



Society for Scientific Exploration

1
00:00:03,300 --> 00:00:08,680

[Music]

2
00:00:14,299 --> 00:00:11,360

well the scientific method teaches us

3
00:00:16,129 --> 00:00:14,309

that we first make some experimental

4
00:00:19,370 --> 00:00:16,139

observations and then we tell others

5
00:00:23,689 --> 00:00:19,380

about it and it's then important that

6
00:00:26,980 --> 00:00:23,699

other people repeat what we have done to

7
00:00:29,089 --> 00:00:26,990

verify the validity of the observations

8
00:00:34,180 --> 00:00:29,099

and I'd like to say that I'm fortunate

9
00:00:36,590 --> 00:00:34,190

to have a loose collaboration with dr.

10
00:00:41,090 --> 00:00:36,600

Joshua Lieberman at the University of

11
00:00:43,340 --> 00:00:41,100

Maryland School of Medicine and for

12
00:00:48,020 --> 00:00:43,350

several years we've been exchanging some

13
00:00:49,639 --> 00:00:48,030

data and I'd like to say that the

14

00:00:54,369 --> 00:00:49,649

phenomena that I'm going to talk about

15

00:00:57,470 --> 00:00:54,379

have been replicated in dr. Lieberman's

16

00:01:01,400 --> 00:00:57,480

laboratory and he finds the same kinds

17

00:01:05,270 --> 00:01:01,410

of things that I find so with that I'd

18

00:01:14,649 --> 00:01:05,280

like to proceed to describe what we've

19

00:01:22,899 --> 00:01:20,039

okay viral fields and bioenergy

20

00:01:25,389 --> 00:01:22,909

bioenergy fields have been asserted to

21

00:01:28,450 --> 00:01:25,399

exist for thousands of years and the

22

00:01:30,090 --> 00:01:28,460

basis of many activities today with

23

00:01:36,210 --> 00:01:30,100

energy healing and so on

24

00:01:38,620 --> 00:01:36,220

however scientific scientists effects to

25

00:01:41,350 --> 00:01:38,630

attempts to actually detect and measure

26
00:01:43,779 --> 00:01:41,360
these battlefields have generally failed

27
00:01:46,600 --> 00:01:43,789
at least to the extent that bio fields

28
00:01:50,139 --> 00:01:46,610
are not accepted in the mainstream

29
00:01:52,120 --> 00:01:50,149
science this creates a problem because

30
00:01:53,559 --> 00:01:52,130
anything that you can't detect and

31
00:01:57,809 --> 00:01:53,569
measure cannot be subjected to

32
00:02:01,179 --> 00:01:57,819
scientific study I would say that the

33
00:02:07,179 --> 00:02:01,189
all the attempts that I'm aware of to

34
00:02:11,440 --> 00:02:07,189
detect bio energy fields they are pretty

35
00:02:13,990 --> 00:02:11,450
much universally photon detectors of one

36
00:02:16,180 --> 00:02:14,000
form or another but suppose by our

37
00:02:18,849 --> 00:02:16,190
energy fields don't actually consist of

38
00:02:22,569 --> 00:02:18,859

photons then these detectors would be

39

00:02:25,120 --> 00:02:22,579

useless so in this work the proposition

40

00:02:28,330 --> 00:02:25,130

is that bio fields did not actually

41

00:02:30,849 --> 00:02:28,340

consist of photons but instead consist

42

00:02:32,860 --> 00:02:30,859

of some form of energy that actually

43

00:02:35,920 --> 00:02:32,870

exists the physical force of some kind

44

00:02:41,920 --> 00:02:35,930

that is it can push against the physical

45

00:02:45,150 --> 00:02:41,930

object to alter its momentum if you're

46

00:02:47,410 --> 00:02:45,160

going to detect a force like this it's

47

00:02:50,050 --> 00:02:47,420

presumably it's going to be a small

48

00:02:52,660 --> 00:02:50,060

force so we would need to have a

49

00:02:55,390 --> 00:02:52,670

detection and measuring device that's

50

00:02:58,840 --> 00:02:55,400

quite sensitive for this work where

51
00:03:01,809 --> 00:02:58,850
you're using torsion pendulum torsion

52
00:03:04,000 --> 00:03:01,819
pendulum another term for torsion

53
00:03:08,530 --> 00:03:04,010
pendulum is a torsion balance because it

54
00:03:11,710 --> 00:03:08,540
can be used to measure forces with

55
00:03:13,710 --> 00:03:11,720
exquisite accuracy now these types of

56
00:03:17,500 --> 00:03:13,720
balances have a long history in

57
00:03:19,809 --> 00:03:17,510
experimentation one of the most famous

58
00:03:22,360 --> 00:03:19,819
uses is Henry Cavendish who used a

59
00:03:24,490 --> 00:03:22,370
torsion pendulum to determine the

60
00:03:27,760 --> 00:03:24,500
gravitational constant and even though

61
00:03:29,710 --> 00:03:27,770
