



1  
00:00:07,099 --> 00:00:03,260  
so what I want to regale you with today

2  
00:00:11,390 --> 00:00:07,109  
is a really an extension of Barbara's

3  
00:00:13,459 --> 00:00:11,400  
talk a footnote really if you will about

4  
00:00:22,250 --> 00:00:13,469  
the situation that we're really in and

5  
00:00:24,890 --> 00:00:22,260  
why so I'm going to slide through a few

6  
00:00:27,830 --> 00:00:24,900  
of these slides quickly because of the

7  
00:00:29,720 --> 00:00:27,840  
time limitation and I will be just a

8  
00:00:34,340 --> 00:00:29,730  
Warren Yan will be reading two of them

9  
00:00:37,100 --> 00:00:34,350  
so that's just this necessary but we

10  
00:00:42,020 --> 00:00:37,110  
have a list of scientific mysteries here

11  
00:00:46,910 --> 00:00:42,030  
and I've organized them somewhat

12  
00:00:49,279 --> 00:00:46,920  
randomly we have in particular very

13  
00:00:52,670 --> 00:00:49,289

unusual in this year eclipse and nominal

14

00:00:55,520 --> 00:00:52,680

anomalies and right outside that door

15

00:00:58,639 --> 00:00:55,530

into your left you will see a pendulum

16

00:01:01,790 --> 00:00:58,649

that relates to that and relates to the

17

00:01:03,830 --> 00:01:01,800

workshop on Sunday which I highly urge

18

00:01:06,350 --> 00:01:03,840

you to read about at the very back of

19

00:01:09,469 --> 00:01:06,360

your program because it's really going

20

00:01:13,580 --> 00:01:09,479

to be a unique and fascinating thing

21

00:01:18,530 --> 00:01:13,590

that ties into a one-time amazing

22

00:01:21,620 --> 00:01:18,540

eclipse on the 21st of August through

23

00:01:25,730 --> 00:01:21,630

the United States so just as a tip for

24

00:01:32,800 --> 00:01:25,740

that we have we have met mysteries

25

00:01:43,240 --> 00:01:38,359

involving how we can heal how we how our

26

00:01:46,340 --> 00:01:43,250

bodies interact with the world

27

00:01:53,030 --> 00:01:46,350

mysteries involving things we shouldn't

28

00:01:59,660 --> 00:01:53,040

be able to do or see or know mysteries

29

00:02:04,280 --> 00:01:59,670

that defy classification and I divide

30

00:02:05,820 --> 00:02:04,290

them into that our field is to expand

31

00:02:08,460 --> 00:02:05,830

the boundaries in three

32

00:02:10,859 --> 00:02:08,470

areas what can be perceived or

33

00:02:13,890 --> 00:02:10,869

experienced or imagined what can be

34

00:02:17,670 --> 00:02:13,900

altered by intention what can be learned

35

00:02:19,980 --> 00:02:17,680

about anomalous experiences so I've kind

36

00:02:22,950 --> 00:02:19,990

of classify them that way what can be

37

00:02:26,010 --> 00:02:22,960

perceived you have ESP or from of

38

00:02:31,860 --> 00:02:26,020

viewing clairvoyance dowsing near-death

39  
00:02:34,080 --> 00:02:31,870  
experiences and UFOs and alien abduction

40  
00:02:40,410 --> 00:02:34,090  
also have to do with how we perceive

41  
00:02:42,630 --> 00:02:40,420  
things what can be altered by intention

42  
00:02:45,150 --> 00:02:42,640  
we should not be able to alter the

43  
00:02:49,520 --> 00:02:45,160  
things that can be altered by just

44  
00:02:51,780 --> 00:02:49,530  
intention and there's non human

45  
00:02:57,020 --> 00:02:51,790  
intention involved in post-mortem

46  
00:03:03,860 --> 00:03:00,240  
and finally what can be learned about

47  
00:03:08,340 --> 00:03:03,870  
the way we experience these anomalous

48  
00:03:09,960 --> 00:03:08,350  
the study of first-person inquiry the

49  
00:03:13,710 --> 00:03:09,970  
study of altered states of consciousness

50  
00:03:16,590 --> 00:03:13,720  
of paranormal belief what causes someone

51  
00:03:18,479 --> 00:03:16,600  
to believe and experience in this what

52  
00:03:21,330 --> 00:03:18,489  
happens when someone is traumatized and

