 02:42:45,120

work

3866

02:42:48,389 --> 02:42:47,439

and i i felt really bad for him because

3867

02:42:49,990 --> 02:42:48,399

he was

3868

02:42:52,550 --> 02:42:50,000

he just wanted to walk away from the

3869

02:42:54,150 --> 02:42:52,560

whole thing after uh 2012 was done he

3870

02:42:55,670 --> 02:42:54,160

he didn't want to do interviews you know

3871

02:42:58,790 --> 02:42:55,680

he just wanted to just

3872

02:43:00,950 --> 02:42:58,800

uh stop talking about it because of the

3873

02:43:02,790 --> 02:43:00,960

all the profiteering that was going on

3874

02:43:04,950 --> 02:43:02,800

with the books and the documentaries

3875

02:43:07,190 --> 02:43:04,960

that was happening with the you know the

3876

02:43:09,030 --> 02:43:07,200

world was going to end on december 21st

3877

02:43:12,070 --> 02:43:09,040

thing

3878

02:43:15,190 --> 02:43:12,080

yeah yeah he was a beautiful gentle soul

3879

02:43:18,790 --> 02:43:15,200

he was actually uh yeah great guy

3880

02:43:20,630 --> 02:43:18,800

uh on our very first seat pack

3881

02:43:22,790 --> 02:43:20,640

uh this conference on procession ancient

3882

02:43:25,910 --> 02:43:22,800

knowledge we've been doing for years

3883

02:43:27,510 --> 02:43:25,920

and yeah i think you know when we had

3884

02:43:29,190 --> 02:43:27,520

when we were just meeting privately we

3885

02:43:30,469 --> 02:43:29,200

weren't even inviting the public to

3886

02:43:34,389 --> 02:43:30,479

attend

3887

02:43:35,269 --> 02:43:34,399

but yeah and i we when john and i talked

3888

02:43:39,030 --> 02:43:35,279

it was always

3889

02:43:41,269 --> 02:43:39,040

that you know that the ancient cultures

3890

02:43:43,269 --> 02:43:41,279

watched the heavens they did

3891

02:43:45,429 --> 02:43:43,279

calculations

3892

02:43:47,269 --> 02:43:45,439

they they could obviously tell when the

3893

02:43:49,990 --> 02:43:47,279

seasons were changing

3894

02:43:50,630 --> 02:43:50,000

they seemed to have sensed some larger

3895

02:43:53,510 --> 02:43:50,640

seasons

3896

02:43:54,870 --> 02:43:53,520

going on out there and so sort of the

3897

02:43:58,070 --> 02:43:54,880

last conversations

3898

02:43:59,830 --> 02:43:58,080

we were having was it has to be related

3899

02:44:03,190 --> 02:43:59,840

to the yugas

3900

02:44:05,510 --> 02:44:03,200

um you know which is the indian term for

3901  
02:44:06,550 --> 02:44:05,520  
the the different ages that the greeks

3902  
02:44:08,950 --> 02:44:06,560  
called

3903  
02:44:09,830 --> 02:44:08,960  
iron bronze silver and golden age and so

3904  
02:44:12,550 --> 02:44:09,840  
yeah i

3905  
02:44:14,309 --> 02:44:12,560  
do think there's something to it i don't

3906  
02:44:16,230 --> 02:44:14,319  
know exactly what it is i don't know

3907  
02:44:19,670 --> 02:44:16,240  
that the math was crystal clear

3908  
02:44:21,950 --> 02:44:19,680  
through the ages but

3909  
02:44:23,830 --> 02:44:21,960  
it'd be neat you know had the

3910  
02:44:27,110 --> 02:44:23,840  
conquistadors

3911  
02:44:30,710 --> 02:44:27,120  
not destroyed the entire

3912  
02:44:31,990 --> 02:44:30,720  
mayan library we would know a lot more

3913  
02:44:35,429 --> 02:44:32,000

today wouldn't we

3914

02:44:37,670 --> 02:44:35,439

what do you think that uh uh

3915

02:44:39,349 --> 02:44:37,680

john would say today would it just be

3916

02:44:41,510 --> 02:44:39,359

the same thing that he was

3917

02:44:42,790 --> 02:44:41,520

uh speaking about leading up to december

3918

02:44:44,550 --> 02:44:42,800

21st 2012

3919

02:44:48,469 --> 02:44:44,560

it would be the same conversations today

3920

