

1  
00:00:00,600 --> 00:00:08,509  
[Music]

2  
00:00:11,830 --> 00:00:16,820  
so we recognize that science is not

3  
00:00:14,718 --> 00:00:19,609  
something magical or even something

4  
00:00:16,820 --> 00:00:22,609  
fixed it's a man-made it's a social

5  
00:00:19,609 --> 00:00:24,739  
institution and the process of becoming

6  
00:00:22,609 --> 00:00:27,469  
the science we know today it's pushed

7  
00:00:24,739 --> 00:00:29,929  
aside other perspectives on reality

8  
00:00:27,469 --> 00:00:35,179  
first religion and then some other

9  
00:00:29,929 --> 00:00:37,909  
options sciences today mankind's

10  
00:00:35,179 --> 00:00:40,488  
greatest generator of new knowledge and

11  
00:00:37,909 --> 00:00:43,429  
it's also a verifier of new knowledge

12  
00:00:40,488 --> 00:00:47,169  
regardless of where it comes from the

13  
00:00:43,429 --> 00:00:50,088  
beta the database is absolutely huge

14  
00:00:47,170 --> 00:00:52,640  
science is a major force in modern

15  
00:00:50,088 --> 00:00:56,750  
society like it or not and it has many

16  
00:00:52,640 --> 00:01:00,170  
worldly classical consequences some good

17  
00:00:56,750 --> 00:01:03,109  
some bad now science works through the

18  
00:01:00,170 --> 00:01:09,079  
societal paradigm within which we live

19  
00:01:03,109 --> 00:01:11,450  
and even though the paradigm was

20  
00:01:09,079 --> 00:01:15,319  
initiated by science starting a few

21  
00:01:11,450 --> 00:01:19,189  
hundred years ago the paradigm now

22  
00:01:15,319 --> 00:01:22,478  
pervades every aspect of modern life it

23  
00:01:19,188 --> 00:01:25,758  
controls the uses of science

24  
00:01:22,478 --> 00:01:28,688  
applications it has many practical

25  
00:01:25,759 --> 00:01:32,118  
effects upon mankind and his planet and

26  
00:01:28,688 --> 00:01:36,228  
it's prevalent and dominating presence

27  
00:01:32,118 --> 00:01:39,468  
for every one of us by golly whether

28  
00:01:36,228 --> 00:01:41,569  
you're a scientist or you're not it

29

00:01:39,468 --> 00:01:44,059  
governs how you think about yourself and

30  
00:01:41,569 --> 00:01:46,459  
your place in the world I got it sets

31  
00:01:44,060 --> 00:01:49,189  
much of your personal system of values

32  
00:01:46,459 --> 00:01:52,608  
attitudes and beliefs if you don't

33  
00:01:49,188 --> 00:01:54,709  
accept that just look a little deeper it

34  
00:01:52,608 --> 00:01:56,809  
struggling influences your ability to

35  
00:01:54,709 --> 00:01:59,419  
discriminate from one thing into the

36  
00:01:56,810 --> 00:02:01,549  
next and the decisions that you make and

37  
00:01:59,420 --> 00:02:06,710  
the relationships with people that you

38  
00:02:01,549 --> 00:02:08,780  
set up it's always there well science is

39  
00:02:06,709 --> 00:02:11,090  
changing now I think you can agree with

40  
00:02:08,780 --> 00:02:13,699  
that and the paradigm is changing too

41  
00:02:11,090 --> 00:02:18,460  
although much slower it's going to take

42  
00:02:13,699 --> 00:02:18,459  
generations to make a significant shift

43  
00:02:19,340 --> 00:02:24,769

centered central to all of this is to

44

00:02:22,169 --> 00:02:31,500

understand the limitations of science

45

00:02:24,769 --> 00:02:33,890

and how they're becoming more apparent

46

00:02:31,500 --> 00:02:37,169

with every generation

47

00:02:33,889 --> 00:02:39,268

what are these shortcomings of modern

48

00:02:37,169 --> 00:02:42,509

science let's spell them out

49

00:02:39,269 --> 00:02:45,209

many observed anomalous phenomena are

50

00:02:42,509 --> 00:02:48,030