he did this hundreds of years ago

62
00:03:32,380 --> 00:03:29,720
the value he came up with is within a

63
00:03:36,280 --> 00:03:32,390

few percentage points of what's known

64

00:03:39,490 --> 00:03:36,290

today this is a cartoon of the set up

65

00:03:42,460 --> 00:03:39,500

I'd like to say that it it's it's an

66

00:03:45,220 --> 00:03:42,470

utterly simple set up that pendulum is

67

00:03:48,070 --> 00:03:45,230

is as simple as you can possibly imagine

68

00:03:51,100 --> 00:03:48,080

here is a subject seeing it under the

69

00:03:57,640 --> 00:03:51,110

pendulum the pendulum Excel itself

70

00:03:59,590 --> 00:03:57,650

consists of a of a hemispherical energy

71

00:04:03,250 --> 00:03:59,600

of receptor I'll show a picture of it in

72

00:04:06,160 --> 00:04:03,260

a moment and this is suspended from a

73

00:04:09,550 --> 00:04:06,170

support beam by a very short length of

74

00:04:11,380 --> 00:04:09,560

nylon monofilament most of the

75

00:04:14,290 --> 00:04:11,390

experiments it's about one point seven

76
00:04:16,900 --> 00:04:14,300
centimeters long and the filaments about

77
00:04:20,289 --> 00:04:16,910
point 0.7 millimeters diameter it's a

78
00:04:24,760 --> 00:04:20,299
it's a standard monofilament fishing

79
00:04:27,910 --> 00:04:24,770
line the motions of the pendulum are

80
00:04:29,680 --> 00:04:27,920
recorded by a video camera and you know

81
00:04:32,080 --> 00:04:29,690
what to emphasize that when we're

82
00:04:33,160 --> 00:04:32,090
talking about a portion pendulum it's a

83
00:04:35,950 --> 00:04:33,170
twisting motion

84
00:04:38,320 --> 00:04:35,960
you know twisting to the right on the

85
00:04:42,010 --> 00:04:38,330
left it's not a swinging motion back and

86
00:04:45,480 --> 00:04:42,020
forth but twisting back and forth so the

87
00:04:49,210 --> 00:04:45,490
video camera is observing these motions

88
00:04:51,340 --> 00:04:49,220

here is a picture of the hemispherical

89

00:04:54,250 --> 00:04:51,350

energy collector it's actually something

90

00:04:56,940 --> 00:04:54,260

I picked up at the hardware store it's a

91

00:04:59,410 --> 00:04:56,950

food gutter that's intended purposes to

92

00:05:01,900 --> 00:04:59,420

put over a plate of sandwiches and a

93

00:05:05,920 --> 00:05:01,910

picnic table to keep bugs off we're

94

00:05:08,590 --> 00:05:05,930

talking low-tech here that cost about

95

00:05:10,930 --> 00:05:08,600

five dollars and and the dialogue

96

00:05:13,810 --> 00:05:10,940

filament a fraction of a cent now to

97

00:05:17,050 --> 00:05:13,820

detect the motion of the pendulum I have

98

00:05:20,200 --> 00:05:17,060

attached the target and it's a it's a

99

00:05:23,409 --> 00:05:20,210

piece of black paper with a one

100

00:05:26,170 --> 00:05:23,419

centimeter white dot placed on it so as

101
00:05:29,250 --> 00:05:26,180
the as the pendulum moves this white dot

102
00:05:32,530 --> 00:05:29,260
swings to the right and to the left and

103
00:05:37,930 --> 00:05:32,540
the video camera is recording these

104
00:05:40,690 --> 00:05:37,940
motions this is a screenshot of an

105
00:05:41,500 --> 00:05:40,700
experiment that's actually in progress

106
00:05:43,270 --> 00:05:41,510
this is a

107
00:05:47,140 --> 00:05:43,280
baseline experiment there's no subject

108
00:05:49,810 --> 00:05:47,150
sitting under it and it's it's captured

109
00:05:53,200 --> 00:05:49,820
the the white dot at this particular

110
00:05:56,520 --> 00:05:53,210
position you may be able to distinguish

111
00:05:59,260 --> 00:05:56,530
a red circle in the Met in the center

112
00:06:00,970 --> 00:05:59,270
the computer program computes the

113
00:06:03,580 --> 00:06:00,980

position of the very center of the dot

114

00:06:06,730 --> 00:06:03,590

and draws a little red circle around it

115

00:06:08,410 --> 00:06:06,740

so you can convince yourself that it's

116

00:06:12,520 --> 00:06:08,420

actually looking at the center of the

117

00:06:15,280 --> 00:06:12,530

dot and as this goes back and forth its

118

00:06:19,750 --> 00:06:15,290

motions are recorded on this chart in

119

00:06:23,200 --> 00:06:19,760

which as it goes upward we're getting a

120

00:06:25,300 --> 00:06:23,210

clockwise direction of motion is because

121

00:06:29,260 --> 00:06:25,310

it's going downward we're getting a

122