53  
00:03:25,560 --> 00:03:21,340  
suddenly these these abilities get

54  
00:03:29,640 --> 00:03:25,570  
clicked on turns on and we have a

55  
00:03:32,040 --> 00:03:29,650  
variety of centers for this work the

56  
00:03:35,370 --> 00:03:32,050  
ones in white are the ones that are no

57  
00:03:38,250 --> 00:03:35,380  
longer with us including Yale and of

58  
00:03:41,070 --> 00:03:38,260  
course pear the Ryan Research Center at

59  
00:03:42,120 --> 00:03:41,080  
Duke the first one I was there while it

60  
00:03:47,130 --> 00:03:42,130  
was still in operation

61  
00:03:49,949 --> 00:03:47,140  
and a number of these are really pretty

62  
00:03:55,560 --> 00:03:49,959  
pretty weak in terms of an ability to

63  
00:03:58,170 --> 00:03:55,570

conduct original research and ours is

64

00:04:00,270 --> 00:03:58,180

really really the strong one here and we

65

00:04:00,750 --> 00:04:00,280

don't really know what the Department of

66

00:04:02,699 --> 00:04:00,760

Defense

67

00:04:04,289 --> 00:04:02,709

is doing although me maybe John

68

00:04:08,280 --> 00:04:04,299

Alexander can tell us something about

69

00:04:13,819 --> 00:04:08,290

them so so this is what it's kind of

70

00:04:17,930 --> 00:04:13,829

down to and so the question I have is

71

00:04:25,050 --> 00:04:17,940

why does mainstream scientists tell us

72

00:04:27,629 --> 00:04:25,060

close that door and so again the one I

73

00:04:29,490 --> 00:04:27,639

was going to read in contemplating these

74

00:04:32,040 --> 00:04:29,500

mysteries what seems equally mysterious

75

00:04:34,830 --> 00:04:32,050

is the accountable lack of official

76

00:04:38,700 --> 00:04:34,840

interest in the event investigation of

77

00:04:40,770 --> 00:04:38,710

such anomalous phenomena anomalous wide

78

00:04:49,980 --> 00:04:40,780

because they cannot be accounted for by

79

00:04:53,040 --> 00:04:49,990

the prevailing model of reality what

80

00:04:55,050 --> 00:04:53,050

keeps such phenomena from being

81

00:05:02,600 --> 00:04:55,060

universally deemed among the most

82

00:05:09,570 --> 00:05:06,600

there's a scale there's a continuum and

83

00:05:12,659 --> 00:05:09,580

it starts this is a cartoon

84

00:05:16,140 --> 00:05:12,669

representation see here we have

85

00:05:18,480 --> 00:05:16,150

sociology at the far end sociology is

86

00:05:21,060 --> 00:05:18,490

just applied psychology but psychology

87

00:05:23,700 --> 00:05:21,070

is just apply biology but biology is

88

00:05:27,870 --> 00:05:23,710

just applied chemistry which is just

89

00:05:32,870 --> 00:05:27,880

applied physics way over here Oh

90

00:05:39,960 --> 00:05:32,880

mathematics and so that the idea of that

91

00:05:45,750 --> 00:05:39,970

that continuum is extends to more than

92

00:05:48,930 --> 00:05:45,760

Lauren something softer and softer ways

93

00:05:53,670 --> 00:05:48,940

of looking at learning and so we have

94

00:05:57,510 --> 00:05:53,680

soft humanities sliding toward the real

95

00:06:00,860 --> 00:05:57,520

thing right hard science objective

96

00:06:04,890 --> 00:06:00,870

third-person data-driven quantitative

97

00:06:12,839 --> 00:06:04,900

double-blind randomized also naive

98

00:06:21,550 --> 00:06:16,390

the justification is that hard science

99

00:06:25,209 --> 00:06:21,560

yields deep facts and grants soft

100

00:06:30,450 --> 00:06:25,219

humanities yields opinion and the

101  
00:06:35,339 --> 00:06:30,460  
imaginary hard science yields salvific

102  
00:06:38,260 --> 00:06:35,349  
it's our Savior soft humanities yields

103  
00:06:44,140 --> 00:06:38,270  
intellectual property to be sold through

104  
00:06:48,879 --> 00:06:44,150  
iTunes what is science as we know it a

105  
00:06:50,920 --> 00:06:48,889  
