

Measuring Group Connections: HRV and RNG

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**SOCIETY
FOR
SCIENTIFIC
EXPLORATION**

1
00:00:08,390 --> 00:00:06,470

[Music]

2
00:00:10,470 --> 00:00:08,400

we've all admired the beauty of a grassy

3
00:00:12,390 --> 00:00:10,480

meadow waving in the breeze

4
00:00:13,430 --> 00:00:12,400

no mystery to us how the movement of the

5
00:00:14,950 --> 00:00:13,440

grass

6
00:00:16,390 --> 00:00:14,960

is coordinated

7
00:00:18,310 --> 00:00:16,400

you know that the wind is working its

8
00:00:19,590 --> 00:00:18,320

magic on each of these separate blades

9
00:00:21,429 --> 00:00:19,600

of grass

10
00:00:23,109 --> 00:00:21,439

but if we belong to a primitive culture

11
00:00:24,310 --> 00:00:23,119

that didn't believe in wind what would

12
00:00:26,950 --> 00:00:24,320

we say

13
00:00:29,269 --> 00:00:26,960

after all wind is invisible we don't

14

00:00:31,269 --> 00:00:29,279

believe in intangible forces

15

00:00:33,270 --> 00:00:31,279

this sounds like a silly example but

16

00:00:35,270 --> 00:00:33,280

modern science's attempt to understand

17

00:00:37,270 --> 00:00:35,280

group interconnections is in the same

18

00:00:38,470 --> 00:00:37,280

bind because it doesn't believe in life

19

00:00:40,069 --> 00:00:38,480

energy

20

00:00:42,069 --> 00:00:40,079

so it's important to take a look at this

21

00:00:44,790 --> 00:00:42,079

piece of the puzzle because the answer

22

00:00:51,430 --> 00:00:44,800

to the riddle of human connections is

23

00:00:57,430 --> 00:00:54,150

okay so that's a good example of

24

00:00:59,990 --> 00:00:57,440

group energies and it shows that

25

00:01:01,510 --> 00:01:00,000

the answer is blowing in the wind

26

00:01:02,950 --> 00:01:01,520

so the title of my talk is measuring

27

00:01:05,109 --> 00:01:02,960

group energies and we're going to focus

28

00:01:07,429 --> 00:01:05,119

on heart rate variability and random

29

00:01:09,510 --> 00:01:07,439

number generators

30

00:01:11,510 --> 00:01:09,520

these are topics i came to because of my

31

00:01:13,510 --> 00:01:11,520

interest in energy medicine

32

00:01:15,190 --> 00:01:13,520

as part of the pain management program

33

00:01:17,429 --> 00:01:15,200

team at spaulding rehab hospital in

34

00:01:19,830 --> 00:01:17,439

boston

35

00:01:22,149 --> 00:01:19,840

where we used energy medicine treatments

36

00:01:23,830 --> 00:01:22,159

to treat chronic pain also did some

37

00:01:25,830 --> 00:01:23,840

group work and that showed the power of

38

00:01:28,230 --> 00:01:25,840

group energies what got me fully engaged

39

00:01:30,550 --> 00:01:28,240

in the topic was a sporting event

40

00:01:32,630 --> 00:01:30,560

about 15 years ago when our local team

41

00:01:35,510 --> 00:01:32,640

did phenomenally well and won the world

42

00:01:38,230 --> 00:01:35,520

series and captivated the energies of

43

00:01:41,030 --> 00:01:38,240

everybody in new england i got really

44

00:01:43,429 --> 00:01:41,040

interested in aspects like team

45

00:01:45,350 --> 00:01:43,439

chemistry and fan energy

46

00:01:47,830 --> 00:01:45,360

as illustrations of group energy and

47

00:01:49,830 --> 00:01:47,840

began to study that

48

00:01:52,950 --> 00:01:49,840

and i realized that i had to go back a

49

00:01:54,630 --> 00:01:52,960

ways to find the roots of this topic

