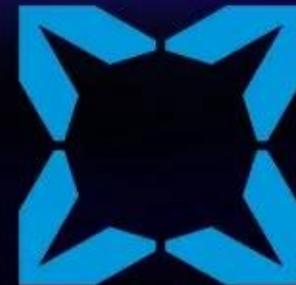


# NEW TECHNOLOGY TO ASSESS THE **HUMAN BIOFIELD**

BEVERLY RUBIK



**SOCIETY  
FOR  
SCIENTIFIC  
EXPLORATION**

1  
00:00:09,799 --> 00:00:07,340  
thank you good morning everybody it's my

2  
00:00:13,549 --> 00:00:09,809  
pleasure to be back with SST and meet

3  
00:00:16,820 --> 00:00:13,559  
new comics and see old ones as well so

4  
00:00:18,080 --> 00:00:16,830  
what really is the biofield this is

5  
00:00:25,790 --> 00:00:18,090  
something I've been working with for

6  
00:00:25,800 --> 00:00:31,780  
[Music]

7  
00:00:39,049 --> 00:00:36,549  
receptor or enzyme substrate couples but

8  
00:00:41,180 --> 00:00:39,059  
until recently people really haven't

9  
00:00:44,209 --> 00:00:41,190  
thought about the energy of the body

10  
00:00:46,700 --> 00:00:44,219  
containing not only useful information

11  
00:00:48,889 --> 00:00:46,710  
but information that is utilized by the

12  
00:00:50,869 --> 00:00:48,899  
organism and that may also be involved

13  
00:00:54,979 --> 00:00:50,879

in bio communication even between

14

00:00:56,779 --> 00:00:54,989

organisms and bio regulation and so I

15

00:00:59,599 --> 00:00:56,789

consider the bio field the active

16

00:01:02,389 --> 00:00:59,609

organizing field of life and that every

17

00:01:05,000 --> 00:01:02,399

organism has a bio field we're going to

18

00:01:08,120 --> 00:01:05,010

talk about the human one today and this

19

00:01:11,450 --> 00:01:08,130

goes back to ancient concepts of a life

20

00:01:14,270 --> 00:01:11,460

force in Elan vital the concept of Chi

21

00:01:16,760 --> 00:01:14,280

in oriental medicine the concept of

22

00:01:18,889 --> 00:01:16,770

prana and Ayurveda or key in Japanese

23

00:01:22,609 --> 00:01:18,899

medicine and actually every indigenous

24

00:01:24,980 --> 00:01:22,619

culture had a word for this vital force

25

00:01:27,289 --> 00:01:24,990

or vital energy but in science it was

26

00:01:30,200 --> 00:01:27,299

thrown out there was an abrupt blow to

27

00:01:32,690 --> 00:01:30,210

vitalistic theory in 1845 with the

28

00:01:35,179 --> 00:01:32,700

synthesis of the first organic chemical

29

00:01:38,420 --> 00:01:35,189

in a laboratory it was the death blow to

30

00:01:42,020 --> 00:01:38,430

vitalism and ever since then it's been a

31

00:01:44,240 --> 00:01:42,030

mechanistic view biology living systems

32

00:01:46,700 --> 00:01:44,250

are nothing but a bag of biomolecules

33

00:01:49,459 --> 00:01:46,710

largely and elucidating those

34

00:01:52,399 --> 00:01:49,469

biomolecules became the game of biology

35

00:01:56,090 --> 00:01:52,409

but we still have concepts of vital

36

00:01:58,010 --> 00:01:56,100

force life energy etc and most of our

37

00:01:59,630 --> 00:01:58,020

alternative and complementary medicines

38

00:02:02,980 --> 00:01:59,640

and now called integrative therapies

39

00:02:05,450 --> 00:02:02,990

such as chiropractic osteopathic

40

00:02:08,779 --> 00:02:05,460

medicine and there are many other

41

00:02:11,750 --> 00:02:08,789

medical modalities that hold to this and

42

00:02:14,000 --> 00:02:11,760

that actually work toward enhancing the

43

00:02:15,860 --> 00:02:14,010

bio field and we have a whole range of

44

00:02:17,820 --> 00:02:15,870

so-called bio field therapies and

45

00:02:20,370 --> 00:02:17,830

complementary medicine as well

46

00:02:22,950 --> 00:02:20,380

so this is really the biophysics of the

47

00:02:25,290 --> 00:02:22,960

energy fields of life and that energy

48

00:02:28,980 --> 00:02:25,300

feels both internal to the body and

49

00:02:32,550 --> 00:02:28,990

external maybe fundamental fundamental

50

00:02:35,280 --> 00:02:32,560

to life and that the bio field is an

51

00:02:37,950 --> 00:02:35,290

active organizer involved in bio

52

00:02:40,680 --> 00:02:37,960

regulation and bio communication and I

53

00:02:43,350 --> 00:02:40,690

wrote about this first in 2002 and the

54

00:02:45,090 --> 00:02:43,360

bio field hypothesis but I'm standing on

55

00:02:47,700 --> 00:02:45,100

the shoulders of giants because there

56

00:02:49,710 --> 00:02:47,710

were many who gave voice to it calling

57

00:02:52,550 --> 00:02:49,720

it different things electrodynamic field

58

00:02:55,710 --> 00:02:52,560

of life and via the vital force

59

00:02:57,450 --> 00:02:55,720

centuries ago today we think about the

60

00:02:59,690 --> 00:02:57,460

bio field as being composed of

61

00:03:02,670 --> 00:02:59,700

conventional electric magnetic

62

00:03:05,510 --> 00:03:02,680

electromagnetic acoustic and possibly

63

00:03:09,930 --> 00:03:05,520

more subtle energy fields that go beyond

64

00:03:11,940 --> 00:03:09,940

conventional concepts of science now I

65

00:03:15,030 --> 00:03:11,950

think about the bio field as a very

66

00:03:16,770 --> 00:03:15,040

complex dynamic standing wave pattern

67

00:03:20,010 --> 00:03:16,780

and I'm showing you here the beautiful

68

00:03:22,920 --> 00:03:20,020

art by Alex gray who kind of visualizes

69

00:03:25,050 --> 00:03:22,930

as an artist how I think about the bio

70

00:03:27,170 --> 00:03:25,060

field as a scientist but of course

71

00:03:30,390 --> 00:03:27,180

living systems are far from equilibrium

72

00:03:33,510 --> 00:03:30,400

so we're talking about nonlinear dynamic

73

00:03:36,120 --> 00:03:33,520

energy systems and there's numerous

74

00:03:39,930 --> 00:03:36,130

emitters within the living system from

75

00:03:41,670 --> 00:03:39,940

the level of ions moving charges in the

76

00:03:43,560 --> 00:03:41,680

body of course give rise to magnetic

77

00:03:46,760 --> 00:03:43,570

fields that's conventional physics and

78

00:03:50,580 --> 00:03:46,770

then we have emitters at the level of

79

00:03:52,640 --> 00:03:50,590

tissues organs and whole systems the

80

00:03:55,920 --> 00:03:52,650

brain for example in the heart and

81

00:03:58,140 --> 00:03:55,930

probably the human bio field may be the

82

00:04:01,050 --> 00:03:58,150

most complex dynamical which means

83

00:04:04,470 --> 00:04:01,060

changing energy field that we know of at

84

00:04:06,479 --> 00:04:04,480

least on earth so there's certainly

85

00:04:08,190 --> 00:04:06,489

useful information in the bio field and

86

00:04:10,050 --> 00:04:08,200

part of the bio field is already well

87

00:04:12,990 --> 00:04:10,060

known and utilized in conventional

88

00:04:15,570 --> 00:04:13,000

medicine in the electroencephalogram and

89

00:04:17,849 --> 00:04:15,580

the electrocardiogram and the magnetic

90

00:04:21,270 --> 00:04:17,859

equivalents of them and more recently in

91

00:04:23,130 --> 00:04:21,280

thermography to visualize inflammation

92

00:04:25,550 --> 00:04:23,140

and tissues for example breast

93

00:04:28,890 --> 00:04:25,560

thermography may detect hot spots

94

00:04:30,820 --> 00:04:28,900

related to cancer or abnormalities in

95

00:04:33,280 --> 00:04:30,830

the tissues so it gives us a

96

00:04:35,860 --> 00:04:33,290

status as well as a medical diagnosis

97

00:04:37,450 --> 00:04:35,870

but wait there's more there's much more

98

00:04:40,060 --> 00:04:37,460

to the biofield than conventional

99

00:04:42,990 --> 00:04:40,070

medicine has embraced and that's what

100

00:04:47,230 --> 00:04:43,000

I'm talking about in particular today so

101  
00:04:49,510 --> 00:04:47,240  
there was a a a window of opportunity at

102  
00:04:52,120 --> 00:04:49,520  
the US National Institutes of Health to

103  
00:04:53,530 --> 00:04:52,130  
study the biofield the other aspects of

104  
00:04:56,320 --> 00:04:53,540  
the biofield the more unconventional

105  
00:04:58,680 --> 00:04:56,330  
aspects I was part of a formative

106  
00:05:01,510 --> 00:04:58,690  
committee back in the early 90s and the

107  
00:05:04,330 --> 00:05:01,520  
office of alternative medicine that

108  
00:05:06,160 --> 00:05:04,340  
hosted several conferences to basically

109  
00:05:08,710 --> 00:05:06,170  
map alternative and complementary

110  
00:05:11,530 --> 00:05:08,720  
medicine and I led the group that formed

111  
00:05:14,020 --> 00:05:11,540  
the concept of bio field to help us

112  
00:05:16,600 --> 00:05:14,030  
understand manual healing energy healing

113  
00:05:18,610 --> 00:05:16,610

modalities such as Reiki therapeutic

114

00:05:21,550 --> 00:05:18,620

touch Healing Touch quantum touch and

115

00:05:23,470 --> 00:05:21,560

there's a plethora of these today many

116

00:05:25,840 --> 00:05:23,480

numerous practitioners all over the

117

00:05:28,270 --> 00:05:25,850

world doing laying out of hands are

118

00:05:30,520 --> 00:05:28,280

working with hands in the bio field or

119

00:05:32,920 --> 00:05:30,530

even sending distant healing and some of

120

00:05:35,530 --> 00:05:32,930

these modalities so we wrote a chapter

121

00:05:37,840 --> 00:05:35,540

in a book published by NIH called

122

00:05:39,820 --> 00:05:37,850

alternative medicine expanding medical

123

00:05:42,610 --> 00:05:39,830

horizons that was published by the US

124

00:05:45,250 --> 00:05:42,620

Government Printing Office in 1995 and

125

00:05:47,020 --> 00:05:45,260

we made it an official medical subject

126

00:05:50,230 --> 00:05:47,030

heading at the National Library of

127

00:05:52,510 --> 00:05:50,240

Medicine in 1996 and that was important

128

00:05:54,550 --> 00:05:52,520

because it was before Google and in

129

00:05:56,770 --> 00:05:54,560

order to search for this as a scientific

130

00:05:59,320 --> 00:05:56,780

term you needed to go to the National

131

00:06:01,690 --> 00:05:59,330

Library of Medicine databases PubMed com

132

00:06:04,510 --> 00:06:01,700

so it's there it's an official medical

133

00:06:06,520 --> 00:06:04,520

subject heading and in 1999 NIH

134

00:06:09,160 --> 00:06:06,530