02:44:55,190 --> 02:44:51,910

you know he really studied uh the topic

3921

02:44:59,030 --> 02:44:55,200

uh it's pretty scholarly and

3922

02:45:00,070 --> 02:44:59,040

and so i would think that he would have

3923

02:45:03,670 --> 02:45:00,080

some

3924

02:45:05,429 --> 02:45:03,680

if he was still around that's

3925

02:45:08,469 --> 02:45:05,439

it's always a tragedy when you lose a

3926

02:45:14,790 --> 02:45:11,590

but yeah i

3927

02:45:16,710 --> 02:45:14,800

i do think that he was really exploring

3928

02:45:20,389 --> 02:45:16,720

this idea of the yugas and

3929

02:45:23,429 --> 02:45:20,399

and and getting much more interested in

3930

02:45:25,429 --> 02:45:23,439

in what not just the mayans but other

3931

02:45:27,990 --> 02:45:25,439

uh cultures we're talking about we we

3932

02:45:32,150 --> 02:45:28,000

talked once about the hopi which is

3933

02:45:37,349 --> 02:45:35,510

sort of i guess they'd be

3934

02:45:39,670 --> 02:45:37,359

descendants of you know some of the

3935

02:45:41,910 --> 02:45:39,680

mayan people in some ways

3936

02:45:44,230 --> 02:45:41,920

and they have their myths about the

3937

02:45:45,830 --> 02:45:44,240

different worlds the mayans called them

3938

02:45:47,670 --> 02:45:45,840

different sons with the hope we call

3939

02:45:49,830 --> 02:45:47,680

them different worlds

3940

02:45:51,910 --> 02:45:49,840

and so there seems to be something real

3941

02:45:53,990 --> 02:45:51,920

there

3942

02:45:56,469 --> 02:45:54,000

i wish i knew what it was for certain

3943

02:45:58,230 --> 02:45:56,479

well now when we look at

3944

02:46:00,230 --> 02:45:58,240

the the different cultures and

3945

02:46:02,870 --> 02:46:00,240

civilizations around the world that

3946

02:46:04,710 --> 02:46:02,880

have these ginormous calendars and these

3947

02:46:07,910 --> 02:46:04,720

cycles of time

3948

02:46:11,510 --> 02:46:07,920

do they eventually lock up uh

3949

02:46:17,269 --> 02:46:11,520

with each other where they

3950

02:46:23,750 --> 02:46:20,550

um it appears a few of them do so

3951

02:46:25,990 --> 02:46:23,760

uh such as i have got this

3952

02:46:27,429 --> 02:46:26,000

i've got this in my book but uh so i'm

3953

02:46:31,190 --> 02:46:27,439

trying to remember

3954

02:46:35,990 --> 02:46:31,200

but i i believe the uh the ancient

3955

02:46:39,910 --> 02:46:36,000

hebrew uh the start of their calendar

3956

02:46:41,269 --> 02:46:39,920

uh goes very well uh with the start of

3957

02:46:44,550 --> 02:46:41,279

the mayan

3958

02:46:47,110 --> 02:46:44,560

uh and i think it's it's

3959

02:46:47,910 --> 02:46:47,120

what they put us in the force sun so i

3960

02:46:49,750 --> 02:46:47,920

think it's the

3961

02:46:51,190 --> 02:46:49,760

start of their second son something like

3962

02:46:54,230 --> 02:46:51,200

that and there's

3963

02:46:56,070 --> 02:46:54,240

there's another one too but

3964

02:46:57,750 --> 02:46:56,080

again it's in the early chapters of lost

3965

02:46:59,590 --> 02:46:57,760

durham at the time i don't remember the

3966

02:47:02,710 --> 02:46:59,600

exact

3967

02:47:07,190 --> 02:47:02,720

correlation there well and how does this

3968

02:47:10,550 --> 02:47:07,200

uh relate to the age of aquarius

3969

02:47:12,790 --> 02:47:10,560

and and and the precession and

3970

02:47:13,590 --> 02:47:12,800

and the reason the reason why i bring

3971

02:47:16,630 --> 02:47:13,600

that up

3972

02:47:18,070 --> 02:47:16,640

is the mayan calendar like way out of

3973

02:47:21,590 --> 02:47:18,080

sync

3974

02:47:23,429 --> 02:47:21,600

with the other cosmology that we know as