set of methods a set of findings and a

106  
00:06:58,390 --> 00:06:50,930  
set of ethical principles that's what

107  
00:07:03,480 --> 00:06:58,400  
science is what is it not it's not a

108  
00:07:07,240 --> 00:07:03,490  
belief system that relies on unwarranted

109  
00:07:10,089 --> 00:07:07,250  
presuppositions and unacknowledged it is

110  
00:07:12,629 --> 00:07:10,099  
not a filter to establish a boundary

111  
00:07:17,610 --> 00:07:12,639  
between what should or shouldn't be

112  
00:07:21,700 --> 00:07:17,620  
explored and it is not the possession of

113  
00:07:26,589 --> 00:07:21,710

gatekeepers and priests who control

114

00:07:28,839 --> 00:07:26,599

careers and funding now I'm going to

115

00:07:30,730 --> 00:07:28,849

talk a little bit about what controls

116

00:07:33,869 --> 00:07:30,740

all this and I think of it as a tower

117

00:07:37,029 --> 00:07:33,879

the metaphor in my mind for the regnant

118

00:07:41,890 --> 00:07:37,039

paradigm which we've all heard about for

119

00:07:46,839 --> 00:07:41,900

50 years from Thomas Kuhn is I think of

120

00:07:51,730 --> 00:07:46,849

it as a tower towering over us and it's

121

00:07:55,600 --> 00:07:51,740

that regnant paradigm is what I call a

122

00:07:57,189 --> 00:07:55,610

mimetic system and I'm going to go

123

00:07:59,980 --> 00:07:57,199

through this quickly because many of you

124

00:08:03,269 --> 00:07:59,990

are familiar with meme theory in general

125

00:08:06,189 --> 00:08:03,279

memes are cultural forms that are

126

00:08:08,890 --> 00:08:06,199

perpetuated in a way parallel to or

127

00:08:12,879 --> 00:08:08,900

similar to Darwinian evolution of

128

00:08:15,700 --> 00:08:12,889

biological forms and in doing so they

129

00:08:21,010 --> 00:08:15,710

form systems and if they do so they

130

00:08:22,740 --> 00:08:21,020

survive better they do better and there

131

00:08:25,970 --> 00:08:22,750

are some of them that

132

00:08:30,030 --> 00:08:25,980

become so successful that they in effect

133

00:08:33,209 --> 00:08:30,040

appears to be parasitic on their hosts

134

00:08:36,270 --> 00:08:33,219

and we are their hosts the mimetic

135

00:08:39,779 --> 00:08:36,280

organism is an in that for example an

136

00:08:43,350 --> 00:08:39,789

ideology that convinces you to give up

137

00:08:45,780 --> 00:08:43,360

your life or give up your family or give

138

00:08:50,040 --> 00:08:45,790

up something really precious give up

139

00:08:54,830 --> 00:08:50,050

your soul it operates like an organism

140

00:09:01,080 --> 00:08:54,840

that seeks to flourish and its hosts

141

00:09:04,380 --> 00:09:01,090

expense and it has a life cycle it

142

00:09:07,430 --> 00:09:04,390

starts you know at the end at the bottom

143

00:09:10,800 --> 00:09:07,440

here we call it a cult or a movement

144

00:09:12,990 --> 00:09:10,810

right now we have the trunk cult for me

145

00:09:19,080 --> 00:09:13,000

you know we're so blessed to serve you

146

00:09:21,660 --> 00:09:19,090

master then if it if it prospers if it

147

00:09:24,300 --> 00:09:21,670

defends itself if it continues to

148

00:09:30,390 --> 00:09:24,310

strengthen if it chokes off its rivals

149

00:09:32,540 --> 00:09:30,400

it becomes an ideology or a religion or

150

00:09:38,480 --> 00:09:32,550

even a way of life

151

00:09:43,410 --> 00:09:38,490

and finally if it becomes completely

152

00:09:51,920 --> 00:09:43,420

dominant we call it just the way things

153

00:09:56,670 --> 00:09:51,930

are it becomes invisible it disappears

154

00:10:00,180 --> 00:09:56,680

what was the what was the belief system

155

00:10:06,720 --> 00:10:00,190

of the German people during the height

156

00:10:11,670 --> 00:10:06,730

of Nazi glory the way things are what

157

00:10:15,230 --> 00:10:11,680