requested grant proposals for the first

135

00:06:11,740 --> 00:06:09,170

time on bio field science and there was

136

00:06:13,840 --> 00:06:11,750

quite a delay but finally NIH awarded

137

00:06:15,760 --> 00:06:13,850

grants in this subject for frontier

138

00:06:17,620 --> 00:06:15,770

medicine and bio field science and for

139

00:06:20,170 --> 00:06:17,630

Center grants throughout the United

140

00:06:22,680 --> 00:06:20,180

States were awarded and successfully

141

00:06:25,750 --> 00:06:22,690

completed and then I'm sorry to say that

142

00:06:28,270 --> 00:06:25,760

this office and NIH as a whole dropped

143

00:06:30,490 --> 00:06:28,280

the ball and failed to stay the

144

00:06:34,090 --> 00:06:30,500

leadership organization assuring this

145

00:06:36,820 --> 00:06:34,100

field forward but nonetheless bio field

146

00:06:39,520 --> 00:06:36,830

science continues at a lower level we

147

00:06:41,800 --> 00:06:39,530

don't have the benefit of a leadership

148

00:06:43,830 --> 00:06:41,810

organization in the government or any

149

00:06:46,379 --> 00:06:43,840

outstanding foundation that I'm aware

150

00:06:49,350 --> 00:06:46,389

uttering this along but we have an

151

00:06:51,570 --> 00:06:49,360

energy view of life that really is

152

00:06:53,580 --> 00:06:51,580

complementary to the particle view of

153

00:06:55,140 --> 00:06:53,590

life and of course we have the principle

154

00:06:57,990 --> 00:06:55,150

of complementarity that comes from

155

00:06:59,760 --> 00:06:58,000

physics whereby light as seen as both a

156

00:07:02,670 --> 00:06:59,770

particle wave that the dualistic nature

157

00:07:05,400 --> 00:07:02,680

of matter and energy is well accepted

158

00:07:07,379 --> 00:07:05,410

that you can't hold one over the other

159

00:07:10,140 --> 00:07:07,389

that it depends on how you look at it

160

00:07:12,930 --> 00:07:10,150

the questions that you ask and so yes

161

00:07:14,580 --> 00:07:12,940

indeed life is biomolecular and there's

162

00:07:16,620 --> 00:07:14,590

a lot of information to be gained by

163

00:07:20,190 --> 00:07:16,630

studying that but on the other hand life

164

00:07:23,610 --> 00:07:20,200

is also a wave a wave-like form that

165

00:07:25,379 --> 00:07:23,620

contains bio information as well held in

166

00:07:27,540 --> 00:07:25,389

the field through the modulation through

167

00:07:30,120 --> 00:07:27,550

principles of resonance and entrainment

168

00:07:32,430 --> 00:07:30,130

and this may be a much faster

169

00:07:35,159 --> 00:07:32,440

communication system within the organism

170

00:07:37,950 --> 00:07:35,169

because it can travel close to the speed

171

00:07:40,860 --> 00:07:37,960

of light whereas of course molecules are

172

00:07:43,440 --> 00:07:40,870

slow and so there's actually evidence

173

00:07:46,890 --> 00:07:43,450

for communication that does travel

174

00:07:50,640 --> 00:07:46,900

faster than diffusion or nerve impulses

175

00:07:53,370 --> 00:07:50,650

in living systems so here is an example

176

00:07:55,860 --> 00:07:53,380

of part of the bio field the acupuncture

177

00:07:59,960 --> 00:07:55,870

system of meridians and points which are

178

00:08:03,029 --> 00:07:59,970

well known and it's also well known for

179

00:08:05,340 --> 00:08:03,039

50 60 years now that acupuncture points

180

00:08:07,279 --> 00:08:05,350

have higher electrical connectivity than

181

00:08:09,540 --> 00:08:07,289

the surrounding tissue and in fact

182

00:08:12,750 --> 00:08:09,550

devices such as point finders are

183

00:08:14,520 --> 00:08:12,760

utilized to test what where exactly is

184

00:08:16,529 --> 00:08:14,530

the acupuncture point before someone

185

00:08:19,800 --> 00:08:16,539

inserts a needle or does another

186

00:08:22,560 --> 00:08:19,810

modality and a hole a practice called

187

00:08:25,170 --> 00:08:22,570

electrodermal testing was born out of

188

00:08:27,840 --> 00:08:25,180

this whereby people electrically test

189

00:08:30,810 --> 00:08:27,850

conductivity of acupuncture meridians

190

00:08:33,630 --> 00:08:30,820

and look for stressors bring stressors

191

00:08:36,570 --> 00:08:33,640

or bring medicaments close to the body

192

00:08:39,120 --> 00:08:36,580

near the bio field and find that the

193

00:08:41,790 --> 00:08:39,130

conductivity of acupuncture points and

194

00:08:44,370 --> 00:08:41,800

radians changes in response to for

195

00:08:46,769 --> 00:08:44,380

example homeopathics

196

00:08:49,680 --> 00:08:46,779

or remedies that would balance the

197

00:08:51,900 --> 00:08:49,690

biofield normalizes the energy the

198

00:08:55,680 --> 00:08:51,910

electrical conductivity of this system

199

00:08:57,780 --> 00:08:55,690

whereas stressors and wrong medications

200

00:08:59,790 --> 00:08:57,790

would throw it off

201  
00:09:02,520 --> 00:08:59,800  
would make it conduct too much or too

202  
00:09:04,230 --> 00:09:02,530  
little would be would be imbalanced so

203  
00:09:06,240 --> 00:09:04,240  
there are whole practitioners who

204  
00:09:09,360 --> 00:09:06,250  
utilize devices based on electrodermal

205  
00:09:10,980 --> 00:09:09,370  
testing and I won't say much about it as

206  
00:09:12,750 --> 00:09:10,990  
I'm not really doing practice but

207  
00:09:14,670 --> 00:09:12,760  
scientific research but there are many

208  
00:09:17,520 --> 00:09:14,680  
types of these devices out there and

209  
00:09:21,150 --> 00:09:17,530  
they apparently very successful because

210  
00:09:24,930 --> 00:09:21,160  
people are able to nail problems within

211  
00:09:27,780 --> 00:09:24,940  
the organism and solutions within a

212  
00:09:31,410 --> 00:09:27,790  
single hour very detailed analyses of

213  
00:09:33,600 --> 00:09:31,420

people's energy systems so in 2002 I

214

00:09:34,710 --> 00:09:33,610

wrote up the bio field hypothesis

215

00:09:36,330 --> 00:09:34,720

published it in the Journal of

216

00:09:38,640 --> 00:09:36,340

alternative and complementary medicine

217

00:09:40,800 --> 00:09:38,650

and it's about the dynamic field of the

218

00:09:44,160 --> 00:09:40,810

organism consisting of electromagnetic

219

00:09:47,490 --> 00:09:44,170

and possibly other more subtle fields

220

00:09:50,010 --> 00:09:47,500

within and around it and that this bio

221

00:09:52,980 --> 00:09:50,020

field can contains vital information and

222

00:09:55,640 --> 00:09:52,990

is central to the integration of the

223

00:09:58,050 --> 00:09:55,650

organism to our to operating as a whole

224

00:09:59,940 --> 00:09:58,060

unlike molecules which of course have

225

00:10:02,460 --> 00:09:59,950

their own individual trajectories it's

226

00:10:04,200 --> 00:10:02,470

very hard to understand the integrity of

227

00:10:07,470 --> 00:10:04,210

the organism based on a molecular

228

00:10:09,810 --> 00:10:07,480

viewpoint and that the bio field is I

229

00:10:11,610 --> 00:10:09,820

propose to be regulating the

230

00:10:14,760 --> 00:10:11,620

biochemistry and the physiology of the

231

00:10:18,000 --> 00:10:14,770

body to be a super regulator above and

232

00:10:20,340 --> 00:10:18,010

beyond that and that it's also a

233

00:10:22,650 --> 00:10:20,350

high-speed wireless communication system

234

00:10:23,730 --> 00:10:22,660

and I would say a bridge between the

235

00:10:26,550 --> 00:10:23,740

mind and the body

236

00:10:29,880 --> 00:10:26,560

so according to oriental medicine where

237

00:10:33,900 --> 00:10:29,890

the mind goes where attention intention

238

00:10:37,650 --> 00:10:33,910

belief etc go that she the energy flows

239

00:10:39,900 --> 00:10:37,660

and blood follows the chi so we have

240

00:10:41,400 --> 00:10:39,910

first the action of mine and then the

241

00:10:44,280 --> 00:10:41,410

movement of energy the bio field

242

00:10:46,440 --> 00:10:44,290

shifting and then the changes in blood

243

00:10:50,610 --> 00:10:46,450

and flesh follow and that was known for

244

00:10:52,620 --> 00:10:50,620

5000 years and now people are

245

00:10:55,230 --> 00:10:52,630

implementing this and in integrative

246

00:10:57,180 --> 00:10:55,240

medicine today so what type of

247

00:10:59,190 --> 00:10:57,190

measurement techniques are there for the

248

00:11:01,710 --> 00:10:59,200

bio field and here are some that we use

249

00:11:04,500 --> 00:11:01,720

at Institute for frontier science my

250

00:11:06,990 --> 00:11:04,510

non-profit lab we do bio photon counting

251  
00:11:09,720 --> 00:11:07,000  
which I'll describe we do high voltage

252  
00:11:10,830 --> 00:11:09,730  
electrophotography using commercial

253  
00:11:12,960 --> 00:11:10,840  
devices and we've all

254  
00:11:16,590 --> 00:11:12,970  
so developed a custom high voltage

255  
00:11:19,560 --> 00:11:16,600  
camera and I'll describe that as well

256  
00:11:21,330 --> 00:11:19,570  
and we have a custom several customized

257  
00:11:22,890 --> 00:11:21,340  
subtle energy detectors that I'll just

258  
00:11:24,900 --> 00:11:22,900  
touch on at the end I've already

259  
00:11:26,490 --> 00:11:24,910  
mentioned the electrical connectivity of

260  
00:11:27,890 --> 00:11:26,500  
acupuncture meridians and I won't go

261  
00:11:30,450 --> 00:11:27,900  
further into it but these are the main

262  
00:11:33,240 --> 00:11:30,460  
measurement techniques today of the bio

263  
00:11:34,410 --> 00:11:33,250

field and there could be so much more

264

00:11:36,630 --> 00:11:34,420

but it's a start

265

00:11:39,600 --> 00:11:36,640

so first let me begin with bio photon

266

00:11:41,630 --> 00:11:39,610

counting and we have a custom-built

267

00:11:45,150 --> 00:11:41,640

technology using a standard

268

00:11:48,150 --> 00:11:45,160

photomultiplier tube and bio photons are

269