00:06:35,620 --> 00:06:29,270

counterclockwise direction of motion now

123

00:06:38,590 --> 00:06:35,630

this video screen is is something that I

124

00:06:44,920 --> 00:06:38,600

brew teen Lee during an experiment the

125

00:06:47,920 --> 00:06:44,930

the subject will look at it so that just

126

00:06:53,380 --> 00:06:47,930

so you know that that's what's what's

127

00:06:57,070 --> 00:06:53,390

being done now this is a very simple

128

00:06:59,460 --> 00:06:57,080

pendulum device does it behave in a

129

00:07:03,610 --> 00:06:59,470

classical fashion this shows that it

130

00:07:07,270 --> 00:07:03,620

behaves too near perfection as a classic

131

00:07:08,860 --> 00:07:07,280

pendulum now this is oscillating back

132

00:07:12,190 --> 00:07:08,870

and forth in the air so there's a

133

00:07:15,250 --> 00:07:12,200

substantial damping coefficient so if

134

00:07:18,010 --> 00:07:15,260

you set the pendulum in motion with the

135

00:07:20,410 --> 00:07:18,020

puff of air it fairly quickly damps down

136

00:07:25,090 --> 00:07:20,420

that takes about five or six minutes to

137

00:07:26,850 --> 00:07:25,100

damp extensively now if you look closely

138

00:07:32,320 --> 00:07:26,860

you'll see that there are two curves

139

00:07:34,930 --> 00:07:32,330

there's a data curve this program is

140

00:07:38,140 --> 00:07:34,940

collecting data at ten points per second

141

00:07:40,300 --> 00:07:38,150

so we get a very high resolution of the

142

00:07:42,760 --> 00:07:40,310

position of the white dot as it moves

143

00:07:45,210 --> 00:07:42,770

back and forth so these are the data

144

00:07:47,530 --> 00:07:45,220

points and this is the theoretical curve

145

00:07:50,200 --> 00:07:47,540

plotted according to the classic

146

00:07:53,410 --> 00:07:50,210

equation for a damn simple heart simple

147

00:07:54,940 --> 00:07:53,420

harmonic harmonic oscillator and you can

148

00:07:59,530 --> 00:07:54,950

see that the data curve in the

149

00:08:06,820 --> 00:07:59,540

theoretical curve overlap to a very

150

00:08:09,700 --> 00:08:06,830

pleasing extent now the we makes

151

00:08:12,280 --> 00:08:09,710

extensive use of Fourier analysis

152

00:08:15,340 --> 00:08:12,290

because it turns out that the the

153

00:08:17,950 --> 00:08:15,350

frequencies of the oscillation of the

154

00:08:20,620 --> 00:08:17,960

pendulum are very important so we use

155

00:08:22,840 --> 00:08:20,630

fast Fourier transform analysis to

156

00:08:26,170 --> 00:08:22,850

determine the frequency of the pendulum

157

00:08:28,510 --> 00:08:26,180

well a pendulum without a subject is

158

00:08:33,010 --> 00:08:28,520

should have a single frequency which it

159

00:08:35,890 --> 00:08:33,020

does and the pendulum is 0.03 4 Hertz

160

00:08:38,650 --> 00:08:35,900

which has a period of about 30 seconds

161

00:08:43,620 --> 00:08:38,660

and so this is pretty much the pendulum

162

00:08:48,060 --> 00:08:43,630

that we use I said that it it's a

163

00:08:51,310 --> 00:08:48,070

torsion balance we can calibrate the

164

00:08:53,770 --> 00:08:51,320

torsion constant of the nylon filament

165

00:08:56,650 --> 00:08:53,780

that's supporting the pendulum this is

166

00:08:58,900 --> 00:08:56,660

done by placing different masses on the

167

00:09:03,040 --> 00:08:58,910

pendulum and observing the effects of of

168

00:09:08,680 --> 00:09:03,050

the of the frequency of oscillation the

169

00:09:12,370 --> 00:09:08,690

slope of this curve gives the the

170

00:09:16,450 --> 00:09:12,380

torsion constant which is 2249

171

00:09:19,210 --> 00:09:16,460

centimeters per Radian using appropriate

172

00:09:21,820 --> 00:09:19,220

conversion factors you can you can

173

00:09:23,910 --> 00:09:21,830

interpret this as is meaning that it

174

00:09:27,970 --> 00:09:23,920

takes about four point six milligrams

175

00:09:32,110 --> 00:09:27,980

the equivalent force to rotate the

176

00:09:34,440 --> 00:09:32,120

pendulum by one degree so any force any

177

00:09:38,760 --> 00:09:34,450

if we have any effects on the pendulum

178

00:09:42,700 --> 00:09:38,770

that caused the pendulum to to rotate

179

00:09:53,380 --> 00:09:42,710

then we can get a an accurate estimate

180

00:09:55,750 --> 00:09:53,390

of that so here is the an experiment now

