



1
00:00:05,900 --> 00:00:03,619
so good morning everybody I'm going to

2
00:00:09,919 --> 00:00:05,910
report today on some ongoing research at

3
00:00:13,160 --> 00:00:09,929
the Westfall neuroimaging lab and the

4
00:00:15,799 --> 00:00:13,170
division of perceptual studies also

5
00:00:19,370 --> 00:00:15,809
known as dots at the University of

6
00:00:24,500 --> 00:00:19,380
Virginia just a little background

7
00:00:31,339 --> 00:00:24,510
Dobbs's was founded in 1967 by the late

8
00:00:32,389 --> 00:00:31,349
dr. Ian Stevenson and was originally

9
00:00:37,549 --> 00:00:32,399
known as the division of

10
00:00:42,619 --> 00:00:37,559
parapsychological studies so Ian

11
00:00:45,740 --> 00:00:42,629
Stevenson is mostly known for his work

12
00:00:47,990 --> 00:00:45,750
in reincarnation that work is still

13
00:00:52,160 --> 00:00:48,000

ongoing to the state it's being carried

14

00:00:55,549 --> 00:00:52,170

forward a little bit of shameless plug

15

00:00:57,520 --> 00:00:55,559

for some of the the publications that

16

00:00:59,990 --> 00:00:57,530

have been coming out of DAPs lately

17

00:01:05,960 --> 00:01:00,000

science the self and survival after

18

00:01:08,539 --> 00:01:05,970

death is a summary of some of IANS

19

00:01:12,530 --> 00:01:08,549

Stevenson's writings including but not

20

00:01:15,649 --> 00:01:12,540

limited to his reincarnation work Jim

21

00:01:17,420 --> 00:01:15,659

Tucker is now the head of Dobbs has got

22

00:01:18,980 --> 00:01:17,430

a couple of books out one life before

23

00:01:22,490 --> 00:01:18,990

life is a review of all the dots

24

00:01:26,630 --> 00:01:22,500

research done on children who have past

25

00:01:28,940 --> 00:01:26,640

life memories Jim's most recent book

26

00:01:31,130 --> 00:01:28,950

returned to life has got a number of

27

00:01:33,289 --> 00:01:31,140

interesting American cases of children

28

00:01:37,190 --> 00:01:33,299

with past life memories it's really

29

00:01:39,020 --> 00:01:37,200

quite an interesting read Bruce Grayson

30

00:01:42,170 --> 00:01:39,030

who was the head of the division for

31

00:01:45,310 --> 00:01:42,180

many years has edited the handbook of

32

00:01:50,030 --> 00:01:45,320

near-death experiences and E's is

33

00:01:52,460 --> 00:01:50,040

Bruce's area of research irreducible

34

00:01:56,359 --> 00:01:52,470

mind is an all-out attack on classical

35

00:01:56,959 --> 00:01:56,369

physicalism and is a classic book in and

36

00:02:00,249 --> 00:01:56,969

of itself

37

00:02:03,770 --> 00:02:00,259

edited by egg Kelly and Emily Kelly and

38

00:02:05,959 --> 00:02:03,780

company and the follow-up to that is

39

00:02:09,109 --> 00:02:05,969

beyond physicalism it's a theory

40

00:02:11,940 --> 00:02:09,119

oriented book looking at what the

41

00:02:15,270 --> 00:02:11,950

constructs of humans might be when

42

00:02:19,830 --> 00:02:15,280

mystical experiences and sigh phenomena

43

00:02:21,479 --> 00:02:19,840

are taken into account so right across

44

00:02:24,059 --> 00:02:21,489

the hall from dops

45

00:02:25,170 --> 00:02:24,069

under the auspices of Cedar Creek

46

00:02:28,440 --> 00:02:25,180

Institute DAPs

47

00:02:31,440 --> 00:02:28,450

it's a sister organization is the

48

00:02:36,509 --> 00:02:31,450

Westfall neuroimaging lab where I'm

49

00:02:38,370 --> 00:02:36,519

working the the lab is dedicated to the

50

00:02:40,979 --> 00:02:38,380

psychophysiological study of altered

51
00:02:43,170 --> 00:02:40,989
states of consciousness in sy that's

52
00:02:47,759 --> 00:02:43,180
relatively new lab we just got underway

53
00:02:49,880 --> 00:02:47,769
really about 2010 one of our goals is to

54
00:02:55,800 --> 00:02:49,890
identify physiological conditions

55
00:02:58,500 --> 00:02:55,810
conducive to success inside tasks the

56
00:03:01,640 --> 00:02:58,510
facility boasts a electromagnetically

57
00:03:06,690 --> 00:03:01,650
shielded room pretty spacious one that

58
00:03:09,809 --> 00:03:06,700
meets the CI a tempest specification for

59
00:03:12,259 --> 00:03:09,819
100 DB of shielding and a bandwidth of

60
00:03:15,330 --> 00:03:12,269
20 kilohertz to 10 gigahertz

61
00:03:18,030 --> 00:03:15,340
we have a hundred 28 channel EEG that's

62
00:03:24,620 --> 00:03:18,040
also capable of recording auxiliary

63
00:03:28,289 --> 00:03:24,630

channels such as the OG GSR EKG yeah

64

00:03:30,569 --> 00:03:28,299

skin potential etc there's a remote

65

00:03:32,809 --> 00:03:30,579

agent room in a separate floor of the

66

00:03:36,330 --> 00:03:32,819

building with audio-visual capability

67

00:03:42,330 --> 00:03:36,340

which we are using for telepathy and OBE

68

00:03:45,720 --> 00:03:42,340

type studies and we have a now installed

69

00:03:49,229 --> 00:03:45,730

and functioning software base for

70

00:03:52,949 --> 00:03:49,239

automated verticals and site testing we

71

00:03:55,559 --> 00:03:52,959

also have a set of multiple sensors for

72

00:03:57,360 --> 00:03:55,569

PK testing which I'm going to describe a

73

00:04:00,000 --> 00:03:57,370

little bit more in a minute but first I

74

00:04:03,289 --> 00:04:00,010

would like to put out a plea that if you

75

00:04:07,080 --> 00:04:03,299

know of advanced meditators obe

76

00:04:12,120 --> 00:04:07,090

practitioners advanced healers trance

77

00:04:13,949 --> 00:04:12,130

mediums PK and ESP experts who are

78

00:04:18,039 --> 00:04:13,959

interested in engaging in scientific

79

00:04:21,039 --> 00:04:18,049

research please direct them our way

80

00:04:27,520 --> 00:04:21,049

you can find us by doing a search of

81

00:04:29,170 --> 00:04:27,530

tops UVA or CCI UVA on the web and you

82

00:04:33,029 --> 00:04:29,180

get to those websites there's directions

83

00:04:37,050 --> 00:04:33,039

on how to contact our staff from there

84

00:04:40,649 --> 00:04:37,060

so I mentioned we have a an array of

85

00:04:43,779 --> 00:04:40,659

various sensors these are 24 channels

86

00:04:47,529 --> 00:04:43,789

that are simultaneously sampled with the

87

00:04:49,960 --> 00:04:47,539

physiological data there are several

88

00:04:53,170 --> 00:04:49,970

different types of sensors these are

89

00:04:58,870 --> 00:04:53,180

oriented towards RPK studies for example

90

00:05:02,439 --> 00:04:58,880

for example a bank of resistors three

91

00:05:06,730 --> 00:05:02,449

axis magnetometer four channels of his

92

00:05:09,990 --> 00:05:06,740

electric force detector the electric

93

00:05:12,790 --> 00:05:10,000

field monitor the Geiger counter

94

00:05:15,580 --> 00:05:12,800

temperature sensors were also monitoring

95

00:05:19,510 --> 00:05:15,590

temperature and humidity in the shielded

96

00:05:23,200 --> 00:05:19,520

room and then we have a class of an odd

97

00:05:25,830 --> 00:05:23,210

class of sensors that I guess could best

98

00:05:32,620 --> 00:05:25,840

be described as slow rate and then

99

00:05:36,969 --> 00:05:32,630

generators just as an aside at this

100

00:05:40,510 --> 00:05:36,979

point I have to tell you what the bias

101
00:05:45,010 --> 00:05:40,520
of the experimenter / engineer ie me is

102
00:05:47,260 --> 00:05:45,020