50

00:01:56,550 --> 00:01:54,640

with the father of energy medicine in

51
00:01:58,389 --> 00:01:56,560
the west franz anton mesmer his

52
00:02:01,190 --> 00:01:58,399
reputation is mud in conventional

53
00:02:03,190 --> 00:02:01,200
medicine because animal magnetism was

54
00:02:04,630 --> 00:02:03,200
felt to be quackery but

55
00:02:06,950 --> 00:02:04,640
it turns out he was really onto

56
00:02:09,990 --> 00:02:06,960
something so just a quick overview

57
00:02:12,070 --> 00:02:10,000
he he wrote pretty uh extensively about

58
00:02:13,910 --> 00:02:12,080
his work part of his extensive

59
00:02:16,869 --> 00:02:13,920
documentation of his work he developed

60
00:02:18,470 --> 00:02:16,879
27 key principles of mesmerism and it's

61
00:02:21,190 --> 00:02:18,480
interesting how they overlap energy

62
00:02:22,470 --> 00:02:21,200
medicine the subtle connection between

63
00:02:24,550 --> 00:02:22,480

earth and men

64

00:02:26,710 --> 00:02:24,560

the illnesses arising from lack of

65

00:02:28,550 --> 00:02:26,720

equilibrium and its flow

66

00:02:31,110 --> 00:02:28,560

the fact that there are inner channels

67

00:02:32,869 --> 00:02:31,120

that direct this uh fluidium as he

68

00:02:34,869 --> 00:02:32,879

called it and the importance of

69

00:02:36,710 --> 00:02:34,879

provoking uh having everything come to

70

00:02:38,790 --> 00:02:36,720

the surface in a healing crisis to cure

71

00:02:40,309 --> 00:02:38,800

disease this is a

72

00:02:44,070 --> 00:02:40,319

diagram of

73

00:02:46,390 --> 00:02:44,080

a practitioner in process at the time

74

00:02:49,589 --> 00:02:46,400

and this is mesmer at work with his

75

00:02:52,150 --> 00:02:49,599

innovation of a tank of water

76
00:02:54,710 --> 00:02:52,160
that he magnetized himself and then many

77
00:02:56,790 --> 00:02:54,720
people could be connected to it to gain

78
00:02:58,309 --> 00:02:56,800
the benefits and this is this is the

79
00:02:59,830 --> 00:02:58,319
scene that really got him in trouble

80
00:03:01,350 --> 00:02:59,840
with the medical establishment at the

81
00:03:03,430 --> 00:03:01,360
time because you can see he could treat

82
00:03:05,830 --> 00:03:03,440
20 or 30 people at once

83
00:03:07,990 --> 00:03:05,840
and as he did so

84
00:03:10,229 --> 00:03:08,000
waves of emotion would spread across the

85
00:03:12,869 --> 00:03:10,239
room with laughter and fainting and what

86
00:03:14,790 --> 00:03:12,879
have you as a group phenomenon but the

87
00:03:16,710 --> 00:03:14,800
medical establishment wasn't pleased

88
00:03:19,270 --> 00:03:16,720

that he was taking so many of the

89

00:03:21,430 --> 00:03:19,280

wealthy patients in paris away so

90

00:03:24,309 --> 00:03:21,440

they convened the royal commission

91

00:03:26,949 --> 00:03:24,319

to investigate him and to

92

00:03:28,550 --> 00:03:26,959

hopefully discredit him uh the eminent

93

00:03:32,070 --> 00:03:28,560

scientists of the day were part of the

94

00:03:34,390 --> 00:03:32,080

commission benjamin franklin

95

00:03:36,149 --> 00:03:34,400

ambassador france lavoisier the

96

00:03:38,869 --> 00:03:36,159

discoverer of oxygen and the french

97

00:03:40,869 --> 00:03:38,879

surgeon guillotine who is actually a

98

00:03:43,509 --> 00:03:40,879

pioneer in mind-body medicine because

99

00:03:45,589 --> 00:03:43,519