was what was the ruling dominant

158

00:10:21,660 --> 00:10:15,240

paradigm to medieval village in Europe

159

00:10:23,739 --> 00:10:21,670

it was just the way things are if we

160

00:10:28,970 --> 00:10:23,749

discover new

161

00:10:32,749 --> 00:10:28,980

indigenous tribe what will we find they

162

00:10:35,269 --> 00:10:32,759

don't have a religion it's just the way

163

00:10:39,319 --> 00:10:35,279

things are the world is filled with

164

00:10:45,100 --> 00:10:39,329

spirits and taboo whatever that's just

165

00:10:47,389 --> 00:10:45,110

the way things are if that's the case

166

00:10:52,519 --> 00:10:47,399

could that apply to us

167

00:10:56,329 --> 00:10:52,529

could we be living under such a system

168

00:11:02,960 --> 00:10:56,339

such a memetic organism parasitic to

169

00:11:08,900 --> 00:11:02,970

humanity if it were true how would we

170

00:11:11,150 --> 00:11:08,910

know we could know because we would be

171

00:11:16,579 --> 00:11:11,160

able to spot a collection of related

172

00:11:19,429 --> 00:11:16,589

memes that's aggressively defended even

173

00:11:21,859 --> 00:11:19,439

though those dreams have no solid ground

174

00:11:25,400 --> 00:11:21,869

they're not warranted they're

175

00:11:29,749 --> 00:11:25,410

unacknowledged presuppositions accepted

176

00:11:33,739 --> 00:11:29,759

as truth secondly they would have

177

00:11:38,710 --> 00:11:33,749

defenders that aggressively defend their

178

00:11:42,590 --> 00:11:38,720

right to control what we think and

179

00:11:46,989 --> 00:11:42,600

number three one or two of those related

180

00:11:50,720 --> 00:11:46,999

memes which seems peripheral and

181

00:11:53,869 --> 00:11:50,730

insignificant but are actually essential

182

00:12:00,489 --> 00:11:53,879

to the entire system and what could they

183

00:12:03,889 --> 00:12:00,499

be those essential memes invalidate any

184

00:12:07,460 --> 00:12:03,899

possible ideological competitor so

185

00:12:11,809 --> 00:12:07,470

before the game even starts the regnant

186

00:12:15,189 --> 00:12:11,819

system has ruled out competition just

187

00:12:21,079 --> 00:12:15,199

the way a very successful biological

188

00:12:25,309 --> 00:12:21,089

entity might be able to do so three

189

00:12:29,119 --> 00:12:25,319

seemingly insignificant memes determined

190

00:12:31,500 --> 00:12:29,129

just the way things are number one the

191

00:12:36,000 --> 00:12:31,510

physical is mostly real

192

00:12:39,500 --> 00:12:36,010

that's sorry just the way things up the

193

00:12:45,030 --> 00:12:39,510

non-physical is in the category of

194

00:12:47,670 --> 00:12:45,040

imagination creativity any limit on

195

00:12:51,420 --> 00:12:47,680

science and technology is intolerable

196

00:12:54,660 --> 00:12:51,430

in fact it threatens our very human

197

00:12:59,009 --> 00:12:54,670

nature which is to pursue the limitless

198

00:13:01,530 --> 00:12:59,019

without without reservation to conquer

199

00:13:04,189 --> 00:13:01,540

the physical universe and number three

200

00:13:09,240 --> 00:13:04,199

the most peripheral the most to the side

201

00:13:12,329 --> 00:13:09,250

coincidence is meaningless right it's

202

00:13:14,579 --> 00:13:12,339

just a coincidence you know I don't care

203

00:13:17,420 --> 00:13:14,589

how many times you show me the anomaly

204

00:13:20,449 --> 00:13:17,430

the remote viewing three hundred times

205

00:13:26,120 --> 00:13:20,459

doesn't matter it's just a coincidence

206

00:13:30,410 --> 00:13:26,130

the odds 30 billion to one synchronicity

207

00:13:42,960 --> 00:13:30,420

three pairs in a row in that context

208

00:13:47,240 --> 00:13:42,970

mystical in sense what is coincidence

209

00:13:50,280 --> 00:13:47,250