in these types of experiments I noticed

103
00:05:50,610 --> 00:05:47,270
with interest yesterday bill Bengston

104
00:05:54,339 --> 00:05:50,620
talking about the healing it's not PK

105
00:05:57,459 --> 00:05:54,349
it's just something that that's

106
00:05:59,740 --> 00:05:57,469
happening we probably have a slightly

107
00:06:02,019 --> 00:05:59,750
different approach in this and that's

108
00:06:05,469 --> 00:06:02,029
partly based on my own personal

109
00:06:08,499 --> 00:06:05,479
experience I attended a PK party many

110
00:06:12,370 --> 00:06:08,509
years ago that Jack how an engineer from

111
00:06:14,769 --> 00:06:12,380
McDonnell Douglas was giving and in that

112
00:06:19,089 --> 00:06:14,779
party I witnessed firsthand some pretty

113
00:06:21,129 --> 00:06:19,099

amazing metal bending in fact I got to

114

00:06:23,709 --> 00:06:21,139

experience it myself I was standing

115

00:06:24,640 --> 00:06:23,719

there with a spoon and two people on the

116

00:06:27,550 --> 00:06:24,650

other side of me

117

00:06:30,500 --> 00:06:27,560

chanting Bend Bend Bend and I felt that

118

00:06:34,300 --> 00:06:30,510

spoon momentarily turning to

119

00:06:37,850 --> 00:06:34,310

Kathy and I got to complete 360 degree

120

00:06:42,050 --> 00:06:37,860

twists spiral twists in the thing before

121

00:06:44,420 --> 00:06:42,060

it got stiff again I afterwards I took a

122

00:06:47,060 --> 00:06:44,430

spoon that was exactly the same type and

123

00:06:50,360 --> 00:06:47,070

tried doing that by force alone and the

124

00:06:53,870 --> 00:06:50,370

thing snapped before it ever reached 90

125

00:06:56,150 --> 00:06:53,880

degrees yeah I also witnessed that day

126
00:06:58,730 --> 00:06:56,160
aside from lots of other people bending

127
00:07:02,480 --> 00:06:58,740
I saw a little old lady take a 3/8 inch

128
00:07:06,080 --> 00:07:02,490
steel rod and get a 45 degree bend in

129
00:07:07,730 --> 00:07:06,090
that thing and I know for a fact trying

130
00:07:09,860 --> 00:07:07,740
it personally and so for other people

131
00:07:13,900 --> 00:07:09,870
you cannot bend that steel rod by

132
00:07:16,520 --> 00:07:13,910
physical force alone so here we have

133
00:07:19,670 --> 00:07:16,530
smoking gun evidence that through

134
00:07:23,510 --> 00:07:19,680
intention people are able to affect the

135
00:07:27,560 --> 00:07:23,520
molecular structure of metal and that's

136
00:07:31,460 --> 00:07:27,570
kind of directed my efforts in making PK

137
00:07:35,260 --> 00:07:31,470
sensors and PK research so I tried to

138
00:07:40,940 --> 00:07:35,270

build electronic devices that would

139

00:07:44,180 --> 00:07:40,950

maybe somehow pick up or respond to what

140

00:07:46,160 --> 00:07:44,190

a metal band was doing and turn that

141

00:07:48,590 --> 00:07:46,170

into electrical signal that then we can

142

00:07:52,310 --> 00:07:48,600

then monitor simultaneously with our

143

00:07:57,260 --> 00:07:52,320

physiological monitoring I was working

144

00:08:00,710 --> 00:07:57,270

on something like that when I discovered

145

00:08:04,510 --> 00:08:00,720

quite by accident that the device the

146

00:08:10,030 --> 00:08:04,520

electronic circuit was generating these

147

00:08:16,400 --> 00:08:13,670

one of these sharp edges an edge like

148

00:08:18,730 --> 00:08:16,410

that we would define as an event these

149

00:08:23,960 --> 00:08:18,740

things are appearing at random intervals

150

00:08:25,910 --> 00:08:23,970

they also have different amplitudes I

151
00:08:28,160 --> 00:08:25,920
didn't really want them in there I

152
00:08:31,430 --> 00:08:28,170
thought that was a problem with this

153
00:08:34,870 --> 00:08:31,440
circuit but I accidentally noticed in

154
00:08:37,909 --> 00:08:34,880
doing some of our experiments that these

155
00:08:40,490 --> 00:08:37,919
events seem to be appearing

156
00:08:42,469 --> 00:08:40,500
groups are more often when people were

157
00:08:46,129 --> 00:08:42,479
directing their attention towards the

158
00:08:48,740 --> 00:08:46,139
device so that caught my attention and I

159
00:08:51,440 --> 00:08:48,750
started going around doing a little bit

160
00:08:54,949 --> 00:08:51,450
of observational research with this

161
00:08:58,579 --> 00:08:54,959
thing working with groups with healers

162
00:09:02,780 --> 00:08:58,589
and whatnot and noticing that more of

163
00:09:05,600 --> 00:09:02,790

these events were appearing for example

164

00:09:07,879 --> 00:09:05,610

with healers when the healer was working

165

00:09:11,900 --> 00:09:07,889

on a person and they would have a some

166

00:09:13,340 --> 00:09:11,910

sort of breakthrough it seemed like more

167

00:09:15,170 --> 00:09:13,350

of these events were appearing of course

168

00:09:20,930 --> 00:09:15,180

that was just observational practically

169

00:09:24,079 --> 00:09:20,940

anecdotal and the event rates on these

170

00:09:25,550 --> 00:09:24,089

things was extremely slow I will get

171

00:09:28,519 --> 00:09:25,560

back to that and then it just a little

172

00:09:29,930 --> 00:09:28,529

bit of detail on these events though as

173

00:09:31,910 --> 00:09:29,940

I mentioned they're slow it takes about

174

00:09:34,480 --> 00:09:31,920

a quarter of a second for an average

175

00:09:37,460 --> 00:09:34,490

event to get the full rise time and

176

00:09:40,819 --> 00:09:37,470

based on what we know about what's going

177

00:09:43,519 --> 00:09:40,829

on in the circuit these events are

178

00:09:48,350 --> 00:09:43,529

appearing in conjunction with about

179

00:09:50,780 --> 00:09:48,360

25,000 electrons sloshing around so if

180

00:09:52,759 --> 00:09:50,790

indeed these things are responding

181

00:09:55,819 --> 00:09:52,769

somehow to attention it's an attention

182

00:09:59,300 --> 00:09:55,829

that's moving well an average about

183

00:10:02,180 --> 00:09:59,310

25,000 electrons the amplifier noise

184

00:10:03,380 --> 00:10:02,190

floor is 100 elec the equivalent of 100

185

00:10:07,660 --> 00:10:03,390

electrons so we have a pretty good

186

00:10:10,790 --> 00:10:07,670

signal to noise ratio with this device a

187

00:10:12,500 --> 00:10:10,800

little bit more about it we did some

188

00:10:14,710 --> 00:10:12,510

work on the distribution of event

189

00:10:18,170 --> 00:10:14,720

intervals found that it was

190

00:10:20,780 --> 00:10:18,180

exponentially distributed with the scale

191

00:10:23,750 --> 00:10:20,790

factor being equal to the inverse of the

192

00:10:27,259 --> 00:10:23,760

measured being rate of events indicating

193

00:10:29,240 --> 00:10:27,269

it's a Poisson process I can't go into

194

00:10:30,920 --> 00:10:29,250

too much more detail about it because at

195

00:10:34,189 --> 00:10:30,930

this point we decided to make that

196

00:10:36,199 --> 00:10:34,199

little circuit proprietary in order to

197

00:10:36,790 --> 00:10:36,209

possibly maybe get more funding out of

198

00:10:45,940 --> 00:10:36,800

it some

199

00:10:47,800 --> 00:10:45,950

down the road but nonetheless oh and if

200

00:10:50,259 --> 00:10:47,810

you'll notice then there's your bean

201
00:10:52,090 --> 00:10:50,269
rate point zero one two events per

202