3975

02:47:27,349 --> 02:47:23,439

you know pretty much fact because we can

3976

02:47:31,910 --> 02:47:29,830

no it's it's a great uh comment you're

3977

02:47:35,590 --> 02:47:31,920

making there

3978

02:47:36,950 --> 02:47:35,600

so this term the dawning of the age of

3979

02:47:41,510 --> 02:47:36,960

aquarius

3980

02:47:45,190 --> 02:47:41,520

uh is is a processional movement it's

3981

02:47:48,469 --> 02:47:45,200

when you look at uh

3982

02:47:51,750 --> 02:47:48,479

at the heavens on the

3983

02:47:54,389 --> 02:47:51,760

spring equinox we have moved

3984

02:47:56,070 --> 02:47:54,399

slowly through the age of pisces over

3985

02:47:57,830 --> 02:47:56,080

the last 2000 years

3986

02:47:59,110 --> 02:47:57,840

to now just coming into the age of

3987

02:48:01,670 --> 02:47:59,120

aquarius

3988

02:48:02,790 --> 02:48:01,680

so yeah it's right around now and the

3989

02:48:05,429 --> 02:48:02,800

reason

3990

02:48:06,550 --> 02:48:05,439

i can't pin it down exactly to a year

3991

02:48:09,670 --> 02:48:06,560

for you

3992

02:48:10,790 --> 02:48:09,680

is that people argue about well where is

3993

02:48:14,230 --> 02:48:10,800

the beginning

3994

02:48:17,349 --> 02:48:14,240

of aquarius and you know where exactly

3995

02:48:19,429 --> 02:48:17,359

do you cut off a constellation

3996

02:48:20,790 --> 02:48:19,439

we've done it in modern times just with

3997

02:48:23,670 --> 02:48:20,800

you know

3998

02:48:25,910 --> 02:48:23,680

just saying well each one is uh 30

3999

02:48:26,710 --> 02:48:25,920

degrees so you have 12 that's 360

4000

02:48:28,870 --> 02:48:26,720

degrees

4001  
02:48:31,750 --> 02:48:28,880  
but we think the ancients were a little

4002  
02:48:34,870 --> 02:48:31,760  
bit more accurate on these things

4003  
02:48:38,070 --> 02:48:34,880  
but anyway so that's that is uh

4004  
02:48:41,510 --> 02:48:38,080  
that term relates to how you

4005  
02:48:45,030 --> 02:48:41,520  
tell time in the great year and

4006  
02:48:46,870 --> 02:48:45,040  
uh and and the the hour hand or the

4007  
02:48:48,550 --> 02:48:46,880  
the clock face would be the 12

4008  
02:48:51,110 --> 02:48:48,560  
constellations

4009  
02:48:52,710 --> 02:48:51,120  
and the hour hand is the equinox that

4010  
02:48:54,950 --> 02:48:52,720  
that moves through them

4011  
02:48:57,190 --> 02:48:54,960  
you know it's really interesting to to

4012  
02:49:01,510 --> 02:48:57,200  
realize that

4013  
02:49:02,950 --> 02:49:01,520

this great year is uh roughly 24 000

4014

02:49:05,429 --> 02:49:02,960

years long

4015

02:49:06,630 --> 02:49:05,439

you know 2 000 years through each

4016

02:49:09,670 --> 02:49:06,640

constellation

4017

02:49:12,710 --> 02:49:09,680

roughly um and it's it's

4018

02:49:15,269 --> 02:49:12,720

composed of two twelve thousand years

4019

02:49:16,950 --> 02:49:15,279

periods twelve thousand you're ascending

4020

02:49:18,230 --> 02:49:16,960

going up and then twelve thousand years

4021

02:49:20,870 --> 02:49:18,240

you're going down

4022

02:49:22,309 --> 02:49:20,880

that supposedly bottomed out around 500

4023

02:49:24,389 --> 02:49:22,319

a.d which is

4024

02:49:25,269 --> 02:49:24,399

pretty much the depths of the dark age

4025

02:49:28,070 --> 02:49:25,279

you know when all the great

4026

02:49:31,590 --> 02:49:28,080

civilizations had fallen

4027

02:49:35,269 --> 02:49:31,600

and we wear a microcosm of that

4028

02:49:37,830 --> 02:49:35,279

on our on our wrist today or it's on our

4029

02:49:39,349 --> 02:49:37,840

on our analog clocks you know there's 12

4030

02:49:42,150 --> 02:49:39,359