it's random and in this belief system

210

00:13:55,309 --> 00:13:50,290

that means it's me because meaning

211

00:14:00,720 --> 00:13:55,319

cannot originate from randomness why

212

00:14:02,280 --> 00:14:00,730

it's just the way things are why would

213

00:14:04,319 --> 00:14:02,290

you want to study why would any of us

214

00:14:10,410 --> 00:14:04,329

want to study things that are inherently

215

00:14:13,110 --> 00:14:10,420

meaningless superstitious and yet there

216

00:14:15,150 --> 00:14:13,120

is nothing within science that

217

00:14:18,480 --> 00:14:15,160

determines that coincidence must be

218

00:14:21,840 --> 00:14:18,490

meaningless that order cannot emerge

219

00:14:23,600 --> 00:14:21,850

from randomness from picking up three

220

00:14:28,889 --> 00:14:23,610

pairs in a row when you're talking about

221

00:14:35,490 --> 00:14:28,899

the parents that's it that is a matter

222

00:14:36,820 --> 00:14:35,500

of faith now there are in my view three

223

00:14:40,329 --> 00:14:36,830

causative States

224

00:14:44,340 --> 00:14:40,339

there's determinism there's

225

00:14:48,579 --> 00:14:44,350

intentionality and there's randomness

226

00:14:52,360 --> 00:14:48,589

which is neither one its unfriend

227

00:14:54,069 --> 00:14:52,370

earnest is unpredictable on an instance

228

00:14:56,170 --> 00:14:54,079

by instance basis when you throw that

229

00:15:00,340 --> 00:14:56,180

coin you don't know what it's gonna do

230

00:15:04,690 --> 00:15:00,350

the next time and yet over time we have

231

00:15:06,460 --> 00:15:04,700

faith that it will average out if I toss

232

00:15:10,449 --> 00:15:06,470

the coin a million times and it comes up

233

00:15:12,730 --> 00:15:10,459

heads all right that's not an anomaly

234

00:15:17,860 --> 00:15:12,740

just keep tossing until it comes up

235

00:15:21,870 --> 00:15:17,870

50/50 then you can stop that means that

236

00:15:25,389 --> 00:15:21,880

the only source of meaning is in tension

237

00:15:30,340 --> 00:15:25,399

and we are the only source of meaningful

238

00:15:33,190 --> 00:15:30,350

intention therefore only we create

239

00:15:36,329 --> 00:15:33,200

meaning there is no larger source

240

00:15:42,819 --> 00:15:36,339

greater source there's no underlying

241

00:15:46,000 --> 00:15:42,829

field it's it's it's us thus the

242

00:15:49,420 --> 00:15:46,010

paradigm establishes humans in the place

243

00:15:52,750 --> 00:15:49,430

of God's the sole creators of meaning

244

00:15:55,840 --> 00:15:52,760

the sole creators of truth itself this

245

00:15:58,690 --> 00:15:55,850

is the payoff from the regnant paradigm

246

00:16:02,440 --> 00:15:58,700

this is what it delivers to you you are

247

00:16:07,960 --> 00:16:02,450

it you may be the cancer of this planet

248

00:16:11,740 --> 00:16:07,970

but you're the crown of creation to be

249

00:16:13,180 --> 00:16:11,750

as gods when did we start wanting to do

250

00:16:20,680 --> 00:16:13,190

that I'll tell you where it first

251  
00:16:24,240 --> 00:16:20,690  
appears Genesis 1 to be as gods that's

252  
00:16:29,199 --> 00:16:24,250  
the carrot the stick is what we feel

253  
00:16:33,970 --> 00:16:29,209  
when we apply for grants or recognition

254  
00:16:37,000 --> 00:16:33,980  
or plausibility I suppose even these

255  
00:16:40,030 --> 00:16:37,010  
windows up here if you see over there

256  
00:16:44,579 --> 00:16:40,040  
the man pointing he's identified as

257  
00:16:46,650 --> 00:16:44,589  
science he's pointing to

258  
00:16:51,389 --> 00:16:46,660  
some sort of imperfection in her

259  
00:16:54,720 --> 00:16:51,399  
argument she on the other hand is is us

260  
00:17:00,780 --> 00:16:54,730  
reaching out for acceptance for grant

261  
00:17:04,049 --> 00:17:00,790  