taking place to which science has no

51

00:02:45,209 --> 00:02:51,659

understanding an explanation or even in

52

00:02:48,030 --> 00:02:54,959

many cases any means of exploring we all

53

00:02:51,659 --> 00:02:57,239

know about that one there occurring in

54

00:02:54,959 --> 00:02:59,239

psychology parapsychology the social

55

00:02:57,239 --> 00:03:02,670

sciences and even in quantum physics

56

00:02:59,239 --> 00:03:05,549

where human extension extends well

57

00:03:02,669 --> 00:03:08,399

beyond our senses and our instruments we

58  
00:03:05,549 --> 00:03:11,099  
know that now the human mind is an

59  
00:03:08,400 --> 00:03:12,930  
active agent and the observations that

60  
00:03:11,098 --> 00:03:15,988  
were making the experiments that were

61  
00:03:12,930 --> 00:03:19,640  
conducting not especially in healing the

62  
00:03:15,989 --> 00:03:22,110  
mind is involved for heaven's sakes

63  
00:03:19,639 --> 00:03:24,179  
there are instantaneous physical

64  
00:03:22,110 --> 00:03:26,160  
interactions that can occur over great

65  
00:03:24,180 --> 00:03:30,090  
distances and some effects sometimes

66  
00:03:26,159 --> 00:03:33,449  
precede their causes top-down effects

67  
00:03:30,090 --> 00:03:35,459  
are real as much as if not more than the

68  
00:03:33,449 --> 00:03:37,939  
bottom-up effects that we get through

69  
00:03:35,459 --> 00:03:40,379  
our reductionism

70  
00:03:37,939 --> 00:03:43,289  
something's wrong with randomness it's

71  
00:03:40,379 --> 00:03:46,009  
not exactly what we think it is there

72  
00:03:43,289 --> 00:03:49,259  
are hidden factors taking place

73  
00:03:46,009 --> 00:03:52,590  
double-blind experiments well we've been

74  
00:03:49,259 --> 00:03:54,689  
living right in for a long time but we

75  
00:03:52,590 --> 00:03:56,099  
find out through our experiments that no

76  
00:03:54,689 --> 00:03:58,919  
one is fully blind

77  
00:03:56,099 --> 00:04:01,680  
how can you conduct a randomized control

78  
00:03:58,919 --> 00:04:04,429  
experiment when everybody knows at least

79  
00:04:01,680 --> 00:04:08,549  
at a subconscious level what's going on

80  
00:04:04,430 --> 00:04:11,609  
the second major shortcoming is that

81  
00:04:08,549 --> 00:04:14,189  
science is based on a set of root

82  
00:04:11,609 --> 00:04:18,269  
metaphysical assumptions that limit what

83  
00:04:14,189 --> 00:04:20,759  
it's qualified to explore and you know

84  
00:04:18,269 --> 00:04:23,728  
if your assumptions are violated or not

85  
00:04:20,759 --> 00:04:26,990  
supported you can't trust your results

86

00:04:23,728 --> 00:04:32,128  
right we require objectivity

87  
00:04:26,990 --> 00:04:35,699  
measurability replicability and we have

88  
00:04:32,129 --> 00:04:39,509  
we are assuming causality mainly through

89  
00:04:35,699 --> 00:04:43,259  
reductionism the third difficulty with

90  
00:04:39,509 --> 00:04:45,689  
science is that it has no built-in set

91  
00:04:43,259 --> 00:04:48,929  
of values to govern inquiry and

92  
00:04:45,689 --> 00:04:51,419  
especially application any and all

93  
00:04:48,928 --> 00:04:54,118  
applicate explorations in science are

94  
00:04:51,418 --> 00:04:57,118  
fair game right regardless of the

95  
00:04:54,119 --> 00:05:00,659  
consequences and this is a sacred right

96  
00:04:57,119 --> 00:05:03,029  
among scientists and some of those

97  
00:05:00,658 --> 00:05:10,978  
consequences are pretty horrendous you

98  
00:05:03,028 --> 00:05:16,168  
must agree well how are we going to deal

99  
00:05:10,978 --> 00:05:18,899  
with all this first we can observe one