hours of am

4031

02:49:42,950 --> 02:49:42,160

and 12 hours of pm right for a total of

4032

02:49:47,590 --> 02:49:42,960

24

4033

02:49:49,269 --> 02:49:47,600

microcosm

4034

02:49:51,030 --> 02:49:49,279

of the great year and i think it's one

4035

02:49:52,630 --> 02:49:51,040

way that the ancients would try to

4036

02:49:55,510 --> 02:49:52,640

preserve these things

4037

02:49:56,710 --> 02:49:55,520

you know make them so obvious and in our

4038

02:49:59,110 --> 02:49:56,720

daily lives

4039

02:50:00,469 --> 02:49:59,120

that perhaps we won't forget them during

4040

02:50:03,910 --> 02:50:00,479

the dark age

4041

02:50:08,309 --> 02:50:03,920

uh but most people did well

4042

02:50:11,030 --> 02:50:08,319

when we look at uh the 25-800

4043

02:50:13,190 --> 02:50:11,040

you know year-long cycle right the

4044

02:50:15,670 --> 02:50:13,200

precession

4045

02:50:17,190 --> 02:50:15,680

that's based on the current current rate

4046

02:50:19,429 --> 02:50:17,200

that's right that's right

4047

02:50:21,990 --> 02:50:19,439

and and i still don't know how the

4048

02:50:25,269 --> 02:50:22,000

ancients figure that out i've

4049

02:50:27,110 --> 02:50:25,279

yeah you and i and and jason martel

4050

02:50:29,269 --> 02:50:27,120

you know we've sat and talked about this

4051

02:50:30,950 --> 02:50:29,279

so much but i can't imagine

4052

02:50:32,950 --> 02:50:30,960

you know like putting a stick in the

4053

02:50:36,230 --> 02:50:32,960

ground and

4054

02:50:38,950 --> 02:50:36,240

right and then looking at it and and and

4055

02:50:42,790 --> 02:50:38,960

matching that up with the stars

4056

02:50:47,190 --> 02:50:42,800

day after day after day for generations

4057

02:50:50,469 --> 02:50:47,200

to come up with a a degree a degree

4058

02:50:52,469 --> 02:50:50,479

i mean how i i just i i can't wrap my

4059

02:50:57,110 --> 02:50:52,479

mind around that but anyway

4060

02:51:00,950 --> 02:50:57,120

um back in uh i think it was around 1930

4061

02:51:04,550 --> 02:51:00,960

where the uh the astronomical union

4062

02:51:05,429 --> 02:51:04,560

said okay uh age of aquarius is going to

4063

02:51:08,550 --> 02:51:05,439

be around

4064

02:51:11,190 --> 02:51:08,560

ce 2600

4065

02:51:13,349 --> 02:51:11,200

according to our calculations and that

4066

02:51:15,750 --> 02:51:13,359

kind of bummed me out

4067

02:51:18,790 --> 02:51:15,760

and and the reason for that well yeah i

4068

02:51:21,269 --> 02:51:18,800

i'm not going to be around for it right

4069

02:51:23,030 --> 02:51:21,279

and it's uh it's way out there it's it's

4070

02:51:24,389 --> 02:51:23,040

2600 and

4071

02:51:26,950 --> 02:51:24,399

you know at the time when i had read

4072

02:51:29,830 --> 02:51:26,960

this i was probably 10 years old

4073

02:51:31,030 --> 02:51:29,840

um and i liked the fifth dimension i

4074

02:51:33,269 --> 02:51:31,040

liked the song

4075

02:51:34,710 --> 02:51:33,279

i checked it out if you know what it is

4076

02:51:37,190 --> 02:51:34,720

yeah it was it was yeah

4077

02:51:38,070 --> 02:51:37,200

well when you go and you jump into this

4078

02:51:41,429 --> 02:51:38,080

there have been

4079

02:51:43,030 --> 02:51:41,439

age of aquarius numbers that have been

4080

02:51:45,030 --> 02:51:43,040

throwing around you know

4081

02:51:46,389 --> 02:51:45,040

it's in the 1800s it's in the early

4082

02:51:49,750 --> 02:51:46,399

1900s

4083

02:51:52,389 --> 02:51:49,760

in 1850 it's in 1844. it's going to be

4084

02:51:53,750 --> 02:51:52,399

in 1979 it's going to be a valentine's

4085

02:51:56,150 --> 02:51:53,760

day in 2006.