the device that's named after him proved

100

00:03:47,190 --> 00:03:45,599

conclusively that there are adverse

101
00:03:49,509 --> 00:03:47,200
health effects if you separate the mind

102
00:03:50,229 --> 00:03:49,519
from the body

103
00:03:52,229 --> 00:03:50,239
um

104
00:03:54,630 --> 00:03:52,239
this team did set up the first blinded

105
00:03:57,190 --> 00:03:54,640
experiment in western medicine where

106
00:03:58,550 --> 00:03:57,200
subjects were blindfolded and asked to

107
00:04:00,550 --> 00:03:58,560
say whether they felt they were being

108
00:04:03,110 --> 00:04:00,560
magnetized or not the results were

109
00:04:06,149 --> 00:04:03,120
negative but because this was because of

110
00:04:09,110 --> 00:04:06,159
a very significant experimenter effect

111
00:04:11,190 --> 00:04:09,120
where the main magnetizer was a skeptic

112
00:04:13,670 --> 00:04:11,200
a former student of

113
00:04:15,589 --> 00:04:13,680

mesmer who was eager to debunk him there

114

00:04:19,430 --> 00:04:15,599

was also biased media and many of the

115

00:04:20,870 --> 00:04:19,440

same phenomena that we see nowadays with

116

00:04:22,629 --> 00:04:20,880

energy medicine

117

00:04:24,550 --> 00:04:22,639

so the end result was that mesmer was

118

00:04:25,909 --> 00:04:24,560

literally excommunicated and died in

119

00:04:28,310 --> 00:04:25,919

exile

120

00:04:30,629 --> 00:04:28,320

uh this is benjamin franklin with a

121

00:04:32,950 --> 00:04:30,639

device called the glass harmonica he

122

00:04:36,150 --> 00:04:32,960

created the background music for the

123

00:04:37,909 --> 00:04:36,160

settings when mesmer uh

124

00:04:39,430 --> 00:04:37,919

gave his performances and in the

125

00:04:41,189 --> 00:04:39,440

question and answer i'll actually play

126
00:04:42,469 --> 00:04:41,199
an audio clip because it's quite

127
00:04:44,469 --> 00:04:42,479
fascinating

128
00:04:47,590 --> 00:04:44,479
mesmerism was used successfully in

129
00:04:48,629 --> 00:04:47,600
surgery for surgical anesthesia and by

130
00:04:51,670 --> 00:04:48,639
this uh

131
00:04:54,629 --> 00:04:51,680
naval surgeon in uh from scotland

132
00:04:56,629 --> 00:04:54,639
and uh it was making quite a few inroads

133
00:04:59,430 --> 00:04:56,639
in europe until

134
00:05:01,510 --> 00:04:59,440
in boston in 1846 the famous first

135
00:05:05,430 --> 00:05:01,520
surgical procedure done under ether

136
00:05:09,909 --> 00:05:07,270
i had the good fortune of giving a

137
00:05:11,110 --> 00:05:09,919
lecture in the exact same room the same

138
00:05:14,790 --> 00:05:11,120

etherdome

139

00:05:17,029 --> 00:05:14,800

um about 10 years ago about mesmer and

140

00:05:19,350 --> 00:05:17,039

pain management and i felt like i was

141

00:05:21,590 --> 00:05:19,360

reclaiming the territory for for energy

142

00:05:23,189 --> 00:05:21,600

and energy medicine so what about the

143

00:05:25,029 --> 00:05:23,199

science

144

00:05:27,270 --> 00:05:25,039

you know about the work of institute of

145

00:05:29,510 --> 00:05:27,280

heart math and heart rate variability

146

00:05:31,510 --> 00:05:29,520

the part is not a metronome and the

147

00:05:34,390 --> 00:05:31,520

interval between beats varies according

148

00:05:36,710 --> 00:05:34,400

to your emotional state so the pattern

149

00:05:38,629 --> 00:05:36,720

with frustration is very erratic and

150