181

00:09:58,630 --> 00:09:55,760

I have to say that as I've been doing

182

00:10:01,240 --> 00:09:58,640

these experiments I I'm continually

183

00:10:07,030 --> 00:10:01,250

astonished and amazed at the effects

184

00:10:14,949 --> 00:10:10,870

this I have to walk through this to kind

185

00:10:19,870 --> 00:10:14,959

of explain what this is this is subject

186

00:10:23,079 --> 00:10:19,880

1 and these segments segment one sec two

187

00:10:26,410 --> 00:10:23,089

sig three those are the periods of time

188

00:10:29,800 --> 00:10:26,420

that the subject is actually seated

189

00:10:33,100 --> 00:10:29,810

under the pendulum so we begin right

190

00:10:35,350 --> 00:10:33,110

here at the beginning and that's the

191

00:10:38,800 --> 00:10:35,360

pendulum is set in motion by a little

192

00:10:43,509 --> 00:10:38,810

puff of air and then I let it damp down

193

00:10:47,290 --> 00:10:43,519

and then when it gets fairly damp down

194

00:10:49,660 --> 00:10:47,300

the subject very carefully is seen you

195

00:10:53,740 --> 00:10:49,670

seated under the pendulum and then we

196

00:10:56,980 --> 00:10:53,750

collect the data these are the motions

197

00:10:58,840 --> 00:10:56,990

of the pendulum back and forth and then

198

00:11:00,519 --> 00:10:58,850

at the end of the segment the subject

199

00:11:03,189 --> 00:11:00,529

leaves and you see that it immediately

200

00:11:05,620 --> 00:11:03,199

tracks back toward the center line so

201
00:11:09,220 --> 00:11:05,630
this is what I call the the center of

202
00:11:11,110 --> 00:11:09,230
oscillation of the the natural center of

203
00:11:14,340 --> 00:11:11,120
oscillation is this black line across

204
00:11:17,829 --> 00:11:14,350
here and then after a period of time

205
00:11:21,699 --> 00:11:17,839
well these time points this is about 15

206
00:11:23,790 --> 00:11:21,709
minutes or 20 minutes various periods of

207
00:11:26,740 --> 00:11:23,800
time and maybe eight minutes in between

208
00:11:29,740 --> 00:11:26,750
before the subject is seated again and

209
00:11:31,809 --> 00:11:29,750
then here the subject leaves again and

210
00:11:34,629 --> 00:11:31,819
it rapidly goes back toward the center

211
00:11:39,100 --> 00:11:34,639
line subject to seated again and we see

212
00:11:42,430 --> 00:11:39,110
this so one of the most amazing things

213
00:11:44,889 --> 00:11:42,440

to me about these results is that when

214

00:11:47,439 --> 00:11:44,899

the subject is seated under the pendulum

215

00:11:49,840 --> 00:11:47,449

the pendulum actually starts oscillating

216

00:11:52,120 --> 00:11:49,850

around a completely different center of

217

00:11:55,809 --> 00:11:52,130

oscillation I mean this is like if

218

00:11:57,069 --> 00:11:55,819

you're watching a a pendulum clock like

219

00:11:59,410 --> 00:11:57,079

this and that's the center of

220

00:12:03,210 --> 00:11:59,420

oscillation all of a sudden it's going

221

00:12:07,269 --> 00:12:03,220

like that it's quite astonishing and

222

00:12:08,800 --> 00:12:07,279

it's not a small effect you know the you

223

00:12:10,780 --> 00:12:08,810

might think well this is a very small

224

00:12:14,920 --> 00:12:10,790

effect and it's highly magnified but

225

00:12:16,720 --> 00:12:14,930

it's not small because we have a torsion

226

00:12:20,400 --> 00:12:16,730

balance here

227

00:12:22,920 --> 00:12:20,410

here's a period of time in which this

228

00:12:26,189 --> 00:12:22,930

Black Lion is the center of oscillation

229

00:12:29,309 --> 00:12:26,199

of this range here and it would take a

230

00:12:33,889 --> 00:12:29,319

force that's equivalent to 34 milligrams

231

00:12:41,129 --> 00:12:33,899

to displace the pendulum by that amount

232

00:12:44,670 --> 00:12:41,139

so and the actual position of the

233

00:12:47,490 --> 00:12:44,680

displacement is 2.2 centimeters which is

234

00:12:50,540 --> 00:12:47,500

equivalent to seven point three degrees

235

00:12:56,030 --> 00:12:50,550

these are not not small values you know

236

00:13:00,929 --> 00:12:56,040

we don't need statistics to provide

237

00:13:04,379 --> 00:13:00,939

convincing evidence that this is a real

238

00:13:07,650 --> 00:13:04,389

effect this is segment two and just

239

00:13:10,439 --> 00:13:07,660