funding and this woman over here is

262  
00:17:05,819 --> 00:17:04,059  
straining to hear the announcements this

263  
00:17:13,829 --> 00:17:05,829

is low by the way Louis Comfort Tiffany

264

00:17:19,230 --> 00:17:13,839

thank you well that's the payoff so let

265

00:17:21,390 --> 00:17:19,240

me summarize by saying in metaphor not

266

00:17:23,699 --> 00:17:21,400

in not I'm not saying literally there's

267

00:17:26,220 --> 00:17:23,709

a secret monster running our lives it's

268

00:17:30,360 --> 00:17:26,230

an alien force it's a metaphor

269

00:17:32,610 --> 00:17:30,370

I think this planet has been taken over

270

00:17:35,549 --> 00:17:32,620

by a nonhuman parasite for which

271

00:17:38,430 --> 00:17:35,559

humanity is the host and the agent and

272

00:17:43,890 --> 00:17:38,440

we call it the regnant paradigm that's

273

00:17:47,419 --> 00:17:43,900

what we're up against around this Idol

274

00:17:50,310 --> 00:17:47,429

or arrayed aggressions and defenses

275

00:17:53,940 --> 00:17:50,320

because it's competing successfully to

276

00:18:01,440 --> 00:17:53,950

maintain its exclusive dominance of our

277

00:18:05,310 --> 00:18:01,450

mind base just the way things are this

278

00:18:09,630 --> 00:18:05,320

metaphorical entity is in the process as

279

00:18:15,570 --> 00:18:09,640

I speak of sacrificing the entire

280

00:18:20,760 --> 00:18:15,580

biosphere to its altar in exchange for a

281

00:18:23,820 --> 00:18:20,770

promise to be as gods any possible

282

00:18:29,070 --> 00:18:23,830

challenge is neutralized in advance as

283

00:18:32,190 --> 00:18:29,080

just meaningless going therefore I call

284

00:18:38,100 --> 00:18:32,200

it the cult of the meaningless qohen

285

00:18:40,440 --> 00:18:38,110

sense the secret hidden invisible only

286

00:18:43,080 --> 00:18:40,450

the emergence and detection of meaning

287

00:18:49,710 --> 00:18:43,090

from randomness and break the spell and

288

00:18:53,610 --> 00:18:49,720

break the tree so what we do is we

289

00:18:54,670 --> 00:18:53,620

encounter anomalies which are in the

290

00:19:01,470 --> 00:18:54,680

nature

291

00:19:04,810 --> 00:19:01,480

of twinning and throughout the ages

292

00:19:07,000 --> 00:19:04,820

those coincidences have been what

293

00:19:10,060 --> 00:19:07,010

warrants belief systems

294

00:19:14,230 --> 00:19:10,070

what warrants religions what warrants

295

00:19:21,580 --> 00:19:14,240

ways of life are those anomalies those

296

00:19:26,310 --> 00:19:21,590

coins we maintain that coincidence can

297

00:19:33,240 --> 00:19:26,320

be a source of meaning we maintain that

298

00:19:33,250 --> 00:19:44,220

thank you very much

299

00:19:53,030 --> 00:19:48,299

I see a certain problem with this

300

00:19:58,070 --> 00:19:53,040

objection to meaninglessness because I

301  
00:20:01,799 --> 00:19:58,080  
would argue that the the notion of

302  
00:20:03,570 --> 00:20:01,809  
meaningless events was is actually one

303  
00:20:07,710 --> 00:20:03,580  
of the most important scientific

304  
00:20:11,360 --> 00:20:07,720  
philosophical and moral advances of the

305  
00:20:13,530 --> 00:20:11,370  
last four hundred years that in

306  
00:20:15,030 --> 00:20:13,540  
traditional cultures and this is not

307  
00:20:19,140 --> 00:20:15,040  
just characteristic of Western history

308  
00:20:22,650 --> 00:20:19,150  
but all over the world when people are

309  
00:20:25,799 --> 00:20:22,660  
convinced that everything happens for a

310  
00:20:28,409 --> 00:20:25,809  
reason whatever anything bad happens

311  
00:20:31,260 --> 00:20:28,419  
they start looking for who made it

312  
00:20:34,289 --> 00:20:31,270  
happen oh my uncle got sick well where's

313  
00:20:35,760 --> 00:20:34,299