00:05:42,310 --> 00:05:38,639

irregular whereas emotions like

151
00:05:45,189 --> 00:05:42,320
appreciation generate a sine wave uh

152
00:05:46,390 --> 00:05:45,199
rhythm of hiv

153
00:05:48,070 --> 00:05:46,400
um

154
00:05:50,790 --> 00:05:48,080
the heart is known to generate the

155
00:05:53,110 --> 00:05:50,800
strongest magnetic field of any

156
00:05:55,510 --> 00:05:53,120
organ in the body so literally there's a

157
00:05:58,230 --> 00:05:55,520
modern form of animal magnetism with the

158
00:06:01,029 --> 00:05:58,240
electromagnetic field of the heart

159
00:06:02,870 --> 00:06:01,039
and in their model people can interact

160
00:06:04,629 --> 00:06:02,880
through these uh

161
00:06:06,629 --> 00:06:04,639
fields that spread as much as six feet

162
00:06:09,830 --> 00:06:06,639
apart so i was a guinea pig in this

163
00:06:11,749 --> 00:06:09,840

experiment at the heart math institute

164

00:06:14,710 --> 00:06:11,759

um i'm the blindfolded person in the

165

00:06:17,670 --> 00:06:14,720

corner there and i had been taking a few

166

00:06:20,469 --> 00:06:17,680

moments to get into my relaxed uh

167

00:06:22,469 --> 00:06:20,479

baseline state hooked up to a

168

00:06:25,590 --> 00:06:22,479

hooked up to the monitor here

169

00:06:27,350 --> 00:06:25,600

and then at some point uh unknown to me

170

00:06:29,749 --> 00:06:27,360

four practitioners came into the room

171

00:06:31,670 --> 00:06:29,759

and sat behind me and on a signal from

172

00:06:33,990 --> 00:06:31,680

uh roland mccrady they

173

00:06:36,550 --> 00:06:34,000

began their heart math meditation to see

174

00:06:38,550 --> 00:06:36,560

what effect if any it would have on me

175

00:06:40,710 --> 00:06:38,560

and my recorded rhythms

176

00:06:42,870 --> 00:06:40,720

and much to our surprise or not

177

00:06:45,430 --> 00:06:42,880

surprised actually it was a profound

178

00:06:47,029 --> 00:06:45,440

impact so my baseline heart rate was

179

00:06:49,350 --> 00:06:47,039

fairly irregular

180

00:06:51,589 --> 00:06:49,360

they came in and then i entered the sine

181

00:06:54,870 --> 00:06:51,599

wave pattern which their algorithm

182

00:06:56,710 --> 00:06:54,880

converts into heart coherence before the

183

00:06:58,390 --> 00:06:56,720

entry here i was a very low level of

184

00:07:00,309 --> 00:06:58,400

what i was at what role and called

185

00:07:02,790 --> 00:07:00,319

incoherence but as soon as they started

186

00:07:04,790 --> 00:07:02,800

meditating literally within seconds

187

00:07:06,710 --> 00:07:04,800

my heart coherence rate went higher and

188

00:07:09,270 --> 00:07:06,720

higher and higher so there was some very

189

00:07:11,270 --> 00:07:09,280

profound effect happening the question

190

00:07:13,270 --> 00:07:11,280

is what was it what was the nature of

191

00:07:14,950 --> 00:07:13,280

that interaction so this is the paper

192

00:07:16,710 --> 00:07:14,960

that i wrote about it the references

193

00:07:18,230 --> 00:07:16,720

will be at the end

194

00:07:20,710 --> 00:07:18,240

and there are some questions that this

195

00:07:22,469 --> 00:07:20,720

particular protocol couldn't answer

196

00:07:24,870 --> 00:07:22,479

was it simply electromagnetic

197

00:07:26,870 --> 00:07:24,880

interactions and that's if so um we

198

00:07:28,550 --> 00:07:26,880

could screen that out with the faraday