blowing this up so that you can really

240

00:13:13,439 --> 00:13:10,449

see the oscillations in more detail and

241

00:13:16,129 --> 00:13:13,449

you can see that the here the center of

242

00:13:25,550 --> 00:13:16,139

oscillation it's it's simply oscillating

243

00:13:29,699 --> 00:13:25,560

way off to the side now here is the

244

00:13:32,639 --> 00:13:29,709

Fourier analysis of segment two when the

245

00:13:35,639 --> 00:13:32,649

subject is seated under the pendulum you

246

00:13:37,379 --> 00:13:35,649

see that this is this is the frequency

247

00:13:41,550 --> 00:13:37,389

of the natural period of the pendulum

248

00:13:44,009 --> 00:13:41,560

and we see really dozens of new

249

00:13:49,579 --> 00:13:44,019

frequencies that are are introduced by

250

00:13:56,309 --> 00:13:54,090

now whereas each of these frequencies is

251
00:13:58,620 --> 00:13:56,319
simply detected during the period of

252
00:14:03,210 --> 00:13:58,630
time that the subject is under the

253
00:14:06,780 --> 00:14:03,220
pendulum using a feature of Fourier

254
00:14:09,689 --> 00:14:06,790
analysis you can do a bandpass and

255
00:14:11,999 --> 00:14:09,699
select out a particular frequency range

256
00:14:13,769 --> 00:14:12,009
and look at the dynamics of that

257
00:14:18,179 --> 00:14:13,779
frequency range throughout the

258
00:14:21,090 --> 00:14:18,189
experiment so this is the data curve

259
00:14:24,629 --> 00:14:21,100
that I had that we had in this earlier

260
00:14:28,769 --> 00:14:24,639
slide the segment to data and this is

261
00:14:31,040 --> 00:14:28,779
the last slide showing the Fourier a

262
00:14:33,600 --> 00:14:31,050
picture of all the frequencies and so

263
00:14:34,300 --> 00:14:33,610

I've identified various of these

264

00:14:37,650 --> 00:14:34,310

frequency

265

00:14:40,600 --> 00:14:37,660

and done a bandpass on those Peaks and

266

00:14:43,720 --> 00:14:40,610

piqué here you can see that the

267

00:14:46,389 --> 00:14:43,730

frequency here is not a constant

268

00:14:50,230 --> 00:14:46,399

intensity or amplitude it sort of has a

269

00:14:53,379 --> 00:14:50,240

beat to it it you can see it change and

270

00:14:56,579 --> 00:14:53,389

peak V does the same thing but with the

271

00:15:00,280 --> 00:14:56,589

different beat frequency and C has many

272

00:15:01,900 --> 00:15:00,290

beats in it and D very different and

273

00:15:05,799 --> 00:15:01,910

this is kind of interesting

274

00:15:08,710 --> 00:15:05,809

e is the actual natural frequency of the

275

00:15:11,230 --> 00:15:08,720

pendulum and it that isn't constant it's

276

00:15:14,199 --> 00:15:11,240

as if all of these other frequencies are

277

00:15:16,720 --> 00:15:14,209

actually overriding the natural tendency

278

00:15:26,710 --> 00:15:16,730

of the pendulum to oscillate at a

279

00:15:29,530 --> 00:15:26,720

particular frequency this is the

280

00:15:33,069 --> 00:15:29,540

frequency pattern of of the three

281

00:15:35,170 --> 00:15:33,079

segments so this is the same subject see

282

00:15:37,269 --> 00:15:35,180

these under the pendulum you know four

283

00:15:40,090 --> 00:15:37,279

segments one in segment two in segment

284

00:15:43,840 --> 00:15:40,100

three and you can see the frequency

285

00:15:47,019 --> 00:15:43,850

analysis is of each of those segments on

286

00:15:49,210 --> 00:15:47,029

the one hand one sees similarities but

287

00:15:52,900 --> 00:15:49,220

they're not identical by any means so

288

00:15:55,059 --> 00:15:52,910

that it shows that the effects are

289

00:15:59,619 --> 00:15:55,069

exerted on the pendulum by the subject

290

00:16:04,269 --> 00:15:59,629

the frequencies are in kind of a dynamic

291

00:16:06,970 --> 00:16:04,279

state and the actual effect on the

292

00:16:09,929 --> 00:16:06,980

pendulum is a consequence of all of

293

00:16:12,340 --> 00:16:09,939

these D frequencies undergoing

294

00:16:16,240 --> 00:16:12,350

constructive addition and and

295

00:16:19,509 --> 00:16:16,250

destruction so that accounts for the the

296

00:16:24,189 --> 00:16:19,519

constant flux of the appearance of the

297

00:16:27,460 --> 00:16:24,199

pendulum now without going back to that

298

00:16:31,119 --> 00:16:27,470

early the complete experiment one thing

299

00:16:33,730 --> 00:16:31,129