00:10:55,509 --> 00:10:52,100
seconds extremely slow

203
00:10:58,600 --> 00:10:55,519
so in order to make this device a little

204
00:11:01,329 --> 00:10:58,610
bit more amenable to research that

205
00:11:04,210 --> 00:11:01,339
decided to start adding channels and

206
00:11:09,269 --> 00:11:04,220
making multiple channel devices to get

207
00:11:15,519 --> 00:11:11,790
what happened was we ended up with

208
00:11:19,920 --> 00:11:15,529
device it looks like this inside each of

209
00:11:23,319 --> 00:11:19,930
those little boxes are multiple channels

210
00:11:28,780 --> 00:11:23,329
with those event sensors in them or

211
00:11:30,699 --> 00:11:28,790
event generators in effect we have a

212
00:11:34,590 --> 00:11:30,709
peak a target that's kind of spread out

213
00:11:37,660 --> 00:11:34,600

over space the whole the whole thing is

214

00:11:40,630 --> 00:11:37,670

electrically shielded extremely well

215

00:11:43,870 --> 00:11:40,640

shielded and then the little box is

216

00:11:48,370 --> 00:11:43,880

remounted inside a second RF shielded

217

00:11:50,350 --> 00:11:48,380

box with special RF shielding on the

218

00:11:52,690 --> 00:11:50,360

cables that run into the box that's the

219

00:11:54,850 --> 00:11:52,700

voice we use to use an MRI scanner so I

220

00:11:58,930 --> 00:11:54,860

know it's running about 130 DB of

221

00:12:01,660 --> 00:11:58,940

electrical shielding the device is

222

00:12:03,490 --> 00:12:01,670

battery operated as is all the

223

00:12:06,460 --> 00:12:03,500

physiological monitoring everything is

224

00:12:09,639 --> 00:12:06,470

isolated from power and Earth ground and

225

00:12:13,090 --> 00:12:09,649

we ran a rather large long series of

226

00:12:15,760 --> 00:12:13,100

tests on this device looking for what

227

00:12:19,960 --> 00:12:15,770

kinds of environmental influences might

228

00:12:24,490 --> 00:12:19,970

be affecting it we tested for electric

229

00:12:26,350 --> 00:12:24,500

and magnetic fields we looked especially

230

00:12:28,930 --> 00:12:26,360

a background radiation and cosmic

231

00:12:31,689 --> 00:12:28,940

radiation because in a way this thing

232

00:12:34,180 --> 00:12:31,699

looks like a poor man's ionization

233

00:12:38,439 --> 00:12:34,190

chamber but we could find no correlation

234

00:12:41,910 --> 00:12:38,449

with a Geiger counter set up right next

235

00:12:44,650 --> 00:12:41,920

to it still doing more work on that but

236

00:12:48,069 --> 00:12:44,660

so far the only correlation to an

237

00:12:54,610 --> 00:12:48,079

environmental variable that I have found

238

00:12:58,119 --> 00:12:54,620

with this thing is humidity so I took

239

00:13:00,519 --> 00:12:58,129

this box out in the field as I mentioned

240

00:13:03,309 --> 00:13:00,529

earlier and worked with groups I took it

241

00:13:06,999 --> 00:13:03,319

to the Monroe Institute and worked with

242

00:13:08,939 --> 00:13:07,009

PK groups there again worked with

243

00:13:11,800 --> 00:13:08,949

healers I went to norm Hansen's

244

00:13:16,780 --> 00:13:11,810

did some work with him and the torsion

245

00:13:20,920 --> 00:13:16,790

pendulum and I got data that was again

246

00:13:23,019 --> 00:13:20,930

kind of observational suggestive we had

247

00:13:25,150 --> 00:13:23,029

some statistics we got statistical

248

00:13:27,100 --> 00:13:25,160

significance it was a little loose in

249

00:13:29,650 --> 00:13:27,110

terms of timing and things like that but

250

00:13:32,350 --> 00:13:29,660

but we were coming up with p-values that

251
00:13:36,850 --> 00:13:32,360
were well below point zero five for

252
00:13:38,410 --> 00:13:36,860
comparing bass lines against periods of

253
00:13:43,689 --> 00:13:38,420
time where when people were trying to

254
00:13:46,299 --> 00:13:43,699
affect this device originally in the

255
00:13:50,230 --> 00:13:46,309
early days we were manually scoring

256
00:13:55,350 --> 00:13:50,240
events we had a lab tech who was doing

257
00:14:00,910 --> 00:13:55,360
that she went found another job so we

258
00:14:02,829 --> 00:14:00,920
switched over to automated scoring so

259
00:14:06,759 --> 00:14:02,839
here's a record of two channels of the

260
00:14:10,569 --> 00:14:06,769
device with some automated scoring marks

261
00:14:12,519 --> 00:14:10,579
in it and what we are doing is pulling

262
00:14:15,579 --> 00:14:12,529
out not only timing but amplitude

263
00:14:17,369 --> 00:14:15,589

information so that the score that we're

264

00:14:25,929 --> 00:14:17,379

using right now is the so-called

265

00:14:27,939 --> 00:14:25,939

weighted event count we're getting the

266

00:14:30,879 --> 00:14:27,949

events by sliding an average slope

267

00:14:35,139 --> 00:14:30,889

filter across the data when it hits one

268

00:14:37,869 --> 00:14:35,149

of those events pops up like this but it

269

00:14:42,309 --> 00:14:37,879

remains well-behaved on the decay down

270

00:14:46,480 --> 00:14:42,319

the other side so with that all in mind

271

00:14:48,390 --> 00:14:46,490

we decided to put this thing to the

272

00:14:53,430 --> 00:14:48,400

tests in the lab

273

00:14:58,850 --> 00:14:53,440

and see what it would do running a very

274

00:15:02,520 --> 00:14:58,860

controlled tightly controlled PK task

275

00:15:08,850 --> 00:15:02,530

with a participants who were wired to

276

00:15:11,940 --> 00:15:08,860

EEG at the same time one other item of

277

00:15:14,220 --> 00:15:11,950

interest on this thing we found that the

278

00:15:20,040 --> 00:15:14,230

multi channel stack device like I was

279

00:15:22,310 --> 00:15:20,050

showing you would be independent which

280

00:15:26,460 --> 00:15:22,320

have independent observations if we used

281

00:15:28,200 --> 00:15:26,470

a segment of the record of eight seconds

282

00:15:30,450 --> 00:15:28,210

anything less than eight seconds and we

283

00:15:32,670 --> 00:15:30,460

start getting some dependence on the

284

00:15:35,310 --> 00:15:32,680

records so as you can see an auto

285

00:15:36,840 --> 00:15:35,320

correlation plots showing that at eight

286

00:15:38,550 --> 00:15:36,850

second intervals these things are

287

00:15:41,370 --> 00:15:38,560

independent and that works out pretty

288

00:15:44,040 --> 00:15:41,380

well physiological monitoring we can use

289

00:15:49,080 --> 00:15:44,050

eight second windows for our spectral

290

00:15:51,840 --> 00:15:49,090

analysis of the EEG so we set the device

291

00:15:54,000 --> 00:15:51,850

up in the lab put it in the corner as

292

00:15:57,600 --> 00:15:54,010

you can see there this is the view that

293

00:16:00,180 --> 00:15:57,610

a participant our experiment would see

294

00:16:01,950 --> 00:16:00,190

and we ran a pilot study it's this pilot

295

00:16:05,280 --> 00:16:01,960

study that I'm going to record on here

296

00:16:08,460 --> 00:16:05,290

today the pilot study was set up with

297

00:16:10,980 --> 00:16:08,470

the block type design which means that

298

00:16:16,110 --> 00:16:10,990

it was run as a series of rests and

299

00:16:18,720 --> 00:16:16,120

piqué trials set up in an ABB a type

300

00:16:21,660 --> 00:16:18,730

sequence very similar to D Mills like

301