199

00:07:30,629 --> 00:07:28,560

cage for the electrical component and

200

00:07:33,110 --> 00:07:30,639

new metal for the magnetic component if

201
00:07:35,029 --> 00:07:33,120
there was anything etheric scalar

202
00:07:36,550 --> 00:07:35,039
quantum what have you

203
00:07:37,589 --> 00:07:36,560
that would still be

204
00:07:39,830 --> 00:07:37,599
effective

205
00:07:41,510 --> 00:07:39,840
despite these screens

206
00:07:43,189 --> 00:07:41,520
we did need a more effective sensory

207
00:07:44,469 --> 00:07:43,199
blockade because i could feel the air

208
00:07:45,830 --> 00:07:44,479
movement when they entered the room and

209
00:07:47,990 --> 00:07:45,840
that was why there was that initial

210
00:07:50,230 --> 00:07:48,000
spike but i still couldn't generate

211
00:07:51,830 --> 00:07:50,240
heart coherence voluntarily

212
00:07:53,670 --> 00:07:51,840
physical distancing would be important

213
00:07:55,670 --> 00:07:53,680

to measure because there may or may not

214

00:07:58,790 --> 00:07:55,680

be an inverse square effect from the

215

00:08:00,390 --> 00:07:58,800

known physical forces and we were also

216

00:08:02,390 --> 00:08:00,400

not correlating with the earth's

217

00:08:04,629 --> 00:08:02,400

magnetic field fluctuations as the heart

218

00:08:05,670 --> 00:08:04,639

math people have gone on to do if you

219

00:08:07,990 --> 00:08:05,680

have any

220

00:08:09,749 --> 00:08:08,000

suggestions or ways that you might

221

00:08:11,270 --> 00:08:09,759

pursue this very simple

222

00:08:14,150 --> 00:08:11,280

procedure by all means you can talk

223

00:08:16,150 --> 00:08:14,160

about that in the q a

224

00:08:17,830 --> 00:08:16,160

so most of you have experienced

225

00:08:18,950 --> 00:08:17,840

the power of group energies whether it's

226

00:08:23,110 --> 00:08:18,960

in a

227

00:08:25,270 --> 00:08:23,120

meditation retreat or a musical event um

228

00:08:28,150 --> 00:08:25,280

just for those who may be wondering that

229

00:08:30,150 --> 00:08:28,160

is not me unfortunately

230

00:08:32,070 --> 00:08:30,160

a political event there are many ways to

231

00:08:33,350 --> 00:08:32,080

generate my energy

232

00:08:36,469 --> 00:08:33,360

and

233

00:08:42,230 --> 00:08:36,479

this is one extremely vivid example from

234

00:08:47,190 --> 00:08:45,110

it looks like an organism doesn't it

235

00:08:48,949 --> 00:08:47,200

yet modern analytic science tries to

236

00:08:51,750 --> 00:08:48,959

break it down with computer modeling of

237

00:08:54,389 --> 00:08:51,760

how each individual bird is following

238

00:08:57,030 --> 00:08:54,399

the example of a leader but this is

239

00:08:58,870 --> 00:08:57,040

really where rupert sheldrake's morphic

240

00:09:01,590 --> 00:08:58,880

fields comes into play because there's

241

00:09:06,829 --> 00:09:01,600

some higher organizing principle at work

242

00:09:10,550 --> 00:09:09,110

interactions so if birds can be so

243

00:09:12,389 --> 00:09:10,560

coordinated what happens when human

244

00:09:14,630 --> 00:09:12,399

beings come into that kind of alignment

245

00:09:16,550 --> 00:09:14,640

like for example at a baseball game

246

00:09:17,590 --> 00:09:16,560

well it turns out that hollywood has

247

00:09:20,070 --> 00:09:17,600

been in

248

00:09:21,670 --> 00:09:20,080