4086

02:51:57,670 --> 02:51:56,160

whatever the these numbers have been

4087

02:52:00,870 --> 02:51:57,680

thrown out there everywhere

4088

02:52:04,150 --> 02:52:00,880

is it because they can't come up with an

4089

02:52:06,389 --> 02:52:04,160

actual start date and

4090

02:52:07,349 --> 02:52:06,399

which takes me back to the mayan

4091

02:52:09,670 --> 02:52:07,359

calendar

4092

02:52:12,469 --> 02:52:09,680

how can you know what the official start

4093

02:52:15,910 --> 02:52:12,479

date is for it to line up to now

4094

02:52:19,750 --> 02:52:15,920

could it line up with 2600 uh

4095

02:52:21,510 --> 02:52:19,760

you know a.d do you understand where i'm

4096

02:52:21,990 --> 02:52:21,520

going with this we don't have the start

4097

02:52:25,510 --> 02:52:22,000

date

4098

02:52:27,030 --> 02:52:25,520

of any calendar so therefore calculating

4099

02:52:30,630 --> 02:52:27,040

things today

4100

02:52:33,830 --> 02:52:30,640

with precision uh it doesn't really work

4101  
02:52:36,230 --> 02:52:33,840  
at least in my mind

4102  
02:52:37,429 --> 02:52:36,240  
yeah we don't understand the great clock

4103  
02:52:39,590 --> 02:52:37,439  
in the sky

4104  
02:52:42,230 --> 02:52:39,600  
the way the ancients did that's for sure

4105  
02:52:43,269 --> 02:52:42,240  
because we just don't observe it very

4106  
02:52:47,510 --> 02:52:43,279  
much

4107  
02:52:50,950 --> 02:52:47,520  
we do have you know some understanding

4108  
02:52:55,750 --> 02:52:50,960  
from kepler we we know that the

4109  
02:52:58,950 --> 02:52:55,760  
um you know that the procession rate

4110  
02:53:02,070 --> 02:52:58,960  
isn't the same every single year

4111  
02:53:03,830 --> 02:53:02,080  
it's it speeds up and it slows down

4112  
02:53:06,309 --> 02:53:03,840  
exactly what you would expect if

4113  
02:53:08,309 --> 02:53:06,319

precession is caused by

4114

02:53:09,590 --> 02:53:08,319

our whole solar system orbiting another

4115

02:53:11,910 --> 02:53:09,600

star you know

4116

02:53:13,349 --> 02:53:11,920

as you get closer to the mass we go a

4117

02:53:15,910 --> 02:53:13,359

little faster as you get farther away

4118

02:53:18,790 --> 02:53:15,920

from the mass we go a little bit slower

4119

02:53:20,870 --> 02:53:18,800

and the precession rate has been

4120

02:53:22,790 --> 02:53:20,880

speeding up we have really good records

4121

02:53:26,630 --> 02:53:22,800

of this the last

4122

02:53:29,190 --> 02:53:26,640

few hundred years um

4123

02:53:31,349 --> 02:53:29,200

but the actual cut off of you know how

4124

02:53:35,830 --> 02:53:31,359

big is this number

4125

02:53:38,870 --> 02:53:35,840

and think of think of aquarius as uh

4126  
02:53:42,230 --> 02:53:38,880  
you know the number one if aries is

4127  
02:53:45,830 --> 02:53:42,240  
12 on a clock and that's if you use

4128  
02:53:47,349 --> 02:53:45,840  
use the spring equinox but yeah they're

4129  
02:53:48,790 --> 02:53:47,359  
all a little bit different size and we

4130  
02:53:50,630 --> 02:53:48,800  
don't know they cut off

4131  
02:53:52,870 --> 02:53:50,640  
and and that's okay heck you wouldn't

4132  
02:53:54,950 --> 02:53:52,880  
want to know for sure that the

4133  
02:53:55,910 --> 02:53:54,960  
the earth is ending what would you do if

4134  
02:53:59,030 --> 02:53:55,920  
it was

4135  
02:54:02,790 --> 02:54:00,950  
i'm putting you on the spot i wouldn't

4136  
02:54:05,030 --> 02:54:02,800  
be doing this show with you i'll be

4137  
02:54:08,230 --> 02:54:05,040  