00:16:24,360 --> 00:16:21,670
the experiment and we have to run these

302
00:16:26,340 --> 00:16:24,370
comparing base lines against task

303
00:16:28,560 --> 00:16:26,350
conditions because there's really no set

304
00:16:32,010 --> 00:16:28,570
statistics on this device like you would

305
00:16:34,410 --> 00:16:32,020
see with a midstream RNG where you're

306
00:16:41,580 --> 00:16:34,420
getting an expected value of say of 100

307
00:16:44,340 --> 00:16:41,590
for two hundred bits sample the the

308
00:16:47,100 --> 00:16:44,350
trials are audio paste so our

309
00:16:51,050 --> 00:16:47,110
participant will be sitting there wired

310
00:16:53,390 --> 00:16:51,060
up teg and they'll hear audio commands

311
00:16:56,840 --> 00:16:53,400
generated by a computer telling

312
00:16:58,790 --> 00:16:56,850
to either rest or engage in pique they

313
00:17:04,940 --> 00:16:58,800

get feedback at the end of each trial

314

00:17:08,870 --> 00:17:04,950

and that's a short burst tone of a tone

315

00:17:12,920 --> 00:17:08,880

and excuse me indicating whether or not

316

00:17:16,520 --> 00:17:12,930

they got more events and the trial than

317

00:17:18,620 --> 00:17:16,530

in the previous trial we started out

318

00:17:21,410 --> 00:17:18,630

initially with three-minute trial

319

00:17:22,850 --> 00:17:21,420

lengths thinking okay that's kind of

320

00:17:24,620 --> 00:17:22,860

like what we're doing out in the field

321

00:17:28,820 --> 00:17:24,630

it takes people a little while to get

322

00:17:30,380 --> 00:17:28,830

them their mojo up and running and found

323

00:17:33,590 --> 00:17:30,390

out after a while that three-minute

324

00:17:35,030 --> 00:17:33,600

trial lengths are absolutely torture for

325

00:17:38,300 --> 00:17:35,040

an individual who's sitting there

326

00:17:40,400 --> 00:17:38,310

running multiple trials so we gradually

327

00:17:48,260 --> 00:17:40,410

shorten them and we ended up settling on

328

00:17:49,690 --> 00:17:48,270

48 second trial lengths okay what

329

00:17:55,340 --> 00:17:49,700

happened

330

00:17:58,730 --> 00:17:55,350

we ran 68 runs with humans we had seven

331

00:18:02,860 --> 00:17:58,740

significant outcomes the significant

332

00:18:05,270 --> 00:18:02,870

outcome is defined as having a p-value

333

00:18:08,540 --> 00:18:05,280

less than point zero five in a

334

00:18:14,150 --> 00:18:08,550

two-tailed bootstrap resampled t-test

335

00:18:17,060 --> 00:18:14,160

comparing news event waited excuse me

336

00:18:20,960 --> 00:18:17,070

amplitude waited event counts in PK

337

00:18:23,030 --> 00:18:20,970

versus rest conditions now based on the

338

00:18:24,800 --> 00:18:23,040

binomial distribution assuming chance

339

00:18:30,280 --> 00:18:24,810

success the probability of getting that

340

00:18:34,910 --> 00:18:30,290

is 0.03 however several of our hits were

341

00:18:38,110 --> 00:18:34,920

much less than point zero five p-value

342

00:18:42,800 --> 00:18:38,120

so that's a conservative estimate of the

343

00:18:47,810 --> 00:18:42,810

significance of this trial we found out

344

00:18:51,320 --> 00:18:47,820

a few other things from the from this

345

00:18:52,700 --> 00:18:51,330

pilot study one is that the trial length

346

00:18:58,070 --> 00:18:52,710

actually didn't seem to make much

347

00:18:59,840 --> 00:18:58,080

difference in terms of their success we

348

00:19:02,330 --> 00:18:59,850

got about equal numbers of hits with the

349

00:19:06,330 --> 00:19:02,340

longer trials versus the shorter trials

350

00:19:11,060 --> 00:19:06,340

the same goes with feedback really

351
00:19:14,310 --> 00:19:11,070
didn't seem to make much difference so

352
00:19:17,729 --> 00:19:14,320
but from talking with our participants

353
00:19:21,299 --> 00:19:17,739
it was clear shorter trial lengths were

354
00:19:23,099 --> 00:19:21,309
preferred and feedback made the whole

355
00:19:27,049 --> 00:19:23,109
experiment much more interesting for

356
00:19:29,820 --> 00:19:27,059
participants we basically had three

357
00:19:32,690 --> 00:19:29,830
participants who were running the bulk

358
00:19:36,810 --> 00:19:32,700
of this experiment 54 of the runs with

359
00:19:42,779 --> 00:19:36,820
four of the hits but we had several

360
00:19:47,129 --> 00:19:42,789
other participants scoring hits and one

361
00:19:50,539 --> 00:19:47,139
of those before I get to that I have to

362
00:19:53,519 --> 00:19:50,549
mention that we ran 25 control rounds

363
00:19:56,669 --> 00:19:53,529

was basically running the protocol

364

00:20:01,200 --> 00:19:56,679

without anybody in the room with no

365

00:20:04,169 --> 00:20:01,210

significant outcomes this is all

366

00:20:06,479 --> 00:20:04,179

actually rather surprising to me to see

367

00:20:10,259 --> 00:20:06,489

this in action we tried controlling for

368

00:20:13,139 --> 00:20:10,269

experimenter effect by clearing out the

369

00:20:15,869 --> 00:20:13,149

control area of all personnel during

370

00:20:18,470 --> 00:20:15,879

experimental run moving everybody to an

371

00:20:21,269 --> 00:20:18,480

outer room where we had a video monitor

372

00:20:22,859 --> 00:20:21,279

showing a live feed of the participant

373

00:20:25,649 --> 00:20:22,869

in the experiment this was done for

374

00:20:28,109 --> 00:20:25,659

safety reasons and also an indication of

375

00:20:34,970 --> 00:20:28,119

the trial number so we would know when

376
00:20:39,509 --> 00:20:34,980
the experiment was finished so I went to

377
00:20:43,099 --> 00:20:39,519
now go to part two of this and show you

378
00:20:45,989 --> 00:20:43,109
some of the EEG results that we found

379
00:20:52,159 --> 00:20:45,999
we're still just really getting into the

380
00:20:55,879 --> 00:20:52,169
EEG study of the of this pilot study but

381
00:21:00,239 --> 00:20:55,889
one of the first ones we looked at was a

382
00:21:03,499 --> 00:21:00,249
pretty good hit you get P of point zero

383
00:21:07,139 --> 00:21:03,509
zero seven and we happen to get a full

384
00:21:09,960 --> 00:21:07,149
128 channel EEG this was done on a

385
00:21:11,419 --> 00:21:09,970
person who was probably closest to a

386
00:21:15,000 --> 00:21:11,429
professional peak

387
00:21:20,250 --> 00:21:15,010
in existence it's a joke Ellenberger who

388
00:21:23,669 --> 00:21:20,260

is runs PK courses at the Monroe

389

00:21:27,950 --> 00:21:23,679

Institute teaching people manifestation

390

00:21:31,530 --> 00:21:27,960

in pk he also runs groups to Las Vegas

391

00:21:37,289 --> 00:21:31,540

where they get to test their PK in

392

00:21:41,250 --> 00:21:37,299

action in the casinos and Joe Joe was

393

00:21:45,150 --> 00:21:41,260

like a great EEG subject he knows how to

394

00:21:48,200 --> 00:21:45,160

to sit very quietly while he's doing

395

00:21:52,770 --> 00:21:48,210

this PK effort and I should mention that

396

00:21:55,169 --> 00:21:52,780

EEG is quite a difficult thing to do on

397

00:21:58,409 --> 00:21:55,179

people who are engaged in any kind of

398

00:21:59,909 --> 00:21:58,419

activity that might involve movement any

399

00:22:02,610 --> 00:21:59,919

kind of movement artifact will

400

00:22:05,159 --> 00:22:02,620