investigating random number generators

249

00:09:23,110 --> 00:09:21,680

um this movie from

250

00:09:25,670 --> 00:09:23,120

20 years ago

251

00:09:27,750 --> 00:09:25,680

the throw of a dice was influenced by

252

00:09:30,710 --> 00:09:27,760

this fellow who was about a walking bad

253

00:09:33,110 --> 00:09:30,720

luck charm hired by the uh casinos to

254

00:09:35,590 --> 00:09:33,120

jinx people on a run

255

00:09:37,269 --> 00:09:35,600

it's a quite cute movie and

256

00:09:40,070 --> 00:09:37,279

complicated when he falls in love and

257

00:09:42,389 --> 00:09:40,080

loses his ability to jinx but

258

00:09:44,470 --> 00:09:42,399

the point was that human intention can

259

00:09:46,389 --> 00:09:44,480

actually affect random events and as we

260

00:09:48,550 --> 00:09:46,399

know from the work of princeton on the

261

00:09:51,110 --> 00:09:48,560

peer lab

262

00:09:54,389 --> 00:09:51,120

a person focusing their attention on a

263

00:09:57,030 --> 00:09:54,399

random process like the

264

00:09:59,269 --> 00:09:57,040

marble cascade can actually influence

265

00:10:01,350 --> 00:09:59,279

physical reality with measurable and

266

00:10:03,670 --> 00:10:01,360

statistically significant shifts in

267

00:10:06,150 --> 00:10:03,680

these supposedly random events

268

00:10:08,069 --> 00:10:06,160

so obviously sports fans think that they

269

00:10:09,910 --> 00:10:08,079

can influence the flight of one ball

270

00:10:11,190 --> 00:10:09,920

rather than the whole cascade of balls

271

00:10:13,350 --> 00:10:11,200

but

272

00:10:17,030 --> 00:10:13,360

it turns out we can measure this so i

273

00:10:18,550 --> 00:10:17,040

took a laptop to fenway park to watch a

274

00:10:20,389 --> 00:10:18,560

ball game with the red sox that was

275

00:10:22,150 --> 00:10:20,399

embedded with a random number generating

276

00:10:24,550 --> 00:10:22,160

software and during the course of the

277

00:10:26,710 --> 00:10:24,560

ball game it spewed out a continuous

278

00:10:28,389 --> 00:10:26,720

stream of ones and zeros basically

279

00:10:30,949 --> 00:10:28,399

flipping a coin thousands of times a

280

00:10:32,389 --> 00:10:30,959

second during the game i was sitting

281

00:10:33,430 --> 00:10:32,399

several hundred feet away from the

282

00:10:35,670 --> 00:10:33,440

computer

283

00:10:37,990 --> 00:10:35,680

while making note of what i thought were

284

00:10:39,910 --> 00:10:38,000

emotionally significant moments in the

285

00:10:42,230 --> 00:10:39,920

game and the question is would there be

286

00:10:43,670 --> 00:10:42,240

correlation between the two data streams

287

00:10:45,590 --> 00:10:43,680

so this is what the data output looked

288

00:10:46,710 --> 00:10:45,600

like and it's pretty much a random

289

00:10:49,910 --> 00:10:46,720

zigzag

290

00:10:51,509 --> 00:10:49,920

the point was between these two uh

291

00:10:54,150 --> 00:10:51,519

standard deviations

292

00:10:56,150 --> 00:10:54,160

it's it's it's a not significant and

293

00:10:58,550 --> 00:10:56,160

expected random deviation

294

00:11:00,150 --> 00:10:58,560

there were a few points where

295

00:11:02,949 --> 00:11:00,160

interesting things happen so the gray

296

00:11:06,150 --> 00:11:02,959

zone is not significant but there were

297

00:11:09,269 --> 00:11:06,160

um seven moments during the game