00:11:51,090 --> 00:11:48,160

the ultra weak natural light emitted

270

00:11:53,370 --> 00:11:51,100

from the organism and all organisms emit

271

00:11:55,410 --> 00:11:53,380

such light it was discovered almost a

272

00:11:57,690 --> 00:11:55,420

hundred years ago by Alexander Gurwitch

273

00:11:59,100 --> 00:11:57,700

who had onions in a paper bag and

274

00:12:01,230 --> 00:11:59,110

noticed when they were together they

275

00:12:03,420 --> 00:12:01,240

seemed to facilitate each other's growth

276

00:12:05,850 --> 00:12:03,430

and then he separated them by various

277

00:12:07,830 --> 00:12:05,860

optical blockers and discovered that

278

00:12:10,500 --> 00:12:07,840

they were apparently ultraviolet because

279

00:12:14,400 --> 00:12:10,510

glass would block the communication but

280

00:12:17,310 --> 00:12:14,410

quartz which passes UV would not so it's

281

00:12:21,230 --> 00:12:17,320

been known a long time and we have a

282

00:12:23,910 --> 00:12:21,240

schematic here we have the PMT of course

283

00:12:25,920 --> 00:12:23,920

augments particles of light it's a

284

00:12:28,350 --> 00:12:25,930

single photon counter and via the

285

00:12:31,050 --> 00:12:28,360

photoelectric effect it magnifies each

286

00:12:33,030 --> 00:12:31,060

photon by an electron cascade and the

287

00:12:35,160 --> 00:12:33,040

photoelectric effect by the way is what

288

00:12:37,140 --> 00:12:35,170

Einstein received a Nobel Prize for and

289

00:12:40,620 --> 00:12:37,150

then this is received by a

290

00:12:42,630 --> 00:12:40,630

microcontroller and conveyed to USB so

291

00:12:44,790 --> 00:12:42,640

that we have real-time data acquisition

292

00:12:48,620 --> 00:12:44,800

of counting photons from the human body

293

00:12:50,820 --> 00:12:48,630

and we have produced a dark closet

294

00:12:53,100 --> 00:12:50,830

whereby we can have three people in

295

00:12:54,750 --> 00:12:53,110

there at once and really study photon

296

00:12:57,480 --> 00:12:54,760

emission from different parts of the

297

00:12:59,520 --> 00:12:57,490

body or from the whole chamber with

298

00:13:02,970 --> 00:12:59,530

several people interacting say an energy

299

00:13:04,650 --> 00:13:02,980

healing Harry jabs so very cleverly did

300

00:13:06,840 --> 00:13:04,660

all of this put all together the

301  
00:13:08,850 --> 00:13:06,850  
technology and made it happen that was

302  
00:13:10,830 --> 00:13:08,860  
my partner sitting there and also

303  
00:13:12,420 --> 00:13:10,840  
figured out how to make it ventilated

304  
00:13:14,610 --> 00:13:12,430  
because when we go in there it's sealed

305  
00:13:18,990 --> 00:13:14,620  
shut we have to breathe so he figured

306  
00:13:23,040 --> 00:13:19,000  
out a spiral path to deliver air force

307  
00:13:23,830 --> 00:13:23,050  
by fans but blocks light rays and we use

308  
00:13:27,460 --> 00:13:23,840  
a

309  
00:13:29,650 --> 00:13:27,470  
photomultiplier tube here's the number

310  
00:13:31,990 --> 00:13:29,660  
SEL refers to select that's their

311  
00:13:34,240 --> 00:13:32,000  
top-of-the-line low dark count which is

312  
00:13:36,280 --> 00:13:34,250  
important because the photon emission

313  
00:13:38,860 --> 00:13:36,290

from the human body is somewhere up to

314

00:13:40,660 --> 00:13:38,870

about a hundred photons per square

315

00:13:43,030 --> 00:13:40,670

centimeter per second it's very low

316

00:13:44,530 --> 00:13:43,040

level and here's how we apply it but

317

00:13:46,540 --> 00:13:44,540

these are just mock-ups because we have

318

00:13:48,070 --> 00:13:46,550

to do it in total darkness we always

319

00:13:50,230 --> 00:13:48,080

have to wear black and we put the

320

00:13:52,720 --> 00:13:50,240

photomultiplier tube without the cap on

321

00:13:55,180 --> 00:13:52,730

it directly on the part of the body that

322

00:13:56,800 --> 00:13:55,190

we're measuring and for example the palm

323

00:13:59,170 --> 00:13:56,810

of the hand is a great emitter the

324

00:14:01,540 --> 00:13:59,180

forehead the third eye so to speak and

325

00:14:03,640 --> 00:14:01,550

there's the interior the chamber also

326

00:14:05,800 --> 00:14:03,650

painted black to prevent stray light

327

00:14:08,260 --> 00:14:05,810

from bouncing around and being counted

328

00:14:10,360 --> 00:14:08,270

again and we showed that the dark count

329

00:14:12,520 --> 00:14:10,370

is stable here it's about seven counts

330

00:14:14,740 --> 00:14:12,530

per second so nobody's in the box this

331

00:14:18,070 --> 00:14:14,750

is just running the photomultiplier for

332

00:14:19,540 --> 00:14:18,080

some five hours so there's Harry at the

333

00:14:22,660 --> 00:14:19,550

control and he developed all the

334

00:14:26,070 --> 00:14:22,670

electronics for capturing the photon

335

00:14:29,320 --> 00:14:26,080

count and analyzing it statistically

336

00:14:31,240 --> 00:14:29,330

Here I am in the chamber again we I have

337

00:14:32,980 --> 00:14:31,250

to blacken out as much of my body as

338

00:14:36,250 --> 00:14:32,990

possible I should probably be wearing a

339

00:14:38,920 --> 00:14:36,260

burqa but I at least have a black mask

340

00:14:43,420 --> 00:14:38,930

because the face is a high emitter so

341

00:14:44,860 --> 00:14:43,430

are the hands but here I'm getting ready

342

00:14:47,650 --> 00:14:44,870

to measure someone and they open the

343

00:14:49,840 --> 00:14:47,660

door to look so wearing leather gloves a

344

00:14:53,320 --> 00:14:49,850

black face mask and always black clothes

345

00:14:55,120 --> 00:14:53,330

so it's interesting that our studies and

346

00:14:57,760 --> 00:14:55,130

those of others have validated ancient

347

00:15:00,790 --> 00:14:57,770

knowledge about the hands as emitters so

348

00:15:02,860 --> 00:15:00,800

that the ah Sophists knew that there was

349

00:15:04,660 --> 00:15:02,870

a minor chakra in the palm of the hand

350

00:15:07,030 --> 00:15:04,670

also called Lao Gong and oriental

351  
00:15:09,580 --> 00:15:07,040  
medicine the palace of work another one

352  
00:15:12,250 --> 00:15:09,590  
near the wrist intergate and the fingers

353  
00:15:15,280 --> 00:15:12,260  
too were whirls of energy and they drew

354  
00:15:18,210 --> 00:15:15,290  
that and hundred years ago and studies

355  
00:15:21,430 --> 00:15:18,220  
such as this image from Kyoto University

356  
00:15:24,460 --> 00:15:21,440  
time-lapse photography of the fingers

357  
00:15:26,740 --> 00:15:24,470  
show the most emitting fingers are the

358  
00:15:28,810 --> 00:15:26,750  
index and third finger and also the

359  
00:15:32,910 --> 00:15:28,820  
palms of the hands is well known and

360  
00:15:35,780 --> 00:15:32,920  
sword fingers like this are used in

361  
00:15:39,380 --> 00:15:35,790  
Taoist practices and Qigong

362  
00:15:41,840 --> 00:15:39,390  
in Healing Touch to move energy to act

363  
00:15:44,510 --> 00:15:41,850

like lasers really in doing healing work

364

00:15:46,040 --> 00:15:44,520

really moving energy strongly and it's

365

00:15:48,320 --> 00:15:46,050

amazing that those are the greatest

366

00:15:51,320 --> 00:15:48,330

emitters of bio photons from the human

367

00:15:53,630 --> 00:15:51,330

body so we started with some research

368

00:15:55,460 --> 00:15:53,640

questions like this can we measure a

369

00:15:57,920 --> 00:15:55,470

change in bio photon emission from the

370

00:16:00,530 --> 00:15:57,930

hands of energy healers before and after

371

00:16:02,300 --> 00:16:00,540

they conduct energy therapy can we

372

00:16:04,040 --> 00:16:02,310

measure a change in bio photon emission

373

00:16:06,560 --> 00:16:04,050

from the hands of patients before and

374

00:16:09,230 --> 00:16:06,570

after they receive energy therapy and

375

00:16:11,540 --> 00:16:09,240

can we measure bio photons during the

376

00:16:13,810 --> 00:16:11,550

energy healing session itself so we

377

00:16:16,400 --> 00:16:13,820

started with those three questions and

378

00:16:18,890 --> 00:16:16,410

it was a simple research design and

379

00:16:21,440 --> 00:16:18,900

outcome type study with five very

380

00:16:23,750 --> 00:16:21,450

advanced bio field practitioners who

381

00:16:26,390 --> 00:16:23,760

would practice between eight and forty

382

00:16:28,820 --> 00:16:26,400

years and pain patients that we randomly

383

00:16:31,280 --> 00:16:28,830

assigned and measured in a number of

384

00:16:33,080 --> 00:16:31,290

sessions and they actually performed 20

385

00:16:34,910 --> 00:16:33,090

minutes of energy healing in our chamber

386

00:16:37,760 --> 00:16:34,920

and we measured them before during and

387

00:16:41,660 --> 00:16:37,770

after so here's an example of one

388

00:16:43,580 --> 00:16:41,670

session with healer one patient one we

389

00:16:48,530 --> 00:16:43,590

always measured a little baseline of two

390

00:16:50,960 --> 00:16:48,540

minutes before the baseline of two

391

00:16:52,610 --> 00:16:50,970

minutes before the healer palm and then

392

00:16:54,740 --> 00:16:52,620

another two minute baseline the other

393

00:16:56,450 --> 00:16:54,750

healer palm right and left and then

394

00:16:59,330 --> 00:16:56,460

another baseline and then we went to

395

00:17:01,130 --> 00:16:59,340

patient palms right and left and then we

396

00:17:04,370 --> 00:17:01,140

allowed them to conduct the healing

397

00:17:07,340 --> 00:17:04,380

session and we put the detector above

398

00:17:09,770 --> 00:17:07,350

the heads of the two persons in the box

399

00:17:12,110 --> 00:17:09,780

and we found a pattern of light being

400

00:17:14,810 --> 00:17:12,120

emitted that was different for every

401  
00:17:16,310 --> 00:17:14,820  
healing session never repeated some of

402  
00:17:18,230 --> 00:17:16,320  