that is very striking is that when the

300

00:16:36,999 --> 00:16:33,740

subject left the pendulum after the

301

00:16:39,939 --> 00:16:37,009

third experiment there was a lot of

302

00:16:44,340 --> 00:16:39,949

activity or the pendulum after the

303

00:16:50,680 --> 00:16:47,139

well one of the principles that the

304

00:16:54,100 --> 00:16:50,690

physics of a pendulum is that if the

305

00:16:56,230 --> 00:16:54,110

pendulum is allowed to oscillate freely

306

00:17:01,389 --> 00:16:56,240

and then you disturb it with some

307

00:17:03,460 --> 00:17:01,399

outside influence then the pendulum will

308

00:17:06,910 --> 00:17:03,470

incorporate that and behave accordingly

309

00:17:16,960 --> 00:17:06,920

if you take that influence away how long

310

00:17:21,669 --> 00:17:16,970

is it before the pendulum recovers you

311

00:17:28,360 --> 00:17:21,679

can see that it takes quite a long time

312

00:17:32,169 --> 00:17:28,370

for the pendulum to recover this is this

313

00:17:39,880 --> 00:17:32,179

is the natural recovery of the pendulum

314

00:17:42,070 --> 00:17:39,890

and this is what what happens with well

315

00:17:52,950 --> 00:17:42,080

these these effects are retained for a

316

00:18:00,149 --> 00:17:55,710

this is the frequency pattern after the

317

00:18:02,370 --> 00:18:00,159

subject departs and you can see that the

318

00:18:08,460 --> 00:18:02,380

frequencies are not lost so the the

319

00:18:12,779 --> 00:18:08,470

frequency remains and this is taking out

320

00:18:14,789 --> 00:18:12,789

that large frequency in the and you can

321

00:18:19,169 --> 00:18:14,799

see that many other frequencies remain

322

00:18:22,440 --> 00:18:19,179

this is a subject to similar kinds of

323

00:18:25,649 --> 00:18:22,450

things happen this is a subject 3 so

324

00:18:28,889 --> 00:18:25,659

it's not unique to a particular subject

325

00:18:31,980 --> 00:18:28,899

this is a fourth subject in which all of

326

00:18:38,130 --> 00:18:31,990

these features are seen I won't don't

327

00:18:42,419 --> 00:18:38,140

have time to go through the details this

328

00:18:44,250 --> 00:18:42,429

is the subject frequencies when the

329

00:18:47,010 --> 00:18:44,260

present this is after the subject is

330

00:18:53,370 --> 00:18:47,020

left this is a control experiment which

331

00:18:57,990 --> 00:18:53,380

I won't go through alternate materials

332

00:19:05,039 --> 00:18:58,000

this is a Coco fiber transducer it has

333

00:19:08,010 --> 00:19:05,049

similar effects and so conclusions an

334

00:19:10,049 --> 00:19:08,020

energy field exists outside the human

335

00:19:13,169 --> 00:19:10,059

body that can be detected in quantity

336

00:19:20,220 --> 00:19:13,179

and quantified by its effects on these

337

00:19:21,960 --> 00:19:20,230

oscillations of a pendulum in order to

338

00:19:24,269 --> 00:19:21,970

displace the pendulum in this way it

339

00:19:27,750 --> 00:19:24,279

would seem that it would require some

340

00:19:32,460 --> 00:19:27,760

kind of spiral vortex in order to do

341

00:19:35,850 --> 00:19:32,470

this contains many frequency components

342

00:19:38,460 --> 00:19:35,860

the effects on the pendulum persist for

343

00:19:41,549 --> 00:19:38,470

30 to 60 minutes after the subject has

344

00:19:43,440 --> 00:19:41,559

left the pendulum and it occurs with

345

00:19:49,260 --> 00:19:43,450

pendulums constructed of either steel

346

00:19:52,860 --> 00:19:49,270

mesh or completely organic fiber some

347

00:20:00,610 --> 00:19:52,870

hypotheses I think we don't have time

348

00:20:04,880 --> 00:20:03,020

thank you very much

349

00:20:16,000 --> 00:20:04,890

that's extremely interesting and I

350

00:20:26,200 --> 00:20:19,960

thank you I found that to be extremely

351
00:20:28,810 --> 00:20:26,210
valuable experimentation and opens up to

352
00:20:33,370 --> 00:20:28,820
object to verification this whole idea

353
00:20:37,770 --> 00:20:33,380
about energy fields around the body I

354
00:20:45,690 --> 00:20:37,780
think it has great possibilities for

355
00:20:48,820 --> 00:20:45,700
diagnosis in medicine I agree and I

356
00:20:51,250 --> 00:20:48,830
again from what you presented that you

357
00:20:54,880 --> 00:20:51,260
haven't used this kind of thing with

358
00:20:57,820 --> 00:20:54,890