298

00:11:11,350 --> 00:11:09,279

when the random number generator spiked

299

00:11:13,190 --> 00:11:11,360

and interestingly enough they correlated

300

00:11:15,430 --> 00:11:13,200

with the events that i thought were

301
00:11:16,630 --> 00:11:15,440
statistic were emotionally significant

302
00:11:18,870 --> 00:11:16,640
so for example

303
00:11:21,110 --> 00:11:18,880
when the fans did that chant of the wave

304
00:11:23,670 --> 00:11:21,120
or singing the theme song or the

305
00:11:26,069 --> 00:11:23,680
standing ovation at the end of the game

306
00:11:29,750 --> 00:11:26,079
so here's the statistical analysis there

307
00:11:31,269 --> 00:11:29,760
were 117 moments of data points and 15

308
00:11:33,030 --> 00:11:31,279
of them exceeded the two standard

309
00:11:35,670 --> 00:11:33,040
deviations whereas you'd expect just

310
00:11:38,630 --> 00:11:35,680
five percent or six events but chi

311
00:11:39,990 --> 00:11:38,640
square on that was hugely significant

312
00:11:41,350 --> 00:11:40,000
showing that there was something going

313
00:11:44,150 --> 00:11:41,360

on that was

314

00:11:47,829 --> 00:11:44,160

interactive to a high degree

315

00:11:49,430 --> 00:11:47,839

the highest spike um 3.4 was unusual but

316

00:11:50,550 --> 00:11:49,440

not rare but the key thing the cool

317

00:11:52,629 --> 00:11:50,560

thing was that

318

00:11:54,710 --> 00:11:52,639

what i thought three of the four most

319

00:11:57,350 --> 00:11:54,720

highly significant events that i rated

320

00:11:58,470 --> 00:11:57,360

emotionally came in the same moment as

321

00:12:00,629 --> 00:11:58,480

the highest

322

00:12:02,790 --> 00:12:00,639

random number generator spikes and again

323

00:12:04,870 --> 00:12:02,800

the statistics on that are very highly

324

00:12:06,710 --> 00:12:04,880

significant so something is being

325

00:12:08,629 --> 00:12:06,720

detected

326

00:12:12,310 --> 00:12:08,639

by the computer even though it can't

327

00:12:13,910 --> 00:12:12,320

detect noise or vibration or electrical

328

00:12:15,269 --> 00:12:13,920

input so it's not really clear what's

329

00:12:16,790 --> 00:12:15,279

going on

330

00:12:18,230 --> 00:12:16,800

there was some anomalous data that

331

00:12:19,829 --> 00:12:18,240

didn't fit

332

00:12:21,509 --> 00:12:19,839

some of the highly significant events

333

00:12:24,069 --> 00:12:21,519

didn't correlate with random number

334

00:12:26,710 --> 00:12:24,079

generator spikes the global recordings

335

00:12:28,389 --> 00:12:26,720

that the gcp does global consciousness

336

00:12:30,389 --> 00:12:28,399

project didn't show spikes during the

337

00:12:31,829 --> 00:12:30,399

game and another song also didn't

338

00:12:33,350 --> 00:12:31,839

trigger it so this is a simple

339

00:12:34,470 --> 00:12:33,360

methodology that would be easy to

340

00:12:36,470 --> 00:12:34,480

upgrade

341

00:12:39,030 --> 00:12:36,480

having multiple evaluators during the

342

00:12:42,550 --> 00:12:39,040

game of course recording multiple games

343

00:12:43,990 --> 00:12:42,560

to even out any uh anomalies independent

344

00:12:45,910 --> 00:12:44,000

assessment of the statistical

345

00:12:47,590 --> 00:12:45,920

correlations and checking the crowd

346

00:12:50,069 --> 00:12:47,600

noise to see if it's a confounding

347

00:12:51,750 --> 00:12:50,079