100  
00:05:16,168 --> 00:05:22,799

thing that there's a serious gap between

101

00:05:18,899 --> 00:05:25,139

the science and human life what science

102

00:05:22,800 --> 00:05:27,959

is saying about humans and what we know

103

00:05:25,139 --> 00:05:31,528

from our own experience as being humans

104

00:05:27,959 --> 00:05:34,079

doesn't quite match so in the human area

105

00:05:31,528 --> 00:05:36,800

science is a weak means for both

106

00:05:34,079 --> 00:05:40,288

discovery and validation the two major

107

00:05:36,800 --> 00:05:43,110

activities of science finding out new

108

00:05:40,288 --> 00:05:46,588

potential knowledge and verifying

109

00:05:43,110 --> 00:05:48,088

whether knowledge is true or not so this

110

00:05:46,588 --> 00:05:50,338

implies that we're going to have to go

111

00:05:48,088 --> 00:05:51,718

back to fundamentals right where does

112

00:05:50,338 --> 00:05:54,478

knowledge come from in the first place

113

00:05:51,718 --> 00:05:58,259

how do we gain access to it in order to

114

00:05:54,478 --> 00:06:00,959

generate new knowledge why do why do we

115  
00:05:58,259 --> 00:06:04,079  
have to go back because the shortcomings

116  
00:06:00,959 --> 00:06:07,019  
of science can't be resolved within the

117  
00:06:04,079 --> 00:06:09,028  
same with the same level of at the same

118  
00:06:07,019 --> 00:06:13,559  
level perception of which they've become

119  
00:06:09,028 --> 00:06:15,418  
apparent we've got a step beyond we need

120  
00:06:13,559 --> 00:06:19,769  
another way of knowing besides the

121  
00:06:15,418 --> 00:06:22,948  
familiar scientifically this is so we

122  
00:06:19,769 --> 00:06:25,528  
can extend the present-day science into

123  
00:06:22,949 --> 00:06:29,218  
this fuller realm to embrace the mind

124  
00:06:25,528 --> 00:06:33,538  
and human factors as we know them

125  
00:06:29,218 --> 00:06:36,178  
personally so well so the solution must

126  
00:06:33,538 --> 00:06:39,628  
somehow derive from the subjective nam

127  
00:06:36,178 --> 00:06:41,348  
material a causal metal and parsley

128  
00:06:39,629 --> 00:06:43,300  
timeless domain

129  
00:06:41,348 --> 00:06:46,628  
from which the anomalous potential are

130  
00:06:43,300 --> 00:06:49,710  
arising we just can't avoid this we've

131  
00:06:46,629 --> 00:06:52,449  
got a dip in there for our solution

132  
00:06:49,709 --> 00:06:54,310  
important to SSC we were darn right

133  
00:06:52,449 --> 00:06:57,310  
we're already on the leading edge

134  
00:06:54,310 --> 00:06:59,560  
because we're exploring these many

135  
00:06:57,310 --> 00:07:02,348  
anomalous phenomena and how they're

136  
00:06:59,560 --> 00:07:05,918  
working we've got to continue doing this

137  
00:07:02,348 --> 00:07:07,449  
this is our charge but unfortunately

138  
00:07:05,918 --> 00:07:09,818  
we're still trying to study these

139  
00:07:07,449 --> 00:07:12,330  
anomalies by using the old methodology

140  
00:07:09,819 --> 00:07:16,360  
or at least a lot of us are doing this

141  
00:07:12,329 --> 00:07:19,269  
that's not gonna work so a major focus

142  
00:07:16,360 --> 00:07:21,129  
is needed now on new methodologies new

143

00:07:19,269 --> 00:07:28,959  
ways of knowing new ways of acquiring

144  
00:07:21,129 --> 00:07:31,000  
knowledge that's our next challenge well

145  
00:07:28,959 --> 00:07:34,149  
what I want to do and the rest of my

146  
00:07:31,000 --> 00:07:36,699  
time is to present another way of

147  
00:07:34,149 --> 00:07:40,810  
acquiring knowledge that we could use

148  