them were quiet with virtually no

403  
00:17:19,760 --> 00:17:18,240  
photons this one was particularly

404  
00:17:23,120 --> 00:17:19,770  
interesting because we've got three

405  
00:17:26,090 --> 00:17:23,130  
major peaks and these Peaks correlated

406  
00:17:28,600 --> 00:17:26,100  
verbally with the healer saying and now

407  
00:17:31,370 --> 00:17:28,610  
my guides have arrived and yet again

408  
00:17:33,290 --> 00:17:31,380  
guides have arrived and the peaks went

409  
00:17:35,720 --> 00:17:33,300  
up then and so that was interesting

410  
00:17:37,850 --> 00:17:35,730  
qualitative data that correlated with

411  
00:17:39,560 --> 00:17:37,860  
peaks of light coming out during the

412  
00:17:41,750 --> 00:17:39,570  
healing session which was twenty minutes

413  
00:17:44,010 --> 00:17:41,760

and then we repeated the palm

414

00:17:49,200 --> 00:17:44,020

measurements afterwards and then

415

00:17:51,570 --> 00:17:49,210

another baseline so button so here's a

416

00:17:52,799 --> 00:17:51,580

summary of some data from these runs and

417

00:17:55,049 --> 00:17:52,809

I just want to point out a couple of

418

00:17:57,360 --> 00:17:55,059

things and one is that sword fingers

419

00:17:59,220 --> 00:17:57,370

emissions shown here in red are the

420

00:18:04,049 --> 00:17:59,230

largest emitters of the hands that we

421

00:18:06,419 --> 00:18:04,059

found 54 counts and 41 counts per second

422

00:18:08,370 --> 00:18:06,429

from a particular external Qi

423

00:18:11,720 --> 00:18:08,380

practitioner really working with taoist

424

00:18:13,710 --> 00:18:11,730

fingers both before and after and

425

00:18:15,330 --> 00:18:13,720

basically you can see that the right

426

00:18:18,090 --> 00:18:15,340

hands in general which are the first

427

00:18:20,070 --> 00:18:18,100

measurements from healers and a little

428

00:18:24,660 --> 00:18:20,080

bit also from patients emit a little bit

429

00:18:26,730 --> 00:18:24,670

more light 20.6 photons compared to 18.8

430

00:18:29,220 --> 00:18:26,740

now that's highly significant because

431

00:18:32,850 --> 00:18:29,230

we're counting really millions of

432

00:18:34,530 --> 00:18:32,860

photons over the course we have the

433

00:18:38,340 --> 00:18:34,540

capacity and count millions of photons

434

00:18:40,799 --> 00:18:38,350

but we have found that even one photon

435

00:18:42,240 --> 00:18:40,809

difference is significant statistically

436

00:18:44,310 --> 00:18:42,250

in these measurements so a couple of

437

00:18:46,440 --> 00:18:44,320

photons is really still significant and

438

00:18:48,540 --> 00:18:46,450

according to oriental medicine theory

439

00:18:50,730 --> 00:18:48,550

the left hand is more of a receiver in

440

00:18:53,390 --> 00:18:50,740

the right hand the young hand is the

441

00:18:56,549 --> 00:18:53,400

giver of energy so it's it's really

442

00:19:02,040 --> 00:18:56,559

proves in fact oriental medicine theory

443

00:19:04,020 --> 00:19:02,050

known for 5000 years and just to show

444

00:19:06,090 --> 00:19:04,030

you a little bit about statistics so to

445

00:19:08,640 --> 00:19:06,100

answer the question what happens before

446

00:19:11,250 --> 00:19:08,650

and after energy healing the healers

447

00:19:14,790 --> 00:19:11,260

energy went down about 11% from the palm

448

00:19:17,760 --> 00:19:14,800

of the hands right and left hand

449

00:19:20,340 --> 00:19:17,770

decreased 11% the patients did not show

450

00:19:24,840 --> 00:19:20,350

such a significant decrease in energy

451  
00:19:26,850 --> 00:19:24,850  
pre-post healing so let me move on we

452  
00:19:29,250 --> 00:19:26,860  
also did some pilot pilot studies on

453  
00:19:33,270 --> 00:19:29,260  
individual subjects who engaged in

454  
00:19:35,760 --> 00:19:33,280  
specific psychoenergetic States and our

455  
00:19:37,650 --> 00:19:35,770  
research question was does intention to

456  
00:19:39,930 --> 00:19:37,660  
change one psycho energetic state

457  
00:19:45,510 --> 00:19:39,940  
correlate with a change in bio photon

458  
00:19:48,180 --> 00:19:45,520  
emission so here is a woman aged 57

459  
00:19:50,520 --> 00:19:48,190  
medical intuitive opening and closing

460  
00:19:52,350 --> 00:19:50,530  
her third eye excuse me a minute we do

461  
00:19:55,860 --> 00:19:52,360  
this in a couple of trials as people get

462  
00:19:57,720 --> 00:19:55,870  
fatigued overwhelmed with it but with

463  
00:19:59,580 --> 00:19:57,730

closed eyes twenty vote

464

00:20:01,620 --> 00:19:59,590

Conn's per second per square centimeter

465

00:20:03,750 --> 00:20:01,630

were emitted from this region which is

466

00:20:08,270 --> 00:20:03,760

known as the third eye in esoteric

467

00:20:10,620 --> 00:20:08,280

circles and in the open condition 41.2

468

00:20:12,480 --> 00:20:10,630

photons so that's a change of a hundred

469

00:20:16,260 --> 00:20:12,490

and six percent and it happened really

470

00:20:17,880 --> 00:20:16,270

quickly now as it turns out we also

471

00:20:20,070 --> 00:20:17,890

measured but I don't have the data here

472

00:20:21,810 --> 00:20:20,080

changes in her whether with whether

473

00:20:24,450 --> 00:20:21,820

there were any changes in the right palm

474

00:20:26,100 --> 00:20:24,460

her heart and abdominal regions and

475

00:20:28,770 --> 00:20:26,110

there were no such changes so it was

476

00:20:32,700 --> 00:20:28,780

highly specific to this region which is

477

00:20:37,080 --> 00:20:32,710

of course associated with intuition and

478

00:20:40,230 --> 00:20:37,090

we had another subject to a male age 50

479

00:20:42,090 --> 00:20:40,240

for an advanced practitioner from the

480

00:20:45,030 --> 00:20:42,100

International Academy of consciousness

481

00:20:47,130 --> 00:20:45,040

also a teacher and researcher performing

482

00:20:49,230 --> 00:20:47,140

a technique that they teach called the

483

00:20:53,190 --> 00:20:49,240

voluntary energetic longitudinal

484

00:20:56,400 --> 00:20:53,200

oscillation or the V low bellow and in

485

00:20:58,500 --> 00:20:56,410

this case we also measured his right

486

00:21:01,070 --> 00:20:58,510

palm his left palm his heart region and

487

00:21:04,710 --> 00:21:01,080

forehead and what changed in particular

488

00:21:07,020 --> 00:21:04,720

was his heart area the heart area

489

00:21:08,700 --> 00:21:07,030

increased photon emission from nine

490

00:21:14,820 --> 00:21:08,710

point eight to thirty seven point four

491

00:21:16,800 --> 00:21:14,830

almost 300% and whereas his other major

492

00:21:19,170 --> 00:21:16,810

emitter regions the forehead the right

493

00:21:21,420 --> 00:21:19,180

palm left palm did not show as much

494

00:21:23,280 --> 00:21:21,430

change so something is going on here

495

00:21:26,160 --> 00:21:23,290

that's correlated apparently with

496

00:21:29,250 --> 00:21:26,170

intention and psychoenergetic state I

497

00:21:30,720 --> 00:21:29,260

should also mention that the attitude

498

00:21:34,350 --> 00:21:30,730

toward bio photon emission by the

499

00:21:37,290 --> 00:21:34,360

mainstream biomedical worldview is that

500

00:21:39,780 --> 00:21:37,300

it's some junk light that it's basically

501  
00:21:42,420 --> 00:21:39,790  
due to free radical chemistry reactive

502  
00:21:47,360 --> 00:21:42,430  
oxygen species and that it has no

503  
00:21:49,770 --> 00:21:47,370  
significance that it's purely junk from

504  
00:21:52,500 --> 00:21:49,780  
bioluminescence in the organism but yet

505  
00:21:53,880 --> 00:21:52,510  
when you see a shift due to intense you

506  
00:21:55,980 --> 00:21:53,890  
have to say there's got to be something

507  
00:22:00,060 --> 00:21:55,990  
more going on when you get changes like

508  
00:22:01,730 --> 00:22:00,070  
300% so so the conclusions from this

509  
00:22:04,380 --> 00:22:01,740  
pilot study various psychoenergetic

510  
00:22:06,330 --> 00:22:04,390  
exercises can alter bio photon emission

511  
00:22:10,460 --> 00:22:06,340  
from specific regions of the body

512  
00:22:12,399 --> 00:22:10,470  
sometimes according to intention

513  
00:22:16,850 --> 00:22:12,409

I'm gonna move along to another method

514

00:22:21,560 --> 00:22:16,860

high voltage electric Rafi this started

515

00:22:24,350 --> 00:22:21,570

as Kirlian photography in Russia we have

516

00:22:27,409 --> 00:22:24,360

Stanley Crippler who researched that for

517

00:22:30,890 --> 00:22:27,419

many decades a long time ago and I'm

518

00:22:32,960 --> 00:22:30,900

well aware of his good work and now it's

519

00:22:36,440 --> 00:22:32,970

moved from film to digital photography

520

00:22:38,480 --> 00:22:36,450

as photography has in general so it's no

521

00:22:40,760 --> 00:22:38,490

longer film based it's digital and

522

00:22:42,980 --> 00:22:40,770

there's commercial products this is one

523

00:22:45,590 --> 00:22:42,990

the bio L which is really a good window

524

00:22:47,779 --> 00:22:45,600

into the bio field because not only is

525

00:22:49,820 --> 00:22:47,789

it making photographs of the fingertips

526

00:22:51,560 --> 00:22:49,830

but there's an enormous database now of

527

00:22:53,210 --> 00:22:51,570

people who have been measured sick

528

00:22:56,330 --> 00:22:53,220

people as well as well people and

529

00:22:58,340 --> 00:22:56,340

they've mapped sectors along the finger

530

00:23:00,350 --> 00:22:58,350

emissions that correspond to organs and

531

00:23:02,990 --> 00:23:00,360

tissues and they can say a lot about

532

00:23:05,539 --> 00:23:03,000

your health and in fact this instrument

533

00:23:07,490 --> 00:23:05,549

is a diagnostic instrument in Russia

534

00:23:12,649 --> 00:23:07,500

although it's not in the United States

535

00:23:14,180 --> 00:23:12,659