playing guitar with my wife on an

4138  
02:54:08,790 --> 02:54:08,240

island somewhere uh listening to van

4139

02:54:11,670 --> 02:54:08,800

halen

4140

02:54:13,510 --> 02:54:11,680

and eating lots of captain crunch that's

4141

02:54:14,389 --> 02:54:13,520

what i would do i throw all caution to

4142

02:54:17,429 --> 02:54:14,399

the wind

4143

02:54:20,790 --> 02:54:17,439

and the uh and there's reasons

4144

02:54:23,590 --> 02:54:20,800

to to think like that too as well

4145

02:54:25,429 --> 02:54:23,600

but the reason why i want to know if

4146

02:54:29,030 --> 02:54:25,439

anything locks up

4147

02:54:31,110 --> 02:54:29,040

is because if we if we cross

4148

02:54:33,590 --> 02:54:31,120

start to cross-reference all of these

4149

02:54:36,710 --> 02:54:33,600

ancient calendars

4150

02:54:36,950 --> 02:54:36,720

and we can get a beginning date and and

4151  
02:54:41,269 --> 02:54:36,960  
an

4152  
02:54:43,510 --> 02:54:41,279  
the precession

4153  
02:54:45,590 --> 02:54:43,520  
then we have something to go on and it's

4154  
02:54:49,830 --> 02:54:45,600  
the proof that we need

4155  
02:54:51,990 --> 02:54:49,840  
uh to show that ancient man wasn't dumb

4156  
02:54:53,429 --> 02:54:52,000  
and i i don't want to hear that stone

4157  
02:54:56,469 --> 02:54:53,439  
age man didn't have

4158  
02:54:58,950 --> 02:54:56,479  
a clue on anything uh because

4159  
02:55:00,630 --> 02:54:58,960  
clearly uh we understood things five

4160  
02:55:02,230 --> 02:55:00,640  
thousand years ago that we don't have a

4161  
02:55:04,630 --> 02:55:02,240  
grasp on today

4162  
02:55:07,030 --> 02:55:04,640  
that's why i'm i just want to see

4163  
02:55:10,950 --> 02:55:07,040

something out there just like e walter

4164

02:55:13,990 --> 02:55:10,960

with the procession and all of these uh

4165

02:55:16,550 --> 02:55:14,000

cultures calendars that they

4166

02:55:17,910 --> 02:55:16,560

that they lived by if we can get them to

4167

02:55:19,590 --> 02:55:17,920

sync up with each other

4168

02:55:22,550 --> 02:55:19,600

then we're going to find out something

4169

02:55:25,510 --> 02:55:22,560

i'm i'm very excited about it

4170

02:55:26,070 --> 02:55:25,520

yeah you know the the my favorite book

4171

02:55:28,469 --> 02:55:26,080

on that

4172

02:55:29,830 --> 02:55:28,479

is that uh holy science book i mentioned

4173

02:55:32,389 --> 02:55:29,840

it's by

4174

02:55:34,790 --> 02:55:32,399

it was written in the 1800s by swami

4175

02:55:38,309 --> 02:55:34,800

sryuk pesfor

4176

02:55:40,389 --> 02:55:38,319

just a beautiful beautiful

4177

02:55:42,950 --> 02:55:40,399

book but he not only talks about the

4178

02:55:45,349 --> 02:55:42,960

calculations

4179

02:55:47,590 --> 02:55:45,359

but he talks about uh the different

4180

02:55:49,389 --> 02:55:47,600

characteristics of each age

4181

02:55:51,510 --> 02:55:49,399

and he said you know you can only

4182

02:55:53,910 --> 02:55:51,520

understand ages

4183

02:55:55,830 --> 02:55:53,920

below you because we use so little of

4184

02:55:57,349 --> 02:55:55,840

our brains right now you know the dark

4185

02:55:59,269 --> 02:55:57,359

age you use like 10

4186

02:56:00,950 --> 02:55:59,279

and now we've just come out of the dark

4187

02:56:03,269 --> 02:56:00,960

age with the renaissance and we're using

4188

02:56:06,870 --> 02:56:03,279

maybe 12 or 15

4189

02:56:09,990 --> 02:56:06,880

um but when you start using you know

4190

02:56:13,429 --> 02:56:10,000

half your brain or something in uh

4191