00:07:36,699 --> 00:07:46,139  
may use in future science and give

149  
00:07:40,810 --> 00:07:46,139  
evidence as to why it works okay

150  
00:07:48,779 --> 00:07:55,109  
first of all man possesses I'll make

151  
00:07:52,949 --> 00:07:58,050  
this as an assertion and try to justify

152  
00:07:55,110 --> 00:08:00,810  
it certainly man possesses an innate

153  
00:07:58,050 --> 00:08:03,449  
capacity for accessing new information

154  
00:08:00,810 --> 00:08:05,610  
and knowledge directly without recourse

155  
00:08:03,449 --> 00:08:09,360  
to rationality sense perception or

156  
00:08:05,610 --> 00:08:12,389  
memory it's rightly called intuition or

157  
00:08:09,360 --> 00:08:15,120

direct knowing or innate knowing or

158

00:08:12,389 --> 00:08:19,500

knows the Greek term from which we get

159

00:08:15,120 --> 00:08:21,600

gnosis and no Eddings intuitions a

160

00:08:19,500 --> 00:08:23,639

universal Faculty of the mind is

161

00:08:21,600 --> 00:08:28,500

practiced everywhere throughout human

162

00:08:23,639 --> 00:08:31,469

history and widely up until the rise of

163

00:08:28,500 --> 00:08:33,960

science itself it's an essential part of

164

00:08:31,470 --> 00:08:38,149

thought but it functions invisibly and

165

00:08:33,960 --> 00:08:40,680

in the background it shows itself in

166

00:08:38,149 --> 00:08:43,559

serendipities and insights revelations

167

00:08:40,679 --> 00:08:48,239

gut feelings and the others that I've

168

00:08:43,559 --> 00:08:52,289

listed here mainly and if not entirely

169

00:08:48,240 --> 00:08:53,820

when the intellect is put at rest and

170

00:08:52,289 --> 00:08:56,929

turned off momentarily

171

00:08:53,820 --> 00:09:00,030

then it didn't then it leaks through

172  
00:08:56,929 --> 00:09:02,609  
more over intuition isn't a special gift

173  
00:09:00,029 --> 00:09:05,039  
that it belongs to a few people but it

174  
00:09:02,610 --> 00:09:07,769  
belongs to everybody that can develop be

175  
00:09:05,039 --> 00:09:10,319  
developed intentionally by anyone

176  
00:09:07,769 --> 00:09:14,250  
there's a very good evidence that this

177  
00:09:10,320 --> 00:09:16,730  
is so rather Hugh persons choose to

178  
00:09:14,250 --> 00:09:19,740  
develop intuition deliberately however

179  
00:09:16,730 --> 00:09:22,200  
how there's a class though of expert

180  
00:09:19,740 --> 00:09:24,139  
intuitive I call them that have done

181  
00:09:22,200 --> 00:09:27,870  
this and developed their intuitive

182  
00:09:24,139 --> 00:09:30,809  
ability into a refined skill you can do

183  
00:09:27,870 --> 00:09:33,089  
this too if you want to these expert

184  
00:09:30,809 --> 00:09:37,679  
intuitive's have been shown to have

185  
00:09:33,089 --> 00:09:40,200  
access to almost any information that's

186  
00:09:37,679 --> 00:09:42,509  
a very strong statement and I hope in

187  
00:09:40,200 --> 00:09:46,560  
the rest of the talk I can show you that

188  
00:09:42,509 --> 00:09:47,429  
it's true where is it what's a source of

189  
00:09:46,559 --> 00:09:52,349  
this knowledge

190  
00:09:47,429 --> 00:09:54,419  
well it seems it seems to be well known

191  
00:09:52,350 --> 00:09:58,500  
throughout history and in different

192  
00:09:54,419 --> 00:10:01,278  
areas it's called in in one sense the

193  
00:09:58,500 --> 00:10:03,318  
collective unconscious that's Carl Jung

194  
00:10:01,278 --> 00:10:05,389  
but it also goes by several of their

195  
00:10:03,318 --> 00:10:07,458  
names we don't have to wait for an

196  
00:10:05,389 --> 00:10:11,629  
explanation of the mechanism by which

197  