the witch who cursed him that I mean

314

00:20:39,539 --> 00:20:35,770

we're we're we're familiar with that

315

00:20:43,110 --> 00:20:39,549

from the 1600s in Europe but it is

316

00:20:47,810 --> 00:20:43,120

characteristic of cultures all over the

317

00:20:50,669 --> 00:20:47,820

world and I think that the notion that

318

00:20:52,950 --> 00:20:50,679

started to arise during the

319

00:20:55,860 --> 00:20:52,960

Enlightenment but only really took hold

320

00:20:59,100 --> 00:20:55,870

with the discovery of quantum mechanics

321

00:21:02,070 --> 00:20:59,110

in the 20th century that there are

322

00:21:06,720 --> 00:21:02,080

events that have no causes and happen

323

00:21:11,070 --> 00:21:06,730

for no reason is is an important

324

00:21:13,560 --> 00:21:11,080

cultural antidote to this urge to blame

325

00:21:19,470 --> 00:21:13,570

specific other people for anything bad

326

00:21:23,990 --> 00:21:19,480

that happens thank you of course

327

00:21:28,470 --> 00:21:24,000

randomness is an absolute necessity to

328

00:21:35,130 --> 00:21:28,480

double-blind you know to to Orthodox

329

00:21:40,409 --> 00:21:35,140

research it depends on random survey

330

00:21:43,220 --> 00:21:40,419

participants random polling the

331

00:21:46,740 --> 00:21:43,230

double-blind process is about randomness

332

00:21:48,570 --> 00:21:46,750

so the funny thing is that we that

333

00:21:50,760 --> 00:21:48,580

that's where the meaning comes from if

334

00:21:52,409 --> 00:21:50,770

you remove the randomness from a

335

00:21:56,399 --> 00:21:52,419

double-blind experiment

336

00:21:58,109 --> 00:21:56,409

you lose the double blinds so so it's

337

00:22:00,840 --> 00:21:58,119

it's a very it's a weird you know

338

00:22:02,749 --> 00:22:00,850

randomness is weird and so on the one

339

00:22:05,629 --> 00:22:02,759

hand I agree with you on another hand

340

00:22:11,639 --> 00:22:05,639

science itself is saying it's meaningful

341

00:22:13,859 --> 00:22:11,649

in that way it's necessary I'm not sure

342

00:22:15,509 --> 00:22:13,869

exactly why we thought Hillary Clinton

343

00:22:18,029 --> 00:22:15,519

was going to win the presidency given

344

00:22:19,950 --> 00:22:18,039

the power of randomness but it failed us

345

00:22:30,900 --> 00:22:19,960

but anyway thank you for that

346

00:22:35,550 --> 00:22:33,210

I'm George chance James you've done a

347

00:22:38,460 --> 00:22:35,560

nice job of anticipating some of the

348

00:22:39,600 --> 00:22:38,470

things I'm gonna say on Saturday thank

349

00:22:43,800 --> 00:22:39,610

you very much

350

00:22:48,480 --> 00:22:43,810

and I wanted to ask you about okay we've

351

00:22:50,370 --> 00:22:48,490

got this monster this cult and I want to

352

00:22:54,630 --> 00:22:50,380

see if maybe there's an Achilles heel

353

00:22:58,110 --> 00:22:54,640

and whether the Achilles heel is science

354

00:22:59,460 --> 00:22:58,120

itself and it has to do with the idea of

355

00:23:02,220 --> 00:22:59,470

when you sort of talked about the

356

00:23:06,180 --> 00:23:02,230

principles of science one of the things

357

00:23:09,590 --> 00:23:06,190

I didn't quite see there is you know

358

00:23:12,570 --> 00:23:09,600

science is trying to figure out what

359

00:23:15,690 --> 00:23:12,580

nature is telling us you know what the

360

00:23:17,760 --> 00:23:15,700

world is telling us so yeah there are

361

00:23:20,760 --> 00:23:17,770

paradigms that we impose and you know

362

00:23:22,830 --> 00:23:20,770

there's the kuhn idea of the paradigms

363

00:23:25,080 --> 00:23:22,840

and all that stuff but but we're

364

00:23:30,510 --> 00:23:25,090

actually here a scientist to see what is

365

00:23:33,600 --> 00:23:30,520

nature really telling us and if you look

366