02:56:16,790 --> 02:56:13,439

say in the next stage starting 4100 a.d

4192

02:56:18,309 --> 02:56:16,800

uh it's supposed to be uh telepathy is

4193

02:56:19,429 --> 02:56:18,319

once again supposed to be common

4194

02:56:21,190 --> 02:56:19,439

knowledge

4195

02:56:22,790 --> 02:56:21,200

and imagine what a better world it would

4196

02:56:28,150 --> 02:56:22,800

be if

4197

02:56:34,790 --> 02:56:30,469

it'd be annoying intuitive it'd be a

4198

02:56:39,429 --> 02:56:38,389

oh man and uh before uh we say good

4199

02:56:43,030 --> 02:56:39,439

night

4200

02:56:46,150 --> 02:56:43,040

do you think uh that

4201  
02:56:47,030 --> 02:56:46,160  
there is a gravitational pull right now

4202  
02:56:56,550 --> 02:56:47,040  
that

4203  
02:56:59,429 --> 02:56:56,560  
2020 on this planet where it seems like

4204  
02:57:00,230 --> 02:56:59,439  
uh we have nothing but confusion right

4205  
02:57:03,110 --> 02:57:00,240  
now

4206  
02:57:03,349 --> 02:57:03,120  
is it is it an outside influence or is

4207  
02:57:07,030 --> 02:57:03,359  
it

4208  
02:57:09,830 --> 02:57:07,040  
us you know

4209  
02:57:11,830 --> 02:57:09,840  
astronomy is called the royal science uh

4210  
02:57:13,910 --> 02:57:11,840  
but what was its

4211  
02:57:14,950 --> 02:57:13,920  
ancestor where did it come from it came

4212  
02:57:18,630 --> 02:57:14,960  
from what we call

4213  
02:57:19,510 --> 02:57:18,640

astrology which uh is completely

4214

02:57:22,309 --> 02:57:19,520

denigrated

4215

02:57:23,429 --> 02:57:22,319

uh right now in in mainstream science

4216

02:57:26,389 --> 02:57:23,439

but

4217

02:57:27,590 --> 02:57:26,399

astrology would say yes every heavenly

4218

02:57:31,510 --> 02:57:27,600

body

4219

02:57:34,230 --> 02:57:31,520

has its effect and i think science is

4220

02:57:35,990 --> 02:57:34,240

just barely acknowledging a little piece

4221

02:57:37,670 --> 02:57:36,000

of that you know that okay it has some

4222

02:57:39,750 --> 02:57:37,680

gravitational effect but it certainly

4223

02:57:42,630 --> 02:57:39,760

has no other effect on us

4224

02:57:44,389 --> 02:57:42,640

and i imagine that when we're a much

4225

02:57:46,790 --> 02:57:44,399

wiser species

4226  
02:57:47,750 --> 02:57:46,800  
using much more of our brains far more

4227  
02:57:50,710 --> 02:57:47,760  
conscious

4228  
02:57:51,670 --> 02:57:50,720  
we'll realize that you know not only are

4229  
02:57:54,469 --> 02:57:51,680  
we

4230  
02:57:56,790 --> 02:57:54,479  
much more than just this physical bag of

4231  
02:57:59,910 --> 02:57:56,800  
blood and bones walking around

4232  
02:58:01,030 --> 02:57:59,920  
but that um there are there are much

4233  
02:58:03,030 --> 02:58:01,040  
finer forces

4234  
02:58:04,469 --> 02:58:03,040  
and and that we're all sort of affecting

4235  
02:58:07,670 --> 02:58:04,479  
each other

4236  
02:58:08,950 --> 02:58:07,680  
and yes that's that's my guess and i've

4237  
02:58:12,150 --> 02:58:08,960  
gone on a limb

4238  
02:58:15,030 --> 02:58:12,160

now definitely when uh

4239

02:58:17,030 --> 02:58:15,040

is cpac happening did you have to move

4240

02:58:19,670 --> 02:58:17,040

it to next year

4241

02:58:20,870 --> 02:58:19,680

yeah we just just postponed it we were

4242

02:58:22,950 --> 02:58:20,880

gonna do it

4243

02:58:24,389 --> 02:58:22,960

uh you know in the fall like we always

4244

02:58:27,990 --> 02:58:24,399

do but

4245

02:58:29,110 --> 02:58:28,000

um you know until things are really safe

4246

02:58:32,550 --> 02:58:29,120