completely disrupt an EEG such as

401
00:22:07,799 --> 00:22:05,169
swallowing talking moving your head

402
00:22:10,650 --> 00:22:07,809
blinking your eyes having a little

403
00:22:13,680 --> 00:22:10,660
muscle tension from grimacing and

404
00:22:16,200 --> 00:22:13,690
whatnot which makes it very difficult to

405
00:22:19,380 --> 00:22:16,210
run these types of experiments and I

406
00:22:21,120 --> 00:22:19,390
would say that Joe was a model subject

407
00:22:26,930 --> 00:22:21,130
which which any man you're going to see

408
00:22:34,560 --> 00:22:32,190
so actually before I get to this part

409
00:22:37,860 --> 00:22:34,570
the first thing we did was looking at as

410
00:22:39,360 --> 00:22:37,870
raw EEG and we found that you know there

411
00:22:43,560 --> 00:22:39,370
were maybe three or four bad channels

412
00:22:45,659 --> 00:22:43,570
and threw those out we saw no gross

413
00:22:48,840 --> 00:22:45,669

movement artifact we saw a little bit of

414

00:22:50,400 --> 00:22:48,850

eye movement artifact we easily got rid

415

00:22:53,940 --> 00:22:50,410

of that just using a three Hertz

416

00:22:55,890 --> 00:22:53,950

high-pass filter and we saw a tiny bit

417

00:22:59,659 --> 00:22:55,900

of muscle tension on some of the

418

00:23:02,100 --> 00:22:59,669

temporal electrodes and the PK trials

419

00:23:05,250 --> 00:23:02,110

didn't seem to be significant look like

420

00:23:07,650 --> 00:23:05,260

just a few electrodes we had the first

421

00:23:10,320 --> 00:23:07,660

analysis we ran a thing called global

422

00:23:12,690 --> 00:23:10,330

which takes all the the high density

423

00:23:16,370 --> 00:23:12,700

array and collapses it down to just

424

00:23:19,500 --> 00:23:16,380

three measures amplitude frequency and

425

00:23:20,140 --> 00:23:19,510

complexity what we found was that there

426
00:23:24,420 --> 00:23:20,150
was a

427
00:23:27,910 --> 00:23:24,430
new vegan difference between PK and rest

428
00:23:30,550 --> 00:23:27,920
for the amplitude and frequency measures

429
00:23:32,650 --> 00:23:30,560
would not the complexity measure and

430
00:23:37,300 --> 00:23:32,660
those amplitude and frequency measures

431
00:23:39,160 --> 00:23:37,310
were both higher and the peak a mode so

432
00:23:44,100 --> 00:23:39,170
the next step in the analysis was to

433
00:23:47,590 --> 00:23:44,110
take a look at averaged power spectrum

434
00:23:51,810 --> 00:23:47,600
which is what this is we averaged all

435
00:23:54,190 --> 00:23:51,820
the PK trials and the frequency domain

436
00:23:56,200 --> 00:23:54,200
averaged all the rest trials in the

437
00:24:01,300 --> 00:23:56,210
frequency Doom and subtracted the rest

438
00:24:06,310 --> 00:24:01,310

from the PK and came up with this result

439

00:24:10,510 --> 00:24:06,320

I should explain what this graph this is

440

00:24:14,040 --> 00:24:10,520

starting off in the left frontal area

441

00:24:16,900 --> 00:24:14,050

moving around the left side of the head

442

00:24:20,410 --> 00:24:16,910

here we get to about the left occipital

443

00:24:25,720 --> 00:24:20,420

and then into the right occipital right

444

00:24:29,470 --> 00:24:25,730

temporal and to right frontal this

445

00:24:31,300 --> 00:24:29,480

frequency right here is 10 Hertz so at

446

00:24:33,760 --> 00:24:31,310

first blush what you're seeing is what

447

00:24:38,940 --> 00:24:33,770

looks like some activation going on in

448

00:24:42,190 --> 00:24:38,950

this peak a mode and an alpha in this

449

00:24:45,870 --> 00:24:42,200

left frontal area and in the occipital

450

00:24:49,930 --> 00:24:45,880

area and then a somewhat bizarre

451
00:24:53,500 --> 00:24:49,940
asymmetrical theta active oh it's right

452
00:24:57,490 --> 00:24:53,510
on the Alpha Theta border here on the

453
00:24:58,990 --> 00:24:57,500
right side now the question is at this

454
00:25:01,290 --> 00:24:59,000
point is any of this statistically

455
00:25:05,620 --> 00:25:01,300
significant I'll get to that in a minute

456
00:25:09,390 --> 00:25:05,630
what we also see is this stuff right

457
00:25:14,950 --> 00:25:09,400
here and these are temporal electrons

458
00:25:18,300 --> 00:25:14,960
now this is about 28 Hertz so the

459
00:25:21,600 --> 00:25:18,310
question at this point is is this neural

460
00:25:24,670 --> 00:25:21,610
origin or is this muscle artifact and

461
00:25:27,190 --> 00:25:24,680
it's actually a bit of a conundrum for

462
00:25:30,250 --> 00:25:27,200
EEG studies when you get up into the

463
00:25:32,590 --> 00:25:30,260

high frequency ranges is how much of

464

00:25:33,030 --> 00:25:32,600

what you're looking at is neuro on how

465

00:25:38,730 --> 00:25:33,040

much is

466

00:25:40,650 --> 00:25:38,740

muscle muscle tension on the scalp the

467

00:25:44,310 --> 00:25:40,660

smoking gun in this is that it's on the

468

00:25:47,550 --> 00:25:44,320

temporal electrodes so one would suspect

469

00:25:52,320 --> 00:25:47,560

that maybe this is a muscle muscular

470

00:25:54,030 --> 00:25:52,330

origin so one strategy for dealing with

471

00:25:58,680 --> 00:25:54,040

this is to just get rid of these

472

00:26:01,680 --> 00:25:58,690

electrodes from the analysis okay so

473

00:26:03,690 --> 00:26:01,690

that's what I did and I went on to look

474

00:26:09,390 --> 00:26:03,700

at a statistical analysis of the

475

00:26:13,830 --> 00:26:09,400

electrodes comparing piqué to rest so

476
00:26:19,170 --> 00:26:13,840
here and I started off by doing this in

477
00:26:22,520 --> 00:26:19,180
bands so the theta band is defined as in

478
00:26:26,910 --> 00:26:22,530
this case is four to eight Hertz

479
00:26:29,910 --> 00:26:26,920
what we found in 48 Hertz was these red

480
00:26:33,930 --> 00:26:29,920
dots mark codes that were significantly

481
00:26:35,700 --> 00:26:33,940
different between pique and rest this

482
00:26:40,830 --> 00:26:35,710
green stuff is just markers for the

483
00:26:44,220 --> 00:26:40,840
montage so in the statistical sense

484
00:26:47,520 --> 00:26:44,230
there's really not much happening for Jo

485
00:26:49,590 --> 00:26:47,530
and the theta band and that weird kind

486
00:26:54,440 --> 00:26:49,600
of asymmetry that showed up in the

487
00:26:58,650 --> 00:26:54,450
spectral plot was really not significant

488
00:27:01,080 --> 00:26:58,660

moving on to the Alpha band this sort of

489

00:27:06,000 --> 00:27:01,090

looks a little bit more like what we saw

490

00:27:07,950 --> 00:27:06,010

in the spectral plot there's a alpha

491

00:27:15,180 --> 00:27:07,960

frequency activation going on on that

492

00:27:18,210 --> 00:27:15,190

left side occipital area moving up to

493

00:27:20,010 --> 00:27:18,220

the beta band now things are starting to

494

00:27:23,010 --> 00:27:20,020

spread out you see some in the frontal

495

00:27:26,880 --> 00:27:23,020

areas and more occipital stuff in this

496

00:27:32,670 --> 00:27:26,890

group this beta band is to find this 12

497

00:27:36,300 --> 00:27:32,680

to 20 Hertz so again the question arises

498

00:27:42,510 --> 00:27:36,310

here how much of this is muscle how much

499

00:27:43,560 --> 00:27:42,520

of it this is actual brain activity one

500