because of FDA issues and I brought this

536

00:23:16,460 --> 00:23:14,190

device the other day and measured some

537

00:23:19,370 --> 00:23:16,470

of you I haven't yet been able to send

538

00:23:22,610 --> 00:23:19,380

out those the data to you but I will get

539

00:23:24,049 --> 00:23:22,620

it to you so bio L analyzes an induced

540

00:23:27,049 --> 00:23:24,059

light emission called the Corona

541

00:23:30,080 --> 00:23:27,059

discharge when you place any object on a

542

00:23:33,680 --> 00:23:30,090

very highly charged plate on the order

543

00:23:35,570 --> 00:23:33,690

of 5,000 to 15,000 volts an induced

544

00:23:37,820 --> 00:23:35,580

light is emitted called the Corona

545

00:23:39,590 --> 00:23:37,830

discharge here you can see it a little

546

00:23:41,750 --> 00:23:39,600

bit we're kind of peeping into the

547

00:23:43,669 --> 00:23:41,760

device to show you that the finger would

548

00:23:45,110 --> 00:23:43,679

emit light you don't really feel as

549

00:23:46,940 --> 00:23:45,120

shocked as you would with the old

550

00:23:51,140 --> 00:23:46,950

Kirlian photography it's not as high a

551  
00:23:53,029 --> 00:23:51,150  
voltage and so conceptually a circle of

552  
00:23:55,970 --> 00:23:53,039  
light around the fingertip is produced

553  
00:23:58,279 --> 00:23:55,980  
this goes through a clear glass

554  
00:24:01,430 --> 00:23:58,289  
electrode down in a sense by a charge

555  
00:24:04,480 --> 00:24:01,440  
couple detector a CCD camera the basis

556  
00:24:07,220 --> 00:24:04,490  
of digital photography today and then

557  
00:24:10,970 --> 00:24:07,230  
but almost in real time you get an image

558  
00:24:14,029 --> 00:24:10,980  
then sent via USB to a computer notebook

559  
00:24:16,909 --> 00:24:14,039  
or laptop and then you can analyze it

560  
00:24:18,560 --> 00:24:16,919  
using enormously powerful software I'll

561  
00:24:22,010 --> 00:24:18,570  
show you a little bit about that of

562  
00:24:23,450 --> 00:24:22,020  
course the bio oil Corona discharges are

563  
00:24:25,250 --> 00:24:23,460

well anyway

564

00:24:27,080 --> 00:24:25,260

okay here are the bio-oil scans of all

565

00:24:28,580 --> 00:24:27,090

10 fingers their computer colorized

566

00:24:31,570 --> 00:24:28,590

because they're only in black and white

567

00:24:34,310 --> 00:24:31,580

and then these are analyzed according to

568

00:24:36,050 --> 00:24:34,320

sectors that Russians have discovered

569

00:24:38,960 --> 00:24:36,060

correspond to different tissues and

570

00:24:41,000 --> 00:24:38,970

organs and they are completely

571

00:24:42,620 --> 00:24:41,010

transparent about this it's all revealed

572

00:24:44,090 --> 00:24:42,630

in the software there are no hidden

573

00:24:47,210 --> 00:24:44,100

software algorithms

574

00:24:49,160 --> 00:24:47,220

it's totally transparent and utilized

575

00:24:51,530 --> 00:24:49,170

even in dissertation research at

576

00:24:53,180 --> 00:24:51,540

universities I have two students at

577

00:24:56,360 --> 00:24:53,190

Saybrook using this and their doctoral

578

00:25:00,320 --> 00:24:56,370

dissertations right now and here's an

579

00:25:02,240 --> 00:25:00,330

example of the mapping of organs you see

580

00:25:05,420 --> 00:25:02,250

the thyroid the thymus the pancreas

581

00:25:07,550 --> 00:25:05,430

etcetera and very specific sectors of a

582

00:25:09,410 --> 00:25:07,560

particular finger which the Russians

583

00:25:11,690 --> 00:25:09,420

have elucidated over hundreds of

584

00:25:13,940 --> 00:25:11,700

thousands of persons studied for decades

585

00:25:18,650 --> 00:25:13,950

now since curly and photography was

586

00:25:20,930 --> 00:25:18,660

discovered back around 1948 so and then

587

00:25:22,580 --> 00:25:20,940

they show an organ diagram of the

588

00:25:25,190 --> 00:25:22,590

distribution of the energy of the

589

00:25:28,460 --> 00:25:25,200

biofield from each of the ten fingers

590

00:25:31,010 --> 00:25:28,470

from the left hand in the various left

591

00:25:33,410 --> 00:25:31,020

organs and on the right from the right

592

00:25:37,190 --> 00:25:33,420

hand and ideally it should be in the

593

00:25:39,530 --> 00:25:37,200

green circular zone and that red line

594

00:25:41,750 --> 00:25:39,540

traces the individual fingerprint of

595

00:25:43,880 --> 00:25:41,760

this person's energy distribution and

596

00:25:46,550 --> 00:25:43,890

you can see how this shifts over time

597

00:25:49,070 --> 00:25:46,560

with different health interventions or

598

00:25:51,560 --> 00:25:49,080

mind-body practices so I'll just show

599

00:25:54,350 --> 00:25:51,570

you some examples of composite bio

600

00:25:55,730 --> 00:25:54,360

fields from bio oil assessment and one

601  
00:25:58,220 --> 00:25:55,740  
of the things I found was that if

602  
00:26:00,260 --> 00:25:58,230  
someone is practicing one of these

603  
00:26:03,230 --> 00:26:00,270  
spiritual practices of the east for

604  
00:26:04,970 --> 00:26:03,240  
about two years and regularly they are

605  
00:26:07,280 --> 00:26:04,980  
extremely well regulated in the bio

606  
00:26:10,160 --> 00:26:07,290  
field but here's a beginner of yoga and

607  
00:26:12,980 --> 00:26:10,170  
you can see the energy deficit along the

608  
00:26:15,470 --> 00:26:12,990  
legs and a rather irregular pattern of

609  
00:26:17,380 --> 00:26:15,480  
energy these composite bio fields again

610  
00:26:20,180 --> 00:26:17,390  
are produced from all 10 fingers

611  
00:26:22,580 --> 00:26:20,190  
according to the sector analysis and the

612  
00:26:25,370 --> 00:26:22,590  
same woman after one hour of yoga much

613  
00:26:27,670 --> 00:26:25,380

improved again a regular pattern of

614

00:26:30,320 --> 00:26:27,680

energy that corresponds to smooth

615

00:26:32,480 --> 00:26:30,330

circles of light emitted by each finger

616

00:26:35,600 --> 00:26:32,490

would be correlated with the smooth

617

00:26:36,470 --> 00:26:35,610

unimpeded flow of Chi which is the ideal

618

00:26:39,320 --> 00:26:36,480

of

619

00:26:42,520 --> 00:26:39,330

oriental medicine and it's blocks that

620

00:26:45,590 --> 00:26:42,530

happen and irregularities that signify

621

00:26:46,640 --> 00:26:45,600

problems or potential problems in health

622

00:26:49,280 --> 00:26:46,650

and wellness

623

00:26:51,890 --> 00:26:49,290

now here's a yogi 20 years of practice

624

00:26:53,540 --> 00:26:51,900

before and after yoga the only change I

625

00:26:56,000 --> 00:26:53,550

can see here and we of course can

626  
00:26:59,270 --> 00:26:56,010  
analyze these quantitatively is a change

627  
00:27:03,290 --> 00:26:59,280  
in his back emission the back looks a

628  
00:27:05,960 --> 00:27:03,300  
little bit irregular here but it fills

629  
00:27:08,060 --> 00:27:05,970  
out here so you get to see the expanded

630  
00:27:10,880 --> 00:27:08,070  
state of a well regulated practitioner

631  
00:27:12,800 --> 00:27:10,890  
of a mind/body/spirit practice and

632  
00:27:15,680 --> 00:27:12,810  
here's just another example a woman aged

633  
00:27:17,540 --> 00:27:15,690  
57 a beginner studying wild goose cheat

634  
00:27:20,420 --> 00:27:17,550  
going where's your Qigong well known for

635  
00:27:22,790 --> 00:27:20,430  
health and wellness looks rather

636  
00:27:26,560 --> 00:27:22,800  
irregular and distorted on the left but

637  
00:27:28,940 --> 00:27:26,570  
after doing Qigong is much improved and

638  
00:27:31,610 --> 00:27:28,950

here's an example of what happens when

639

00:27:35,150 --> 00:27:31,620

you expose someone to an electromagnetic

640

00:27:38,270 --> 00:27:35,160

stressor such as a smartphone and this

641

00:27:40,910 --> 00:27:38,280

is actually this one is a computer this

642

00:27:43,070 --> 00:27:40,920

person came to me desperate because they

643

00:27:45,830 --> 00:27:43,080

were so electro hypersensitive living in

644

00:27:48,290 --> 00:27:45,840

a penthouse in a high-rise er in San

645

00:27:50,750 --> 00:27:48,300

Francisco exposed to radio waves cell

646

00:27:52,880 --> 00:27:50,760

phone towers etc and couldn't even sit

647

00:27:55,040 --> 00:27:52,890

at her computer anymore so she came in

648

00:27:56,960 --> 00:27:55,050

and you looked very good energetically

649

00:27:59,240 --> 00:27:56,970

but after one hour at her own notebook

650

00:28:01,430 --> 00:27:59,250

computer you can see how distorted the

651  
00:28:03,380 --> 00:28:01,440  
bio field is and we see this regularly

652  
00:28:06,710 --> 00:28:03,390  
especially an electro hypersensitive

653  
00:28:09,560 --> 00:28:06,720  
persons so we can see energetically how

654  
00:28:13,160 --> 00:28:09,570  
people are are affected by stressors as

655  
00:28:14,840 --> 00:28:13,170  
well as by medicaments or homeopathics

656  
00:28:16,700 --> 00:28:14,850  
brought near the bio field they don't

657  
00:28:18,530 --> 00:28:16,710  
even have to take them something held in

658  
00:28:20,930 --> 00:28:18,540  
the hand will either strengthened or

659  
00:28:23,150 --> 00:28:20,940  
reduce your bio field potentially here's

660  
00:28:26,020 --> 00:28:23,160  
another case where we brought this is a

661  
00:28:29,870 --> 00:28:26,030  
different way of looking at the data but

662  
00:28:31,790 --> 00:28:29,880  
we brought gave someone a smartphone to

663  
00:28:33,860 --> 00:28:31,800

hold for 45 minutes and work with it

664

00:28:36,770 --> 00:28:33,870

typically this person held it in one

665

00:28:41,810 --> 00:28:36,780

hand and worked with the other hand and

666

00:28:45,500 --> 00:28:41,820

found as a result we saw that the

667

00:28:48,080 --> 00:28:45,510

balance in the left right was was

668

00:28:49,940 --> 00:28:48,090

greatly affected by using a smartphone

669