we just

4247

02:58:35,190 --> 02:58:32,560

don't want everyone to travel to get in

4248

02:58:37,349 --> 02:58:35,200

one room so we're talking about some

4249

02:58:38,230 --> 02:58:37,359

virtual ideas and maybe i can talk to

4250

02:58:39,750 --> 02:58:38,240

you offline and

4251

02:58:42,469 --> 02:58:39,760

we can brainstorm on that yeah

4252

02:58:44,870 --> 02:58:42,479

absolutely absolutely it was supposed to

4253

02:58:48,550 --> 02:58:44,880

be october 4th through the 6th

4254

02:58:49,710 --> 02:58:48,560

and everybody can go to cpac online

4255

02:58:51,670 --> 02:58:49,720

and the links are over at

4256

02:58:52,389 --> 02:58:51,680

jimmychurchradio.com to stay on top of

4257

02:58:54,230 --> 02:58:52,399

things

4258

02:58:56,230 --> 02:58:54,240

i would love to talk to you more about

4259

02:58:58,429 --> 02:58:56,240

it it's such an important conference

4260

02:58:59,990 --> 02:58:58,439

and of course there is dot

4261

02:59:01,269 --> 02:59:00,000

binaryresearchinstitute.com as well we

4262

02:59:04,150 --> 02:59:01,279

have those links up

4263

02:59:06,870 --> 02:59:04,160

walter cruttenton amazing conversation

4264

02:59:09,510 --> 02:59:06,880

thank you so much sir

4265

02:59:10,710 --> 02:59:09,520

thank you jimmy surf away you're the

4266

02:59:14,469 --> 02:59:10,720

best

4267

02:59:17,349 --> 02:59:14,479

walter grunted yeah absolutely and uh

4268

02:59:17,830 --> 02:59:17,359

going pole to pole tonight all the way

4269

02:59:19,830 --> 02:59:17,840

through

4270

02:59:23,230 --> 02:59:19,840

overtime with walter thank you so much

4271

02:59:24,630 --> 02:59:23,240

again uh cpac online at

4272

02:59:26,830 --> 02:59:24,640

binaryresearchinstitute.com

4273

02:59:28,150 --> 02:59:26,840

both links are over at

4274

02:59:29,990 --> 02:59:28,160

jimmychurchradio.com

4275

02:59:31,750 --> 02:59:30,000

david black's executive producers rita

4276

02:59:33,510 --> 02:59:31,760

kamarian show is produced by hilton j

4277

02:59:35,429 --> 02:59:33,520

palmer renee dennis and kevin

4278

02:59:36,550 --> 02:59:35,439

announcers are steve harter gene vitello

4279

02:59:38,710 --> 02:59:36,560

mark d kobar

4280

02:59:42,790 --> 02:59:38,720

webmaster is drew the geek music doug

4281

02:59:44,870 --> 02:59:42,800

aldrige intro space boy space boy music

4282

02:59:46,750 --> 02:59:44,880

faded black is produced by kjcr for the

4283

02:59:48,389 --> 02:59:46,760

game changer network and syndication is

4284

02:59:51,110 --> 02:59:48,399

kgra

4285

02:59:53,269 --> 02:59:51,120

the planet this broadcast owning

4286

02:59:54,630 --> 02:59:53,279

copyrighted 2020 by fade to black in the

4287

02:59:57,269 --> 02:59:54,640

game changer network

4288

02:59:58,790 --> 02:59:57,279

inc it cannot be re-broadcast downloaded

4289

02:59:59,510 --> 02:59:58,800

copied or used anywhere in the known

4290

03:00:01,190 --> 02:59:59,520

universe

4291

03:00:03,190 --> 03:00:01,200

without written permission from fade to

4292

03:00:05,830 --> 03:00:03,200

black or the game changer network

4293

03:00:07,510 --> 03:00:05,840

our meals jimmy church tomorrow night

4294

03:00:10,469 --> 03:00:07,520

right here

4295

03:00:11,349 --> 03:00:10,479

dean ray very special thanks to walter

4296

03:00:13,190 --> 03:00:11,359

cruttenton

4297

03:00:15,030 --> 03:00:13,200

until tomorrow night i want everybody to

4298

03:00:26,620 --> 03:00:15,040

be safe

4299

03:00:26,630 --> 03:00:36,870

[Music]

4300

03:00:36,880 --> 03:00:41,870

wow