00:27:50,160 --> 00:27:43,570

hint of this is

501
00:27:52,590 --> 00:27:50,170
the amplitude weighted average frequency

502
00:27:54,950 --> 00:27:52,600
in this band for these activations was

503
00:27:57,600 --> 00:27:54,960
about 15 Hertz

504
00:28:01,860 --> 00:27:57,610
now I had taken out the temporal

505
00:28:03,510 --> 00:28:01,870
electrodes for this analysis we're not

506
00:28:05,360 --> 00:28:03,520
seeing anything else showing up although

507
00:28:09,300 --> 00:28:05,370
we do see stuff up here

508
00:28:13,470 --> 00:28:09,310
where we do see some stuff here so so is

509
00:28:15,210 --> 00:28:13,480
it muscle or is it zip ring and the way

510
00:28:19,640 --> 00:28:15,220
folks I've been dealing with some of

511
00:28:24,450 --> 00:28:19,650
this is to use ICA to filter out

512
00:28:28,350 --> 00:28:24,460
frequency components from EEG we haven't

513
00:28:32,900 --> 00:28:28,360

done that analysis yet but and the

514

00:28:38,850 --> 00:28:36,930

results were inconclusive basically they

515

00:28:41,730 --> 00:28:38,860

were able to say oh yeah we see muscle

516

00:28:47,070 --> 00:28:41,740

here but they weren't able to actually

517

00:28:50,190 --> 00:28:47,080

take it out of an EEG filtrate moving up

518

00:28:53,340 --> 00:28:50,200

to high beta which was defined as 20 to

519

00:28:58,800 --> 00:28:53,350

35 Hertz now we're seeing even more of

520

00:29:00,600 --> 00:28:58,810

this stuff so again it's muscle leaking

521

00:29:05,490 --> 00:29:00,610

into other electrodes and you just can't

522

00:29:08,250 --> 00:29:05,500

see it in the gross charts I don't know

523

00:29:11,880 --> 00:29:08,260

and finally of great interest is the

524

00:29:17,370 --> 00:29:11,890

gamma band which is in our case to find

525

00:29:18,750 --> 00:29:17,380

us 25 that excuse me 35 to 45 Hertz and

526

00:29:21,260 --> 00:29:18,760

we're getting somewhat of a similar

527

00:29:25,310 --> 00:29:21,270

distribution of significant electrodes

528

00:29:28,170 --> 00:29:25,320

once again and in this case is amplitude

529

00:29:32,880 --> 00:29:28,180

weighted average frequency was right

530

00:29:34,910 --> 00:29:32,890

around 39 or 40 Hertz very narrowly

531

00:29:37,800 --> 00:29:34,920

distributed right around that frequency

532

00:29:40,730 --> 00:29:37,810

now this is a great interest to us

533

00:29:46,550 --> 00:29:40,740

because there have been other studies

534

00:29:51,060 --> 00:29:46,560

the first one was in 1958 das and Gaston

535

00:29:53,299 --> 00:29:51,070

who went to a hotel and Nepal and

536

00:29:56,200 --> 00:29:53,309

recorded EEG s from

537

00:29:59,539 --> 00:29:56,210

meditators and found that they were

538

00:30:01,700 --> 00:29:59,549

producing high-frequency gamma and these

539

00:30:04,369 --> 00:30:01,710

guys were very careful at a lot of

540

00:30:06,320 --> 00:30:04,379

reasons that they put forth as to why

541

00:30:12,289 --> 00:30:06,330

what they were looking at was not muscle

542

00:30:14,419 --> 00:30:12,299

that it truly was brain origin and we

543

00:30:16,999 --> 00:30:14,429

would be quite interested to find that a

544

00:30:19,759 --> 00:30:17,009

person who who was successful at a peak

545

00:30:23,360 --> 00:30:19,769

a task was at the same time producing

546

00:30:28,659 --> 00:30:23,370

gamma that would be a great interest to

547

00:30:33,529 --> 00:30:28,669

us there's another study the pasta

548

00:30:35,539 --> 00:30:33,539

meditators producing occipital gamma and

549

00:30:38,720 --> 00:30:35,549

that one they did have to rest a little

550

00:30:40,999 --> 00:30:38,730

bit with the muscle issue I know from

551
00:30:45,499 --> 00:30:41,009
personal experience I used to work on a

552
00:30:51,070 --> 00:30:45,509
project where we were doing combined EEG

553
00:30:56,119 --> 00:30:51,080
and fMRI imaging and one of our trips

554
00:30:59,239 --> 00:30:56,129
demoing our system we were talking with

555
00:31:02,539 --> 00:30:59,249
the researchers who mentioned they have

556
00:31:06,759 --> 00:31:02,549
been running EEG studies on Tibetan

557
00:31:09,980 --> 00:31:06,769
meditators and these guys were producing

558
00:31:13,789 --> 00:31:09,990
what sounded early fantastic to me it

559
00:31:17,899 --> 00:31:13,799
was quite high frequency stuff around 70

560
00:31:20,590 --> 00:31:17,909
Hertz extremely high amplitude maybe a a

561
00:31:24,139 --> 00:31:20,600
couple hundred micro volts and

562
00:31:27,169 --> 00:31:24,149
distributed only in one particular area

563
00:31:31,220 --> 00:31:27,179

of the head they didn't think it was

564

00:31:33,560 --> 00:31:31,230

muscle but they weren't sure so they

565

00:31:37,190 --> 00:31:33,570

were going to do they wanted to do

566

00:31:38,090 --> 00:31:37,200

combined EEG and fMRI scanning to get to

567

00:31:40,279 --> 00:31:38,100

the bottom of it

568

00:31:42,680 --> 00:31:40,289

I think we're faced with the same

569

00:31:46,999 --> 00:31:42,690

situation here

570

00:31:50,299 --> 00:31:47,009

one of our best subjects had just a

571

00:31:51,680 --> 00:31:50,309

little bit of muscle tension we're

572

00:31:55,879 --> 00:31:51,690

getting something that looks like maybe

573

00:31:57,440 --> 00:31:55,889

he has gamma activation occipital e with

574

00:31:59,960 --> 00:31:57,450

a little bit of stuff on the top of the

575

00:32:01,800 --> 00:31:59,970

head similar to what was seen in the VIP

576

00:32:05,650 --> 00:32:01,810

aasana meditate

577

00:32:10,690 --> 00:32:05,660

but we don't know is that stuff muscle

578

00:32:15,520 --> 00:32:10,700

or is it EEG now we do have a capability

579

00:32:18,490 --> 00:32:15,530

to do combined imaging we could put a

580

00:32:23,530 --> 00:32:18,500

person in an MRI scanner and run 64

581

00:32:32,460 --> 00:32:23,540

channels of EEG however you think about

582

00:32:38,470 --> 00:32:35,350

it's not first of all it's not a very

583

00:32:41,440 --> 00:32:38,480

friendly environment for a PK agent to

584

00:32:44,170 --> 00:32:41,450

work in but secondly I have to admit if

585

00:32:47,860 --> 00:32:44,180

I were the PK agent and I was trying to

586

00:32:49,210 --> 00:32:47,870

do PK and I was in an MRI scanner you

587

00:32:52,330 --> 00:32:49,220

know I would be a little bit worried

588

00:32:55,100 --> 00:32:52,340

about maybe some of that PK getting

589

00:33:01,200 --> 00:32:55,110

loose and doing something to the scanner

590

00:33:10,710 --> 00:33:07,720

so anyway that's about where it stands

591

00:33:13,270 --> 00:33:10,720

today I think one of the most

592

00:33:17,350 --> 00:33:13,280

interesting things that has fallen out

593

00:33:22,330 --> 00:33:17,360

of this pilot study for us is what we're

594

00:33:24,520 --> 00:33:22,340

up against in terms of our participants

595

00:33:27,090 --> 00:33:24,530

our participants and what they're doing

596

00:33:29,530 --> 00:33:27,100

well we've got them wired up to eg

597

00:33:31,710 --> 00:33:29,540

several of the other yuji's I've just

598

00:33:35,500 --> 00:33:31,720

started to look at from our pilot study

599

00:33:38,130 --> 00:33:35,510

we're nowhere near as good as Joe's I

600