00:28:51,289 --> 00:28:49,950

held in one hand

670

00:28:54,110 --> 00:28:51,299

worked with the others so that's very

671

00:28:55,970 --> 00:28:54,120

common and we don't know the net result

672

00:28:58,299 --> 00:28:55,980

of people using these devices over the

673

00:29:01,730 --> 00:28:58,309

long run but I don't think it's healthy

674

00:29:03,620 --> 00:29:01,740

so here's me for example after sitting

675

00:29:07,639 --> 00:29:03,630

and writing that big fat NIH grant

676  
00:29:09,860 --> 00:29:07,649  
proposal so many years ago the shoveled

677  
00:29:12,919 --> 00:29:09,870  
poor circulation in the legs too much

678  
00:29:14,629 --> 00:29:12,929  
sitting brokenhearted really disheveled

679  
00:29:16,909 --> 00:29:14,639  
but I gave myself electroacupuncture

680  
00:29:20,210 --> 00:29:16,919  
with a device I bought in Japan and

681  
00:29:21,230 --> 00:29:20,220  
presto I look much better so it just

682  
00:29:23,690 --> 00:29:21,240  
shows you how these inner of these

683  
00:29:26,389 --> 00:29:23,700  
energetic interventions can impact the

684  
00:29:29,090 --> 00:29:26,399  
bio field and of course if you maintain

685  
00:29:31,940 --> 00:29:29,100  
that new pattern then the flesh and

686  
00:29:34,669 --> 00:29:31,950  
blood follow and healing ensues and so

687  
00:29:36,350 --> 00:29:34,679  
that's the idea again it's 5000 years

688  
00:29:38,000 --> 00:29:36,360

old but now we're visualizing it with

689

00:29:41,360 --> 00:29:38,010

scientific tools and here's another

690

00:29:44,509 --> 00:29:41,370

example from right middle finger of a

691

00:29:47,000 --> 00:29:44,519

person with a lot of stress female age

692

00:29:49,789 --> 00:29:47,010

26 you can see our irregular the finger

693

00:29:52,789 --> 00:29:49,799

images it ideally is a perfect circle of

694

00:29:54,980 --> 00:29:52,799

light and even after a placebo a sugar

695

00:29:57,409 --> 00:29:54,990

pill there's an improvement but after

696

00:29:59,870 --> 00:29:57,419

post occupy sure the improvement is

697

00:30:04,039 --> 00:29:59,880

better than placebo so that's the kind

698

00:30:06,289 --> 00:30:04,049

of data we often see and again this

699

00:30:08,990 --> 00:30:06,299

corresponds to her bio field improved

700

00:30:11,149 --> 00:30:09,000

and now here's another example this is

701  
00:30:13,070 --> 00:30:11,159  
an energy healer what do energy healers

702  
00:30:15,710 --> 00:30:13,080  
look like in this type of photography

703  
00:30:17,720 --> 00:30:15,720  
and this particular energy energy healer

704  
00:30:20,450 --> 00:30:17,730  
is an external Chi practitioner emits

705  
00:30:22,909 --> 00:30:20,460  
very strong energy even bone melting

706  
00:30:25,940 --> 00:30:22,919  
according to some of the practices

707  
00:30:29,360 --> 00:30:25,950  
literally reconfiguring noses instead of

708  
00:30:31,250 --> 00:30:29,370  
plastic surgery they move Chi and during

709  
00:30:34,870 --> 00:30:31,260  
energy sending you can see how much

710  
00:30:37,159 --> 00:30:34,880  
brighter and Sparky and high fractality

711  
00:30:39,139 --> 00:30:37,169  
discrete sparks and this is the same

712  
00:30:42,830 --> 00:30:39,149  
person in the resting state so it's

713  
00:30:45,080 --> 00:30:42,840

dramatic so we can also do a

714

00:30:47,600 --> 00:30:45,090

quantitative parametric analysis I'm not

715

00:30:50,149 --> 00:30:47,610

doing that here for you but we analyzed

716

00:30:52,430 --> 00:30:50,159

innumerable parameters from the area

717

00:30:53,269 --> 00:30:52,440

illuminated of pixels the light energy

718

00:30:55,490 --> 00:30:53,279

in joules

719

00:30:57,860 --> 00:30:55,500

these are standard physics units these

720

00:30:59,360 --> 00:30:57,870

the density or the the circularity of

721

00:31:01,669 --> 00:30:59,370

the light coming from around the

722

00:31:02,019 --> 00:31:01,679

fingertip the fractal dimension ality

723

00:31:03,609 --> 00:31:02,029

the end

724

00:31:06,190 --> 00:31:03,619

repeat the left-to-right energy

725

00:31:08,219 --> 00:31:06,200

distribution and the sector analysis so

726

00:31:10,749 --> 00:31:08,229

all of that is part of the quantitative

727

00:31:12,430 --> 00:31:10,759

analysis and then we do statistics so

728

00:31:15,519 --> 00:31:12,440

we're not just showing pretty pictures

729

00:31:17,259 --> 00:31:15,529

but I am here today for lack of time so

730

00:31:17,919 --> 00:31:17,269

here's a question how does Qigong

731

00:31:20,739 --> 00:31:17,929

practice

732

00:31:23,320 --> 00:31:20,749

affect the biofield and here's a man

733

00:31:25,239 --> 00:31:23,330

aged 77 with Parkinson's disease now

734

00:31:27,669 --> 00:31:25,249

it's interesting Parkinson's disease of

735

00:31:32,259 --> 00:31:27,679

course is a disease of the brain and you

736

00:31:34,239 --> 00:31:32,269

see a very peculiar biofield image over

737

00:31:36,310 --> 00:31:34,249

the head and after doing an hour of

738

00:31:38,769 --> 00:31:36,320

Qigong he really looks more normal and

739

00:31:41,799 --> 00:31:38,779

I'll just show you what the fingers look

740

00:31:46,209 --> 00:31:41,809

like they correspond to the head because

741

00:31:48,909 --> 00:31:46,219

fingers 3 L and 3r are largely the top

742

00:31:51,759 --> 00:31:48,919

of the head and here they are before and

743

00:31:54,700 --> 00:31:51,769

after Qigong left and right and you can

744

00:31:58,619 --> 00:31:54,710

see expanded and that fuzzy white light

745

00:32:01,029 --> 00:31:58,629

indicating better energy regulation

746

00:32:03,430 --> 00:32:01,039

here's more quantitative analysis

747

00:32:06,009 --> 00:32:03,440

showing that the area this is pre and

748

00:32:07,389 --> 00:32:06,019

post pre post pre post so the area of

749

00:32:10,599 --> 00:32:07,399

light emission from these two fingers

750

00:32:13,029 --> 00:32:10,609

went up dramatically and the density the

751

00:32:15,700 --> 00:32:13,039

circularity of light also improved and

752

00:32:17,829 --> 00:32:15,710

fractality the discreet spark eNOS went

753

00:32:20,829 --> 00:32:17,839

down so that's typically what we see

754

00:32:24,399 --> 00:32:20,839

when energy regulation is improved and

755

00:32:27,579 --> 00:32:24,409

now we're moving on I have Harry has had

756

00:32:31,419 --> 00:32:27,589

a contract to develop a custom digital

757

00:32:33,820 --> 00:32:31,429

Kirlian camera for imaging phantom limbs

758

00:32:35,739 --> 00:32:33,830

and phantom leaves and I'll just say a

759

00:32:37,930 --> 00:32:35,749

few words about it because we wanted a

760

00:32:39,909 --> 00:32:37,940

larger aperture we want to look at what

761

00:32:42,639 --> 00:32:39,919

happens if a whole hand is gone or a

762

00:32:44,969 --> 00:32:42,649

whole foot and so we need a bigger area

763

00:32:47,979 --> 00:32:44,979

of the lens to put down the limb and

764

00:32:51,519 --> 00:32:47,989

people of course who had a missing limb

765

00:32:53,889 --> 00:32:51,529

or who lose it in wartime or for

766

00:32:56,200 --> 00:32:53,899

amputation regions sometimes experience

767

00:32:58,930 --> 00:32:56,210

sensations where there's no limb and

768

00:33:01,479 --> 00:32:58,940

coding pain and as a well-known syndrome

769

00:33:03,190 --> 00:33:01,489

called phantom limb pain and nobody

770

00:33:05,560 --> 00:33:03,200

really understands this but we thought

771

00:33:08,379 --> 00:33:05,570

we might be able to image the bio field

772

00:33:10,119 --> 00:33:08,389

of such a limb so far we have not done

773

00:33:12,099 --> 00:33:10,129

this with people but we have tried with

774

00:33:13,690 --> 00:33:12,109

leaves and there is a literature by the

775

00:33:16,419 --> 00:33:13,700

way of looking

776

00:33:19,090 --> 00:33:16,429

phantom leaf phenomena most recently

777

00:33:20,950 --> 00:33:19,100

published by John Huber in the Journal

778

00:33:22,870 --> 00:33:20,960

of alternative income Minori medicine a

779

00:33:26,279 --> 00:33:22,880

few years ago and so I'm working with a

780

00:33:28,600 --> 00:33:26,289

group we're trying to replicate that in

781

00:33:30,549 --> 00:33:28,610

not only with this camera but with a

782

00:33:32,409 --> 00:33:30,559

bunch of other custom cameras that were

783

00:33:35,350 --> 00:33:32,419

building because that would be the best

784

00:33:38,409 --> 00:33:35,360

evidence for the bio field I think that

785

00:33:40,779 --> 00:33:38,419

if a phantom leaf and we have some

786

00:33:44,019 --> 00:33:40,789

trials of that here for example fresh

787

00:33:49,330 --> 00:33:44,029

maple leaf on the large aperture and we

788

00:33:52,120 --> 00:33:49,340

have indium let's say tin indium tin

789

00:33:54,789 --> 00:33:52,130

oxide glass which is a clear electrode

790

00:33:56,529 --> 00:33:54,799

on the glass and so that's highly

791

00:33:58,960 --> 00:33:56,539

charged the leaf is place on that and

792

00:34:01,509 --> 00:33:58,970

that a piece of Plexiglas on top and the

793

00:34:03,519 --> 00:34:01,519

leaf is grounded by virtue of an

794

00:34:06,009 --> 00:34:03,529

electrode at the stem then going to

795

00:34:09,220 --> 00:34:06,019

ground and then you turn on the device

796

00:34:11,139 --> 00:34:09,230

for a second or less and then you look

797

00:34:12,760 --> 00:34:11,149

for a Kirlian image so here I'm not sure

798

00:34:14,819 --> 00:34:12,770

you can see that but you can see that

799

00:34:17,530 --> 00:34:14,829

the so-called Kirlian or electro

800

00:34:20,169 --> 00:34:17,540

photograph of a maple leaf uncut and

801  
00:34:22,389 --> 00:34:20,179  
then we tried to get phantoms so we cut

802  
00:34:24,639 --> 00:34:22,399  
the leaf again cleaned everything so

803  
00:34:27,099 --> 00:34:24,649  