different patients well I don't have

359
00:21:00,030 --> 00:20:57,830
access to patients I have access to

360
00:21:02,650 --> 00:21:00,040
volunteer subjects which have been

361
00:21:04,750 --> 00:21:02,660
mainly friends and colleagues and I run

362
00:21:09,159 --> 00:21:04,760
into somebody one of them was one of my

363
00:21:15,430 --> 00:21:09,169

neighbors but about 20 subjects none of

364

00:21:16,659 --> 00:21:15,440

whom have any any pathological problems

365

00:21:19,600 --> 00:21:16,669

disease states

366

00:21:22,210 --> 00:21:19,610

you know just normal subjects but they

367

00:21:26,260 --> 00:21:22,220

the patterns that we see are basically

368

00:21:29,140 --> 00:21:26,270

universal every subject shows these

369

00:21:31,740 --> 00:21:29,150

effects in various ways and in various

370

00:21:34,659 --> 00:21:31,750

degrees I'm quite intrigued with the

371

00:21:37,450 --> 00:21:34,669

displacement of the center of

372

00:21:43,780 --> 00:21:37,460

oscillation it's incredible yes

373

00:21:49,590 --> 00:21:43,790

and I would hypothesize that a depending

374

00:21:53,289 --> 00:21:49,600

upon the diagnosis I'm a physician so I

375

00:21:56,799 --> 00:21:53,299

can say these words many upon the

376

00:22:00,250 --> 00:21:56,809

diagnosis that you would get a variation

377

00:22:03,280 --> 00:22:00,260

in that well there is variation I mean

378

00:22:05,049 --> 00:22:03,290

with the same person the variations in

379

00:22:07,090 --> 00:22:05,059

the displacement are considerable all

380

00:22:09,340 --> 00:22:07,100

the ones I showed the displacement is

381

00:22:16,570 --> 00:22:09,350

always in the as was always in the

382

00:22:18,490 --> 00:22:16,580

clockwise direction but it's displaced

383

00:22:21,039 --> 00:22:18,500

in the counterclockwise direction also

384

00:22:26,169 --> 00:22:21,049

by the same person at different times

385

00:22:28,510 --> 00:22:26,179

and it's it's hard to understand why yes

386

00:22:29,500 --> 00:22:28,520

perhaps you can talk together later we

387

00:22:34,320 --> 00:22:29,510

do need to be fish

388

00:22:37,539 --> 00:22:34,330

so really an elegant experiment although

389

00:22:40,240 --> 00:22:37,549

it reminds me a little of the Russian

390

00:22:41,680 --> 00:22:40,250

torsion fields but cause II Rev and

391

00:22:43,810 --> 00:22:41,690

others have worked on others have

392

00:22:45,880 --> 00:22:43,820

commented on that I wonder if there's

393

00:22:48,220 --> 00:22:45,890

something there question you may have

394

00:22:49,690 --> 00:22:48,230

mentioned this in your presentation how

395

00:22:52,930 --> 00:22:49,700

did you make sure that you weren't

396

00:22:59,760 --> 00:22:52,940

getting electrostatic fields producing

397

00:23:02,200 --> 00:22:59,770

some of these offset effects well I I

398

00:23:04,350 --> 00:23:02,210

don't see any reason why they would be

399

00:23:06,820 --> 00:23:04,360

there I mean the electrostatic fields I

400

00:23:09,940 --> 00:23:06,830

think would be more likely with the

401
00:23:12,280 --> 00:23:09,950
steel mesh detector but the Coco fiber

402
00:23:19,799 --> 00:23:12,290
detector which is totally organic

403
00:23:24,039 --> 00:23:19,809
I showed very similar effects well I

404
00:23:27,010 --> 00:23:24,049
didn't really deal with that and I'm

405
00:23:29,110 --> 00:23:27,020
delighted by the simplicity of your

406
00:23:30,460 --> 00:23:29,120
system and the elegance of your analysis

407
00:23:34,150 --> 00:23:30,470
it looks like you have something that

408
00:23:36,760 --> 00:23:34,160
you can now test subjects in different

409
00:23:42,480 --> 00:23:36,770
states different brain States healers

410
00:23:47,350 --> 00:23:42,490
are you doing that a little bit it's

411
00:23:53,620 --> 00:23:47,360
I've had one of the subjects subject one

412
00:23:55,870 --> 00:23:53,630
in fact is rather experienced in you

413
00:23:58,419 --> 00:23:55,880

know interest in martial arts and either

414

00:24:00,610 --> 00:23:58,429

medical practices and yeah but what it's

415

00:24:02,880 --> 00:24:00,620

worth he has the strongest effects of

416

00:24:05,650 --> 00:24:02,890

anyone but the third experiment the the

417

00:24:08,530 --> 00:24:05,660

you didn't really have a long enough

418