00:33:40,420 --> 00:33:38,140

mean folks are in there and they're just

601
00:33:42,310 --> 00:33:40,430
you know they're doing all kinds of

602
00:33:44,830 --> 00:33:42,320
stuff they're moving their hands they're

603
00:33:47,920 --> 00:33:44,840
grimacing they're doing anything they

604
00:33:49,900 --> 00:33:47,930
can to get that P case to get that tone

605
00:33:53,260 --> 00:33:49,910
to bounce up alarm at the end of the

606
00:33:56,350 --> 00:33:53,270
trial when that happens we have to throw

607
00:33:58,840 --> 00:33:56,360
data up you know if there's gross

608
00:34:01,690 --> 00:33:58,850
artifact we have to throw it out and I

609
00:34:03,820 --> 00:34:01,700
have to admit as the experimenter who's

610
00:34:08,530 --> 00:34:03,830
gone to great effort to get that data

611
00:34:12,040 --> 00:34:08,540
I don't want to throw it out but but

612
00:34:14,440 --> 00:34:12,050
we're faced with that dilemma so moving

613
00:34:17,620 --> 00:34:14,450

forward in the study as we go into more

614

00:34:21,250 --> 00:34:17,630

formal studies one of the first things

615

00:34:23,230 --> 00:34:21,260

we're doing is we're sort of upping the

616

00:34:23,830 --> 00:34:23,240

ante in terms of how you get into the

617

00:34:29,919 --> 00:34:23,840

study

618

00:34:33,730 --> 00:34:29,929

were enrolled based on simply their

619

00:34:36,340 --> 00:34:33,740

interests in pique so some of them had

620

00:34:38,580 --> 00:34:36,350

experiences others had some we're

621

00:34:42,490 --> 00:34:38,590

professionals like Joe others were just

622

00:34:44,650 --> 00:34:42,500

I'm interested in it going forward we're

623

00:34:46,870 --> 00:34:44,660

only going to enroll people in the

624

00:34:50,550 --> 00:34:46,880

formal part of the study if they've

625

00:34:53,980 --> 00:34:50,560

actually produced say hits and a

626

00:34:58,090 --> 00:34:53,990

screening trial that we've run or if

627

00:35:00,250 --> 00:34:58,100

they can effect hits on the system

628

00:35:02,560 --> 00:35:00,260

remotely I didn't mention but we've been

629

00:35:05,560 --> 00:35:02,570

running remote trials with the system as

630

00:35:09,130 --> 00:35:05,570

well we've got set up on skype so a

631

00:35:12,580 --> 00:35:09,140

person can see a real-time display of

632

00:35:16,150 --> 00:35:12,590

the raw signals and they get to hear the

633

00:35:19,690 --> 00:35:16,160

feedback as well and we've actually had

634

00:35:25,330 --> 00:35:19,700

people get significant hits with the

635

00:35:27,150 --> 00:35:25,340

system from 2rm 50 miles away which yes

636

00:35:32,560 --> 00:35:27,160

I mean it kind of blew my mind to but

637

00:35:35,860 --> 00:35:32,570

there it is so again the plea if you

638

00:35:38,050 --> 00:35:35,870

know of anybody that's routinely bending

639

00:35:40,690 --> 00:35:38,060

spoons and wants to engage in scientific

640

00:35:43,240 --> 00:35:40,700

study if the table slab in

641

00:35:47,710 --> 00:35:43,250

Charlottesville please direct them our

642

00:35:56,570 --> 00:35:47,720

way and I think I'll I got three minutes

643

00:36:04,050 --> 00:36:00,690

okay there's a phenomenon called torsion

644

00:36:06,330 --> 00:36:04,060

energies and guys like plot Swanson

645

00:36:08,970 --> 00:36:06,340

thinks that that's subtle energy torsion

646

00:36:12,240 --> 00:36:08,980

chi are all the same thing and there are

647

00:36:14,370 --> 00:36:12,250

things such as torsion generators might

648

00:36:16,290 --> 00:36:14,380

be interesting to see what happens

649

00:36:18,210 --> 00:36:16,300

it's Agard - you're set up with

650

00:36:19,440 --> 00:36:18,220

something of that nature so I just

651
00:36:22,700 --> 00:36:19,450
thought it was interesting because

652
00:36:24,870 --> 00:36:22,710
there's maybe some similarities and I

653
00:36:27,330 --> 00:36:24,880
know Allison knows some people who've

654
00:36:29,610 --> 00:36:27,340
been spoons no it's it's interesting

655
00:36:32,310 --> 00:36:29,620
that you bring that up because I have

656
00:36:34,860 --> 00:36:32,320
read Claude's book about torsionally I

657
00:36:37,410 --> 00:36:34,870
did find it very interesting and I

658
00:36:40,560 --> 00:36:37,420
actually visited Claude a couple of

659
00:36:42,360 --> 00:36:40,570
years ago with that black box and he set

660
00:36:45,720 --> 00:36:42,370
up with one of his torsion generators

661
00:36:47,520 --> 00:36:45,730
and we ran a series of control trials

662
00:36:51,480 --> 00:36:47,530
and and we actually did come up with

663
00:36:56,310 --> 00:36:51,490

more events showing up when that torsion

664

00:36:59,490 --> 00:36:56,320

generator was I was a big wheel that was

665

00:37:01,920 --> 00:36:59,500

spinning at high speed the thing that

666

00:37:03,480 --> 00:37:01,930

confused me about it was I couldn't tell

667

00:37:05,940 --> 00:37:03,490

since Claude and I were both sitting

668

00:37:08,340 --> 00:37:05,950

there and we knew the conditions of the

669

00:37:10,650 --> 00:37:08,350

trial we weren't blind whether it was

670

00:37:11,850 --> 00:37:10,660

just her inadvertent experiment or

671

00:37:17,010 --> 00:37:11,860

effect or whether it was actually a

672

00:37:19,020 --> 00:37:17,020

torsion generator when you describe the

673

00:37:23,340 --> 00:37:19,030

initial development of your circuit and

674

00:37:28,230 --> 00:37:23,350

I explained how you were seeing what you

675

00:37:30,030 --> 00:37:28,240

had taken to be a rant random errors of

676

00:37:31,200 --> 00:37:30,040

some sort until you notice that they

677

00:37:34,800 --> 00:37:31,210

seemed to be happening more frequently

678

00:37:37,380 --> 00:37:34,810

during intentional or healing efforts

679

00:37:42,000 --> 00:37:37,390

I had to restrain myself from getting up

680

00:37:43,050 --> 00:37:42,010

and dancing because back in 2008 at the

681

00:37:45,450 --> 00:37:43,060

track

682

00:37:48,090 --> 00:37:45,460

parrot a conference on the future of

683

00:37:50,690 --> 00:37:48,100

parapsychology one of the things I

684

00:37:53,930 --> 00:37:50,700

pointed out in my presentation is that

685

00:37:56,390 --> 00:37:53,940

off-the-shelf electronic components are

686

00:37:59,880 --> 00:37:56,400

automatically going to be inadvertently

687

00:38:02,580 --> 00:37:59,890

SCI hardened because electrical

688

00:38:05,580 --> 00:38:02,590

engineers don't track their thoughts and

689

00:38:08,850 --> 00:38:05,590

emotions and if something is responding

690

00:38:11,940 --> 00:38:08,860

to mental effects under development that

691

00:38:13,470 --> 00:38:11,950

will be classed as intermittent faults

692

00:38:15,600 --> 00:38:13,480

and they'll do the their best to

693

00:38:18,210 --> 00:38:15,610

engineer them out and if they can't get

694

00:38:20,910 --> 00:38:18,220

rid of them they won't market it so I'd

695

00:38:24,780 --> 00:38:20,920

like to express my gratitude that you

696

00:38:26,970 --> 00:38:24,790

were an incompetent skillful electrical

697

00:38:29,040 --> 00:38:26,980

engineer who also knew about SCI

698

00:38:32,810 --> 00:38:29,050

phenomena and was actively working for

699

00:38:32,820 --> 00:38:49,680

[Applause]