there's no water left from that leaf and

804  
00:34:29,559 --> 00:34:27,109  
then we visualized it but we only saw

805  
00:34:31,780 --> 00:34:29,569  
the cut we didn't see the phantom of the

806  
00:34:33,129 --> 00:34:31,790  
whole leaf again which we were hoping to

807  
00:34:36,490 --> 00:34:33,139  
see so we're still working on this

808  
00:34:39,490 --> 00:34:36,500  
problem of visualizing phantom leaf and

809  
00:34:42,399 --> 00:34:39,500  
phantom limb and here's with anna

810  
00:34:45,069 --> 00:34:42,409  
surgeon leaf a circular leaf and then

811  
00:34:49,359 --> 00:34:45,079  
there it is the leaf with the cut

812  
00:34:51,280 --> 00:34:49,369  
whereby the cut is seen so i mean doing

813  
00:34:53,829 --> 00:34:51,290

for time so the last thing i want to

814

00:34:57,240 --> 00:34:53,839

talk about is the sensor suite and this

815

00:35:00,670 --> 00:34:57,250

is really our own development completely

816

00:35:02,620 --> 00:35:00,680

that harry jobs built and we've been

817

00:35:07,270 --> 00:35:02,630

studying people with this what is it

818

00:35:09,640 --> 00:35:07,280

it's a group of sensors three categories

819

00:35:11,200 --> 00:35:09,650

of them we have environmental sensors

820

00:35:14,109 --> 00:35:11,210

because we're concerned about the

821

00:35:15,809 --> 00:35:14,119

interaction of geo cosmic rhythms with

822

00:35:19,300 --> 00:35:15,819

the bio field it's well known that

823

00:35:23,410 --> 00:35:19,310

really can't draw a line between our own

824

00:35:25,930 --> 00:35:23,420

body fields and earth and geo cosmic

825

00:35:27,250 --> 00:35:25,940

fields because it's really nature is

826

00:35:28,690 --> 00:35:27,260

really one piece when you

827

00:35:30,580 --> 00:35:28,700

start talking about fields you can't

828

00:35:33,310 --> 00:35:30,590

really say here's the boundary of my

829

00:35:35,560 --> 00:35:33,320

field next to yours we influence one

830

00:35:37,150 --> 00:35:35,570

another and the geo cosmos is

831

00:35:39,490 --> 00:35:37,160

influencing us so it's we just have a

832

00:35:41,890 --> 00:35:39,500

field in which we are embedded in which

833

00:35:43,900 --> 00:35:41,900

we shine our own light but these things

834

00:35:47,200 --> 00:35:43,910

interact so we have environmental

835

00:35:49,570 --> 00:35:47,210

sensors magnetometers temperature

836

00:35:53,650 --> 00:35:49,580

humidity sensors alpha beta gamma

837

00:35:55,990 --> 00:35:53,660

detectors for radioactivity and we have

838

00:35:58,960 --> 00:35:56,000

peripheral physiological sensors we have

839

00:36:01,240 --> 00:35:58,970

for example galvanic skin response which

840

00:36:04,530 --> 00:36:01,250

senses conductivity or sweat of fingers

841

00:36:07,720 --> 00:36:04,540

and is related to arousal we have

842

00:36:10,300 --> 00:36:07,730

perfusion index being measured level of

843

00:36:13,180 --> 00:36:10,310

oxygen in the blood and we have the

844

00:36:16,870 --> 00:36:13,190

capacity to do HRV although we haven't

845

00:36:19,720 --> 00:36:16,880

added that yet to the sensor prototype

846

00:36:21,610 --> 00:36:19,730

but then we have detectors that we call

847

00:36:25,200 --> 00:36:21,620

subtle energy detectors that we have

848

00:36:27,760 --> 00:36:25,210

completely shielded from known energy

849

00:36:31,750 --> 00:36:27,770

possibilities for example in Faraday

850

00:36:33,790 --> 00:36:31,760

cages house optically shielded thermally

851  
00:36:36,850 --> 00:36:33,800  
shielded etc so that no conventional

852  
00:36:38,680 --> 00:36:36,860  
fields can get through but and and we

853  
00:36:40,780 --> 00:36:38,690  
did this because we were looking for

854  
00:36:43,180 --> 00:36:40,790  
something beyond we were looking for the

855  
00:36:46,720 --> 00:36:43,190  
proverbial subtle energy that went

856  
00:36:48,760 --> 00:36:46,730  
beyond conventional energies as we know

857  
00:36:51,040 --> 00:36:48,770  
it and we have found things that

858  
00:36:53,260 --> 00:36:51,050  
apparently are either emitted by the

859  
00:36:55,240 --> 00:36:53,270  
human body or manipulated by the human

860  
00:36:59,230 --> 00:36:55,250  
body if there's these energies are

861  
00:37:01,990 --> 00:36:59,240  
surrounding us and that may be

862  
00:37:03,700 --> 00:37:02,000  
associated with the bio field so we do

863  
00:37:05,770 --> 00:37:03,710

this with real-time computer data

864

00:37:08,290 --> 00:37:05,780

acquisition and we have all the sensors

865

00:37:10,330 --> 00:37:08,300

feeding 24/7 and we're studying the bio

866

00:37:11,860 --> 00:37:10,340

field in conjunction then with Geo

867

00:37:14,530 --> 00:37:11,870

cosmic factors and shifts in

868

00:37:17,350 --> 00:37:14,540

consciousness so here's an example of

869

00:37:21,240 --> 00:37:17,360

subject at the sensor sweet hooked up

870

00:37:24,430 --> 00:37:21,250

and being studied and we have a demotion

871

00:37:27,730 --> 00:37:24,440

dynamic emotional detector we have a

872

00:37:29,800 --> 00:37:27,740

detector that senses emotions positive

873

00:37:32,140 --> 00:37:29,810

and negative that is not on the body but

874

00:37:34,630 --> 00:37:32,150

in the near field doesn't require a

875

00:37:37,480 --> 00:37:34,640

probe on the body and that's an advanced

876  
00:37:38,340 --> 00:37:37,490  
over GSR which only senses arousal and

877  
00:37:40,470 --> 00:37:38,350  
cannot tell you

878  
00:37:42,830 --> 00:37:40,480  
they're positive or negative effect and

879  
00:37:45,420 --> 00:37:42,840  
requires of course placement on the body

880  
00:37:47,520 --> 00:37:45,430  
so we're very excited about this and I

881  
00:37:50,130 --> 00:37:47,530  
see a lot of potential applications to

882  
00:37:53,010 --> 00:37:50,140  
consciousness studies to add a dimension

883  
00:37:54,870 --> 00:37:53,020  
of looking at the emotional arousal and

884  
00:37:56,760 --> 00:37:54,880  
whether it's positive or negative in

885  
00:37:59,490 --> 00:37:56,770  
some of your research on consciousness

886  
00:38:02,160 --> 00:37:59,500  
and I can imagine that we'll have

887  
00:38:04,290 --> 00:38:02,170  
biofeedback devices for levels of

888  
00:38:06,330 --> 00:38:04,300

intention with emotional charge soon and

889

00:38:09,270 --> 00:38:06,340

we're seeking funding right now for the

890

00:38:11,580 --> 00:38:09,280

next stage of R&D so basically what we'd

891

00:38:13,260 --> 00:38:11,590

like to do is map the human bio field I

892

00:38:15,690 --> 00:38:13,270

have a team of people that really wants

893

00:38:17,610 --> 00:38:15,700

to do this but we lack funding as you

894

00:38:19,320 --> 00:38:17,620

know we had the human genome Genome

895

00:38:21,750 --> 00:38:19,330

Project which led to the very

896

00:38:24,870 --> 00:38:21,760

uninspiring result that we have less

897

00:38:27,690 --> 00:38:24,880

genes than a grain of rice and it can't

898

00:38:29,580 --> 00:38:27,700

all be there folks so we're looking to

899

00:38:31,380 --> 00:38:29,590

map the human bio field if you know of

900

00:38:33,120 --> 00:38:31,390

any sources of funding we'd be very

901  
00:38:35,100 --> 00:38:33,130  
grateful to move forward and I have

902  
00:38:37,860 --> 00:38:35,110  
assembled quite a team internationally

903  
00:38:39,540 --> 00:38:37,870  
ready to do that publications are on our

904  
00:38:41,520 --> 00:38:39,550  
website acknowledging certain

905  
00:38:44,730 --> 00:38:41,530  
foundations are also individuals who

906  
00:38:46,230 --> 00:38:44,740  
have helped us enormously and I'd like

907  
00:38:48,300 --> 00:38:46,240  
to invite you to the u.s. psychotronics

908  
00:38:49,980 --> 00:38:48,310  
conference next month if you're

909  
00:38:53,500 --> 00:38:49,990  
interested in devices and intention

910  
00:39:06,470 --> 00:38:53,510  
that's our specialty thank you very much

911  
00:39:14,760 --> 00:39:11,910  
but for questions thank you there was a

912  
00:39:19,320 --> 00:39:14,770  
really interesting question about

913  
00:39:22,140 --> 00:39:19,330

biophotons is the source of the bio

914

00:39:25,640 --> 00:39:22,150

photon is there local heating associated

915

00:39:28,530 --> 00:39:25,650

with it or is it a change in chemistry

916

00:39:29,430 --> 00:39:28,540

what what is the source that's a good

917

00:39:31,290 --> 00:39:29,440

question I

918

00:39:34,380 --> 00:39:31,300

I know Fritz pop believes it's the DNA

919

00:39:36,900 --> 00:39:34,390

I'm not convinced that it's the DNA the

920

00:39:38,910 --> 00:39:36,910

DNA and supercoiling states etc it is

921

00:39:43,020 --> 00:39:38,920

visible light our detector is sensitive

922

00:39:44,940 --> 00:39:43,030

from 350 to 650 nanometers so we're

923

00:39:46,590 --> 00:39:44,950

looking at visible light and we don't

924

00:39:48,510 --> 00:39:46,600

really understand the source I think

925

00:39:50,760 --> 00:39:48,520

it's probably multiple I don't think

926

00:39:54,660 --> 00:39:50,770

it's simple so from a spectral response

927

00:39:57,120 --> 00:39:54,670

you could see luminescent Peaks and then

928

00:40:00,210 --> 00:39:57,130

you could also see a shift in the

929

00:40:02,070 --> 00:40:00,220

blackbody spectrum emission and so you

930

00:40:04,140 --> 00:40:02,080

probably could distinguish right well

931

00:40:05,970 --> 00:40:04,150

the problem is we don't have a detector

932

00:40:07,920 --> 00:40:05,980

where we can distinguish those Peaks in

933

00:40:10,140 --> 00:40:07,930

the visible spectrum we would have to

934

00:40:12,540 --> 00:40:10,150

take apart that I'm Ahmad so device and

935

00:40:15,930 --> 00:40:12,550

it's a about a \$3,000 device and try to

936

00:40:17,610 --> 00:40:15,940

rework it according to that or we use

937

00:40:20,160 --> 00:40:17,620