00:24:11,890 --> 00:24:08,540

time but the third person was totally it

419

00:24:14,049 --> 00:24:11,900

was the only experiment he had ever had

420

00:24:16,780 --> 00:24:14,059

participated in and the same things

421

00:24:19,900 --> 00:24:16,790

happen so you don't have to be an adept

422

00:24:22,539 --> 00:24:19,910

or be talented in order to exert these

423

00:24:24,549 --> 00:24:22,549

effects my name is nosy and even have a

424

00:24:26,200 --> 00:24:24,559

very simplistic question maybe because I

425

00:24:26,860 --> 00:24:26,210

of my ignorant of what you are

426

00:24:29,409 --> 00:24:26,870

describing

427

00:24:31,690 --> 00:24:29,419

so the person who's sitting on the chair

428

00:24:33,200 --> 00:24:31,700

there wouldn't be perfectly still maybe

429

00:24:36,919 --> 00:24:33,210

they're moving a little bit

430

00:24:38,930 --> 00:24:36,929

something well wondering if you if you

431

00:24:40,700 --> 00:24:38,940

what if you placed a dummy that was not

432

00:24:43,700 --> 00:24:40,710

even a person and would be perfectly

433

00:24:46,820 --> 00:24:43,710

still anything I placed under it that

434

00:24:51,350 --> 00:24:46,830

isn't a person doesn't have any effects

435

00:24:54,139 --> 00:24:51,360

on it I had a control with a cooking pot

436

00:24:55,760 --> 00:24:54,149

that produces heat and you know

437

00:25:01,120 --> 00:24:55,770

equivalent to what a person would

438

00:25:03,799 --> 00:25:01,130

produce and it doesn't have any effect

439

00:25:05,539 --> 00:25:03,809

hi I'm Liam gray I really appreciate

440

00:25:07,669 --> 00:25:05,549

your experiment and I'd like to try to

441

00:25:10,820 --> 00:25:07,679

replicate it I think I think you lied it

442

00:25:13,220 --> 00:25:10,830

to assist one thing I'm hoping to start

443

00:25:15,110 --> 00:25:13,230

asking all the speakers is if they could

444

00:25:16,850 --> 00:25:15,120

estimate the cost of replicating the

445

00:25:20,360 --> 00:25:16,860

experiment in your case it looks like

446

00:25:21,799 --> 00:25:20,370

the five dollars or the that part is

447

00:25:24,409 --> 00:25:21,809

very cheap but how about for your

448

00:25:27,230 --> 00:25:24,419

measurement apparatus and the well they

449

00:25:30,350 --> 00:25:27,240

it's probably the most expensive thing

450

00:25:35,570 --> 00:25:30,360

is the support I had to the sport

451
00:25:38,480 --> 00:25:35,580
consists of two tripods which and and

452
00:25:43,220 --> 00:25:38,490
then there's the camera but it's you

453
00:25:48,350 --> 00:25:43,230
know a \$45 you know webcam works great

454
00:25:51,080 --> 00:25:48,360
and you need a computer but practically

455
00:25:55,039 --> 00:25:51,090
everybody has a computer and the

456
00:25:59,539 --> 00:25:55,049
software is not breathing actually it's

457
00:26:01,460 --> 00:25:59,549
a it's a professionally written software

458
00:26:04,610 --> 00:26:01,470
program so there is a cost associated

459
00:26:07,610 --> 00:26:04,620
with it but it's not very great and so

460
00:26:10,549 --> 00:26:07,620
dr. Hanson my name is John Reid it

461
00:26:13,630 --> 00:26:10,559
appears that your experiments confirms

462
00:26:16,130 --> 00:26:13,640
some of the theories and practices of

463
00:26:17,990 --> 00:26:16,140

ancient India because they had theory

464

00:26:19,519 --> 00:26:18,000

theorized that there was an hour of

465

00:26:22,250 --> 00:26:19,529

field around the body and that there

466

00:26:24,350 --> 00:26:22,260

were several layers of energy fields

467

00:26:27,799 --> 00:26:24,360

around the human body so that that goes

468

00:26:29,990 --> 00:26:27,809

to some you know in some way confirms

469

00:26:33,850 --> 00:26:30,000

that not to mention the torsional like

470

00:26:37,029 --> 00:26:33,860

the chakras exactly exactly and

471

00:26:39,639 --> 00:26:37,039

in ancient India and current practices

472

00:26:43,269 --> 00:26:39,649

they used that field to make diagnoses

473

00:26:45,249 --> 00:26:43,279

which dr. Bosman had mentioned earlier

474

00:26:47,499 --> 00:26:45,259

on and and I'm very interested in that

475

00:26:49,389 --> 00:26:47,509

myself because I'm a physician and like

476

00:26:49,690 --> 00:26:49,399

to work or talk more with you about it

477

00:26:54,009 --> 00:26:49,700

later