700

00:38:54,030 --> 00:38:52,230

a colleague of mine Bogg neurology from

701
00:38:56,610 --> 00:38:54,040
the IEC has recently done some pilot

702
00:38:58,950 --> 00:38:56,620
work in fMRI producing a bio energetic

703
00:39:00,270 --> 00:38:58,960
field mobilizing bio energies or chi or

704
00:39:02,490 --> 00:39:00,280
prana wherever you want to call it and

705
00:39:06,030 --> 00:39:02,500
trying to look for the neural correlates

706
00:39:09,060 --> 00:39:06,040
of this and what they found was a lot of

707
00:39:11,190 --> 00:39:09,070
activation outside of the brain which

708
00:39:13,680 --> 00:39:11,200
was suggestive of not brain activity of

709
00:39:15,840 --> 00:39:13,690
course but perhaps bioenergetic you

710
00:39:17,550 --> 00:39:15,850
could say noise in this case they then

711
00:39:18,660 --> 00:39:17,560
went in this scanner with a phantom

712
00:39:20,460 --> 00:39:18,670
which i'm sure you're familiar with and

713
00:39:21,930 --> 00:39:20,470

he exteriorized threw his hands into the

714

00:39:24,210 --> 00:39:21,940

phantom and did like you know block

715

00:39:26,610 --> 00:39:24,220

design exteriorization no exterior is a

716

00:39:30,270 --> 00:39:26,620

ssin and they saw huge huge effects of

717

00:39:32,400 --> 00:39:30,280

this so my thought on this is that

718

00:39:34,290 --> 00:39:32,410

perhaps there's a third alternative not

719

00:39:38,010 --> 00:39:34,300

muscle noise not necessarily neuronal

720

00:39:39,690 --> 00:39:38,020

activity but a bio energetic artifact of

721

00:39:44,730 --> 00:39:39,700

the field that's being produced that

722

00:39:47,340 --> 00:39:44,740

might be conducive for the PK so I

723

00:39:49,620 --> 00:39:47,350

wonder if I don't know if we don't have

724

00:39:53,100 --> 00:39:49,630

a great apparatus to directly measure

725

00:39:55,380 --> 00:39:53,110

bioenergy unfortunately but I think that

726

00:39:56,520 --> 00:39:55,390

that could also be the link between some

727

00:39:57,630 --> 00:39:56,530

these meditators that are

728

00:40:01,020 --> 00:39:57,640

these kind of high-frequency

729

00:40:03,510 --> 00:40:01,030

bioenergetic fields are coherent self

730

00:40:05,550 --> 00:40:03,520

coherent fields that are being read as

731

00:40:07,560 --> 00:40:05,560

as neural activity I just saw John

732

00:40:09,030 --> 00:40:07,570

cruising you're saying going yes we do

733

00:40:13,530 --> 00:40:09,040

he's about to give a talk of it alright

734

00:40:16,020 --> 00:40:13,540

cool thank you thank you hi I was

735

00:40:19,160 --> 00:40:16,030

wondering if you had spoken with I think

736

00:40:23,490 --> 00:40:19,170

it's name is John your advanced PK agent

737

00:40:26,520 --> 00:40:23,500

or Joe not true Joe I was did you speak

738

00:40:28,560 --> 00:40:26,530

with him about how he goes about doing

739

00:40:31,160 --> 00:40:28,570

his PA activity and how it differs from

740

00:40:34,140 --> 00:40:31,170

the other subjects that you worked with

741

00:40:36,420 --> 00:40:34,150

yeah in fact that's a huge subject and

742

00:40:39,240 --> 00:40:36,430

and Joe goes into that and depth in his

743

00:40:41,220 --> 00:40:39,250

courses and I think it just in a

744

00:40:47,880 --> 00:40:41,230

nutshell he's talking about opening the

745

00:40:50,760 --> 00:40:47,890

heart chakra when he does it one other

746

00:40:54,570 --> 00:40:50,770

quick thing about Joe just a quick aside

747

00:40:56,960 --> 00:40:54,580

I have seen him also sure that he and

748

00:40:59,910 --> 00:40:56,970

this goes to the point you were making

749

00:41:04,890 --> 00:40:59,920

he seems to be able to generate very

750

00:41:07,020 --> 00:41:04,900

high voltage voltages on his body now he

751

00:41:09,660 --> 00:41:07,030

does he shows that demonstrates it by

752

00:41:12,030 --> 00:41:09,670

taking a round fluorescent tube and

753

00:41:14,100 --> 00:41:12,040

he'll hold it and flick it and you'll

754

00:41:17,400 --> 00:41:14,110

see the thing light up what person could

755

00:41:19,230 --> 00:41:17,410

say oh that's just static charge but he

756

00:41:21,810 --> 00:41:19,240

showed this to me in a very damp

757

00:41:25,350 --> 00:41:21,820

basement on a very hot damp night there

758

00:41:27,570 --> 00:41:25,360

was no static and he also says that he

759

00:41:31,530 --> 00:41:27,580

can do in a shower with water running on

760

00:41:35,100 --> 00:41:31,540

him and there was a study done at the

761

00:41:36,990 --> 00:41:35,110

Menninger Institute with meditators and

762

00:41:40,290 --> 00:41:37,000

healers they had set up a special

763

00:41:42,630 --> 00:41:40,300

facility with a very insulated chair and

764

00:41:44,220 --> 00:41:42,640

electric field detectors around people

765

00:41:46,650 --> 00:41:44,230

and they were measuring what they

766

00:41:48,960 --> 00:41:46,660

thought was pushing about 80 volts or so

767

00:41:50,820 --> 00:41:48,970

on some people so it's you know it's

768

00:41:52,140 --> 00:41:50,830

possible Joe's generating a high voltage

769

00:41:54,570 --> 00:41:52,150

feel and that's part of the reason we

770

00:41:57,210 --> 00:41:54,580

set these electric field monitors and

771

00:42:01,130 --> 00:41:57,220

whatnot and we're trying to pursue that

772

00:42:05,990 --> 00:42:03,200

yeah I hate to be the skeptic in the

773

00:42:08,329 --> 00:42:06,000

group but uh I'm a member of the

774

00:42:10,279 --> 00:42:08,339

International remote viewing Association

775

00:42:13,190 --> 00:42:10,289

and I have been to all of their meetings

776
00:42:15,620 --> 00:42:13,200
since 2001 with the exception of two and

777
00:42:18,319 --> 00:42:15,630
the first one or two I believe had Jack

778
00:42:21,380 --> 00:42:18,329
Hawke and his spoon bending parties I

779
00:42:23,420 --> 00:42:21,390
was it both of those and then after he

780
00:42:26,450 --> 00:42:23,430
no longer was healthy enough to do that

781
00:42:30,349 --> 00:42:26,460
Lynn Buchanan's all those years I have

782
00:42:32,509 --> 00:42:30,359
never yet witnessed a spoon bending that

783
00:42:34,640 --> 00:42:32,519
I thought was done without just physical

784
00:42:36,769 --> 00:42:34,650
force and I've walked around with my

785
00:42:38,660 --> 00:42:36,779
camera I've looked very carefully I

786
00:42:40,339 --> 00:42:38,670
don't know if I'm just moving in a

787
00:42:42,769 --> 00:42:40,349
different reality than everybody else

788
00:42:45,049 --> 00:42:42,779

you know there are piles of bent spoons

789

00:42:48,319 --> 00:42:45,059

and forks you know in the middle of the

790

00:42:50,210 --> 00:42:48,329

floor but I have yet to witness one now

791

00:42:52,660 --> 00:42:50,220

I know Russell Targ and I think Dean

792

00:42:56,180 --> 00:42:52,670

Radin both have claimed that they had

793

00:42:59,660 --> 00:42:56,190

spoons bent when they were not thinking

794

00:43:01,970 --> 00:42:59,670

hard about it and others but I'd love to

795

00:43:03,980 --> 00:43:01,980

witness one see that that's the

796

00:43:06,170 --> 00:43:03,990

interesting thing about my experience I

797

00:43:07,700 --> 00:43:06,180

would probably be in the same camp as

798

00:43:10,940 --> 00:43:07,710

you except for that little lady with the

799

00:43:13,910 --> 00:43:10,950

steel rod but I actually felt that darn

800

00:43:16,759 --> 00:43:13,920

thing turned into taffy you know I don't

801
00:43:18,380 --> 00:43:16,769
think for a minute I was the PK agent

802
00:43:19,940 --> 00:43:18,390
there's two other people sitting there

803
00:43:22,519 --> 00:43:19,950
chanting along with me

804
00:43:25,279 --> 00:43:22,529
I felt that thing turned into taffy just

805
00:43:27,620 --> 00:43:25,289
briefly and it just almost fell into

806
00:43:31,370 --> 00:43:27,630
place to complete spiral twists on it

807
00:43:33,319 --> 00:43:31,380
and then it got stiff again believer I

808
00:43:40,400 --> 00:43:33,329
think that would make me a believer as

809
00:43:42,740 --> 00:43:40,410
well but it must be a very rare incident

810
00:43:47,599 --> 00:43:42,750
it seems to me that's one of the

811
00:43:49,640 --> 00:43:47,609
problems with this kind of rares a party

812
00:43:52,039 --> 00:43:49,650
with a bunch of secretaries are we done

813
00:43:54,140 --> 00:43:52,049

anyway she said sorry she was the only

814

00:43:57,520 --> 00:43:54,150

one that couldn't bend the spoon so