filters but the light is so low level

938

00:40:22,680 --> 00:40:20,170

that that might be difficult to really

939

00:40:25,200 --> 00:40:22,690

find those Peaks but I agree with you in

940

00:40:27,360 --> 00:40:25,210

principle and we are thinking about this

941

00:40:29,780 --> 00:40:27,370

deeply okay we should talk thank you

942

00:40:34,050 --> 00:40:29,790

this in my lab okay

943

00:40:37,140 --> 00:40:34,060

if the bio photons are coherent could

944

00:40:39,960 --> 00:40:37,150

their amplitudes be detected and perhaps

945

00:40:41,610 --> 00:40:39,970

a pattern be detected and measured to

946

00:40:45,840 --> 00:40:41,620

see what information what kind of

947

00:40:47,430 --> 00:40:45,850

information is being transmitted well

948

00:40:50,010 --> 00:40:47,440

you know first pop thinks they're

949

00:40:52,020 --> 00:40:50,020

coherent and quantum coherence of very

950

00:40:55,440 --> 00:40:52,030

low-level light I must admit as a very

951  
00:40:57,090 --> 00:40:55,450  
tricky realm of squeezed light and

952  
00:41:01,470 --> 00:40:57,100  
quantum theory and I don't understand it

953  
00:41:03,390 --> 00:41:01,480  
fully myself so what was the rest of

954  
00:41:05,640 --> 00:41:03,400  
your question how to detect the

955  
00:41:07,860 --> 00:41:05,650  
amplitude of the bio photon in order to

956  
00:41:10,320 --> 00:41:07,870  
do well the amplitude is counting the

957  
00:41:10,760 --> 00:41:10,330  
photons is really a measure of the

958  
00:41:13,280 --> 00:41:10,770  
intense

959  
00:41:15,200 --> 00:41:13,290  
you're the amplitude so what more what

960  
00:41:18,260 --> 00:41:15,210  
more could you do along those lines

961  
00:41:21,170 --> 00:41:18,270  
well perhaps to try to understand what

962  
00:41:23,600 --> 00:41:21,180  
they what's the information pattern yes

963  
00:41:25,100 --> 00:41:23,610

and I have to say studies and human

964

00:41:27,260 --> 00:41:25,110

beings are really lacking there's the

965

00:41:29,540 --> 00:41:27,270

work by roland van Wyk and his son and

966

00:41:31,550 --> 00:41:29,550

the prior work by fritz pop there's very

967

00:41:35,570 --> 00:41:31,560

few laboratories and then there's the

968

00:41:37,910 --> 00:41:35,580

lab here with John in the Rhine

969

00:41:40,100 --> 00:41:37,920

Institute I don't know of any any other

970

00:41:41,720 --> 00:41:40,110

labs really doing this so there's so

971

00:41:43,850 --> 00:41:41,730

many questions to be addressed and we

972

00:41:47,120 --> 00:41:43,860

would love to address them again funding

973

00:41:51,530 --> 00:41:47,130

is always an issue and a great question

974

00:41:55,220 --> 00:41:51,540

and how does the plasma s IDI detector

975

00:41:57,380 --> 00:41:55,230

work the one for subtle energies well

976  
00:41:59,660 --> 00:41:57,390  
actually because we're patenting it I'm

977  
00:42:01,460 --> 00:41:59,670  
not going to say much about it at this

978  
00:42:03,410 --> 00:42:01,470  
time because we're in progress of

979  
00:42:05,510 --> 00:42:03,420  
writing that patent but we hope to get

980  
00:42:07,400 --> 00:42:05,520  
out a product that's the plan and we

981  
00:42:09,650 --> 00:42:07,410  
think it has a lot of application and by

982  
00:42:12,280 --> 00:42:09,660  
the way adding measuring the bio field

983  
00:42:15,980 --> 00:42:12,290  
would really be a great addition to

984  
00:42:18,410 --> 00:42:15,990  
adding to your physiological measures of

985  
00:42:20,600 --> 00:42:18,420  
psychoenergetic states that many of you

986  
00:42:22,910 --> 00:42:20,610  
are looking at what happens when psy is

987  
00:42:25,400 --> 00:42:22,920  
enhanced what really is that state and

988  
00:42:27,290 --> 00:42:25,410

understanding the bio field in addition

989

00:42:29,930 --> 00:42:27,300

to physiology I think would be a

990

00:42:36,380 --> 00:42:29,940

tremendous addition to the research in

991

00:42:39,740 --> 00:42:36,390

general here thank you for your UV

992

00:42:44,210 --> 00:42:39,750

studies maybe shams the piece where you

993

00:42:46,370 --> 00:42:44,220

had non healers making the same motions

994

00:42:49,190 --> 00:42:46,380

and saying the same words as the healers

995

00:42:51,140 --> 00:42:49,200

and looking at the response no I haven't

996

00:42:52,580 --> 00:42:51,150

done any sham studies there are

997

00:42:54,170 --> 00:42:52,590

certainly issues with sham studies

998

00:42:56,810 --> 00:42:54,180

because wherever there's a human being

999

00:42:58,310 --> 00:42:56,820

there's a bio field and you can say I

1000

00:42:59,660 --> 00:42:58,320

don't have intention but I'm going to

1001

00:43:03,770 --> 00:42:59,670

wave my hand and then think about

1002

00:43:05,710 --> 00:43:03,780

elephants but I think there's problems

1003

00:43:10,400 --> 00:43:05,720

with shams I don't particularly enjoy

1004

00:43:12,050 --> 00:43:10,410

doing sham controls with humans my study

1005

00:43:14,000 --> 00:43:12,060

the bio field in my lab with a

1006

00:43:15,680 --> 00:43:14,010

low-frequency magnetometer and I've

1007

00:43:17,810 --> 00:43:15,690

actually seen changes with emotions

1008

00:43:19,430 --> 00:43:17,820

positive and negative emotions you don't

1009

00:43:21,770 --> 00:43:19,440

give us any details of your motion

1010

00:43:23,150 --> 00:43:21,780

detector understands proprietary but

1011

00:43:23,440 --> 00:43:23,160

surely you could tell us whether you're

1012

00:43:25,420 --> 00:43:23,450

doing

1013

00:43:26,920 --> 00:43:25,430

a magnetic field or electric field I

1014

00:43:29,110 --> 00:43:26,930

mean there's so many variations of those

1015

00:43:31,720 --> 00:43:29,120

well I told you already that that plant

1016

00:43:34,120 --> 00:43:31,730

that detector of for the emotional

1017

00:43:38,680 --> 00:43:34,130

dynamic detector is none of those

1018

00:43:41,200 --> 00:43:38,690

energies well it's we shield the

1019

00:43:42,460 --> 00:43:41,210

detector that's how we're looking for

1020

00:43:44,560 --> 00:43:42,470

something beyond conventional

1021

00:43:47,440 --> 00:43:44,570

electromagnetism beyond electric beyond

1022

00:43:49,390 --> 00:43:47,450

magnetic beyond proton it is a subtle

1023

00:43:57,610 --> 00:43:49,400

energy detector and so it has no

1024

00:43:59,350 --> 00:43:57,620

conventional we're getting rid of

1025

00:44:00,910 --> 00:43:59,360

everything we've we've measured that

1026  
00:44:02,830 --> 00:44:00,920  
there's nothing there and we even if

1027  
00:44:04,380 --> 00:44:02,840  
there misters in there to be sure the

1028  
00:44:06,150 --> 00:44:04,390  
temperatures not going up and

1029  
00:44:08,260 --> 00:44:06,160  
acoustically optically

1030  
00:44:13,170 --> 00:44:08,270  
electromagnetically it's completely

1031  
00:44:16,000 --> 00:44:13,180  
shielded yes the magnetometer is

1032  
00:44:20,190 --> 00:44:16,010  
constantly being monitored 24/7 as a

1033  
00:44:22,960 --> 00:44:20,200  
matter of fact you're doing amazing work

1034  
00:44:28,300 --> 00:44:22,970  
really really great work thank you John

1035  
00:44:29,770 --> 00:44:28,310  
that means a lot to me do you see

1036  
00:44:32,200 --> 00:44:29,780  
correlation between our electrical

1037  
00:44:34,120 --> 00:44:32,210  
phenomena tog Rafi and your bio photon

1038  
00:44:36,610 --> 00:44:34,130

counts are you able to do that and

1039

00:44:38,560 --> 00:44:36,620

second are you collecting qualitative

1040

00:44:41,380 --> 00:44:38,570

data and trying to correlate that with

1041

00:44:43,930 --> 00:44:41,390

the activity we're gonna start adding

1042

00:44:45,880 --> 00:44:43,940

more qualitative data we had that those

1043

00:44:46,630 --> 00:44:45,890

sentences from healers spoken while in

1044

00:44:48,550 --> 00:44:46,640

the chamber

1045

00:44:50,710 --> 00:44:48,560

oh my guides have arrived now the energy

1046

00:44:53,620 --> 00:44:50,720

is really flowing and yes the peak is

1047

00:44:55,360 --> 00:44:53,630

starting so it's very important to have

1048

00:44:56,890 --> 00:44:55,370

the qualitative and the quantitative

1049

00:44:58,960 --> 00:44:56,900

data brought together in these studies

1050

00:45:04,360 --> 00:44:58,970

I'm all for you and the other question

1051

00:45:06,100 --> 00:45:04,370

was you know that's really tricky

1052

00:45:08,110 --> 00:45:06,110

because you can't really run them at the

1053

00:45:09,730 --> 00:45:08,120

same time one is such a bright lighting

1054

00:45:13,330 --> 00:45:09,740

mission you can't pull it into the bio

1055

00:45:14,770 --> 00:45:13,340

photon chamber would destroy the PMT but

1056

00:45:17,200 --> 00:45:14,780

people are always fluctuating

1057

00:45:18,730 --> 00:45:17,210

dynamically too but I can tell you that

1058

00:45:20,710 --> 00:45:18,740

in general I I don't expect that

1059

00:45:22,870 --> 00:45:20,720

correlation one is an induced light

1060

00:45:25,780 --> 00:45:22,880

emission the other is a natural light

1061

00:45:28,090 --> 00:45:25,790

emission and in all the various ways to

1062

00:45:29,740 --> 00:45:28,100

analyze the bio field I would say the

1063

00:45:32,530 --> 00:45:29,750

only thing that I see in common between

1064

00:45:34,990 --> 00:45:32,540

them is whether we can talk about

1065

00:45:36,960 --> 00:45:35,000

autonomic balance sympathetic to

1066

00:45:39,810 --> 00:45:36,970

parasympathetic ratio we can

1067

00:45:42,900 --> 00:45:39,820

analyze for this with the various even

1068

00:45:44,790 --> 00:45:42,910

acupuncture murnian stress and I would

1069

00:45:48,930 --> 00:45:44,800

say that is about the only thing that

1070

00:45:49,560 --> 00:45:48,940

they have in common I look forward to

1071

00:45:52,330 --> 00:45:49,570

that thank you