00:23:36,330 --> 00:23:33,610

at the fragmentation that's taking place

367

00:23:43,080 --> 00:23:36,340

in the frontiers of science the

368

00:23:45,540 --> 00:23:43,090

anomalies that are all over that it

369

00:23:48,540 --> 00:23:45,550

almost seemed like maybe if science

370

00:23:52,800 --> 00:23:48,550

actually continues to pursue the

371

00:23:57,480 --> 00:23:52,810

frontiers and those anomalies that the

372

00:23:59,730 --> 00:23:57,490

cult will end up being destroyed from

373

00:24:02,670 --> 00:23:59,740

within so I wanted to ask whether you

374

00:24:04,920 --> 00:24:02,680

think that might be well Barbara was

375

00:24:10,380 --> 00:24:04,930

somewhat pessimistic about that after

376

00:24:14,160 --> 00:24:10,390

six decades I think basically what I

377

00:24:17,490 --> 00:24:14,170

wanted to say is that this isn't just

378

00:24:20,370 --> 00:24:17,500

some set of policies or administrators

379

00:24:23,910 --> 00:24:20,380

that we're up against this is something

380

00:24:28,140 --> 00:24:23,920

really really deep in the culture that's

381

00:24:29,210 --> 00:24:28,150

taken things over and I think that I

382

00:24:32,000 --> 00:24:29,220

think

383

00:24:35,760 --> 00:24:32,010

you cited Coonan that's good too because

384

00:24:41,279 --> 00:24:35,770

it is possible that there will be a new

385

00:24:43,919 --> 00:24:41,289

openness as generation faces these

386

00:24:46,380 --> 00:24:43,929

problems and seeks answers in new and

387

00:24:53,279 --> 00:24:46,390

different places and seeks the roots of

388

00:24:59,120 --> 00:24:53,289

the situation we're sailing into so when

389

00:24:59,130 --> 00:25:05,510

enterprise you represented it in a limit

390

00:25:12,720 --> 00:25:09,930

in in a linear fashion that started out

391

00:25:15,320 --> 00:25:12,730

with the humanities or whatever and went

392

00:25:18,810 --> 00:25:15,330

over to the the queen of the sciences

393

00:25:21,659 --> 00:25:18,820

mathematics I just want to point out

394

00:25:24,930 --> 00:25:21,669

that maybe if we drew that as cyclical

395

00:25:26,700 --> 00:25:24,940

we would realize that mathematics itself

396

00:25:31,159 --> 00:25:26,710

is pure consciousness

397

00:25:34,440 --> 00:25:31,169

there ain't no numbers out there it's a

398

00:25:35,840 --> 00:25:34,450

it's a cognitive thing I'm not putting

399

00:25:38,750 --> 00:25:35,850

it down it's beautiful it's wonderful

400

00:25:42,029 --> 00:25:38,760

but it is a mental creation and

401  
00:25:44,700 --> 00:25:42,039  
therefore it should be at the beginning

402  
00:25:52,649 --> 00:25:44,710  
of that line rather than the end or as

403  
00:26:02,070 --> 00:25:57,279  
in 2010 we had a conference here we have

404  
00:26:04,480 --> 00:26:02,080  
we brought in 80 of the top supposedly

405  
00:26:07,570 --> 00:26:04,490  
theologians philosophers and

406  
00:26:14,460 --> 00:26:07,580  
cosmologists to debate why is there

407  
00:26:17,529 --> 00:26:14,470  
anything we got a grant for that and

408  
00:26:21,159 --> 00:26:17,539  
there was only one thing that everybody

409  
00:26:25,799 --> 00:26:21,169  
agreed on and that is that mathematics

410  
00:26:29,680 --> 00:26:25,809  
is a cognitive system but it Maps

411  
00:26:32,980 --> 00:26:29,690  
something that is platonic in the plate

412  
00:26:35,009 --> 00:26:32,990  
ina realm so I think that that your

413  
00:26:38,080 --> 00:26:35,019

point is very valid though that

414

00:26:41,289 --> 00:26:38,090

mathematics is considered yeah you know

415

00:26:44,110 --> 00:26:41,299

hard hard beyond hard science and yet

416

00:26:46,870 --> 00:26:44,120

it's completely metaphysical so I agree

417

00:26:47,670 --> 00:26:46,880

with your idea of the circle thank you