variable or maybe a surrogate marker

348

00:12:53,910 --> 00:12:51,760

although many of the moment key moments

349

00:12:57,430 --> 00:12:53,920

were silent and again shielding the

350

00:13:01,590 --> 00:12:59,110

so there were practical applications

351
00:13:03,190 --> 00:13:01,600
from this research including how you as

352
00:13:05,110 --> 00:13:03,200
an individual could maximize your

353
00:13:07,750 --> 00:13:05,120
energetic impact whether you're

354
00:13:09,910 --> 00:13:07,760
functioning as a fan as a therapist

355
00:13:12,629 --> 00:13:09,920
clinician and just as an earthling who

356
00:13:15,110 --> 00:13:12,639
wants to influence the course of events

357
00:13:17,030 --> 00:13:15,120
and this is all known to well-known

358
00:13:19,269 --> 00:13:17,040
stuff but balancing your body's energy

359
00:13:21,030 --> 00:13:19,279
system and clearing limiting beliefs

360
00:13:22,550 --> 00:13:21,040
focusing on the positives like love and

361
00:13:25,030 --> 00:13:22,560
appreciation

362
00:13:27,509 --> 00:13:25,040
enjoying the experience and singing your

363
00:13:28,389 --> 00:13:27,519

cheers as they say and then finally play

364

00:13:29,590 --> 00:13:28,399

well

365

00:13:31,350 --> 00:13:29,600

so i just want to finish with some

366

00:13:33,110 --> 00:13:31,360

citations a couple of papers that i

367

00:13:37,430 --> 00:13:33,120

wrote

368

00:13:39,430 --> 00:13:37,440

summary of the whole field

369

00:13:41,829 --> 00:13:39,440

and the the random number generator

370

00:13:44,550 --> 00:13:41,839

process is described in detail by roger

371

00:13:46,150 --> 00:13:44,560

nelson in this paper you can you can get

372

00:13:47,750 --> 00:13:46,160

a screen grab of this and look at the

373

00:13:49,910 --> 00:13:47,760

details later

374

00:13:52,310 --> 00:13:49,920

interestingly enough the best summary of

375

00:13:54,629 --> 00:13:52,320

random number generator papers that i've

376

00:13:57,990 --> 00:13:54,639

seen recently is the latest issue of the

377

00:14:00,550 --> 00:13:58,000

jse that this organization

378

00:14:02,389 --> 00:14:00,560

and some resources also you can download

379

00:14:04,629 --> 00:14:02,399

this

380

00:14:05,590 --> 00:14:04,639

the heart math and global consciousness

381

00:14:07,110 --> 00:14:05,600

project

382

00:14:09,110 --> 00:14:07,120

um

383

00:14:11,910 --> 00:14:09,120

if you're interested that those those

384

00:14:14,310 --> 00:14:11,920

two demonstrations were part of a video

385

00:14:16,790 --> 00:14:14,320

documentary that i produced that you can

386

00:14:19,030 --> 00:14:16,800

see the clips of the two demonstrations

387

00:14:21,269 --> 00:14:19,040

at these youtube sites part of a full

388

00:14:23,910 --> 00:14:21,279

documentary that appeared on pbs called

389

00:14:24,949 --> 00:14:23,920

the joy of socks because

390

00:14:27,030 --> 00:14:24,959

and uh

391

00:14:29,750 --> 00:14:27,040

the documentary is available for free at

392

00:14:31,509 --> 00:14:29,760

youtube and the book can be ordered here

393

00:14:33,030 --> 00:14:31,519

and any additional articles that you

394

00:14:34,870 --> 00:14:33,040

might be interested in

395

00:14:35,670 --> 00:14:34,880

are at that research

396

00:14:37,110 --> 00:14:35,680

uh

397

00:14:39,189 --> 00:14:37,120

so i look forward to chatting with you