00:10:07,458 --> 00:10:13,729  
this source is working we don't we don't

198  
00:10:11,629 --> 00:10:24,170  
ask this for human language even though

199  
00:10:13,730 --> 00:10:26,389  
we use it every day but it's there there

200

00:10:24,169 --> 00:10:28,519  
are popular examples of these expert

201  
00:10:26,389 --> 00:10:31,068  
intuitive so actually are functioning in

202  
00:10:28,519 --> 00:10:33,799  
the world many mystics prophets artists

203  
00:10:31,068 --> 00:10:36,289  
scientists and the best of today's

204  
00:10:33,799 --> 00:10:39,799  
spiritual teachers are functioning with

205  
00:10:36,289 --> 00:10:42,498  
intuition in this very effective way in

206  
00:10:39,799 --> 00:10:45,349  
the 1980s and this at the center of

207  
00:10:42,499 --> 00:10:48,350  
applied intuition in San Francisco we

208  
00:10:45,350 --> 00:10:53,389  
asked a question how far can we go in

209  
00:10:48,350 --> 00:10:55,699  
obtaining new knowledge intuitively what

210  
00:10:53,389 --> 00:10:58,749  
breadth of knowledge and how deeply can

211  
00:10:55,698 --> 00:11:03,588  
we go on how are you see is it to do it

212  
00:10:58,749 --> 00:11:06,740  
these expert intuitive's we use 10 of

213  
00:11:03,589 --> 00:11:08,809  
them and applied them to 15 unsolved

214  
00:11:06,740 --> 00:11:11,568

problems that hadn't been accessible to

215

00:11:08,808 --> 00:11:16,039

ordinary scientific or other means of

216

00:11:11,568 --> 00:11:20,019

solution the first four of them

217

00:11:16,039 --> 00:11:23,558

earthquake triggering bipolar depression

218

00:11:20,019 --> 00:11:28,459

HIV and recover of recovery of lost

219

00:11:23,558 --> 00:11:32,000

languages were all open unsolved

220

00:11:28,458 --> 00:11:34,429

problems and moreover they were amenable

221

00:11:32,000 --> 00:11:39,110

to scientific validation if we could get

222

00:11:34,429 --> 00:11:41,989

good answers ok several others were also

223

00:11:39,110 --> 00:11:45,318

unsolved but we were not optimistic

224

00:11:41,990 --> 00:11:47,178

about the possibility of solving them

225

00:11:45,318 --> 00:11:50,169

that is of getting evidence that would

226

00:11:47,178 --> 00:11:52,639

show that what we came up with is right

227

00:11:50,169 --> 00:11:54,860

cause and treatment a sudden infant

228

00:11:52,639 --> 00:11:57,169

death syndrome decontamination of

229  
00:11:54,860 --> 00:12:03,409  
nuclear waste material recovery of lost

230  
00:11:57,169 --> 00:12:06,799  
history and biographies of Imhotep

231  
00:12:03,409 --> 00:12:10,370  
and the pre-christian Jesus as Jesus

232  
00:12:06,799 --> 00:12:13,789  
before the church took over took him

233  
00:12:10,370 --> 00:12:16,818  
over those red spots there indicate that

234  
00:12:13,789 --> 00:12:18,769  
their books available in the bookstore

235  
00:12:16,818 --> 00:12:24,349  
if you want to pursue easier these

236  
00:12:18,769 --> 00:12:28,188  
further so information from me for these

237  
00:12:24,350 --> 00:12:30,370  
first floor were the studies were

238  
00:12:28,188 --> 00:12:33,889  
conducted and validated through

239  
00:12:30,370 --> 00:12:36,049  
scientific methods the last one

240  
00:12:33,889 --> 00:12:40,100  
business consulting and personal

241  
00:12:36,049 --> 00:12:42,679  
counseling were self validated partially

242  
00:12:40,100 --> 00:12:46,399  
self validated just do the the actual

243  
00:12:42,679 --> 00:12:48,078  
use of them there are other similar

244  
00:12:46,399 --> 00:12:50,649  
findings that have come from non CI

245  
00:12:48,078 --> 00:12:53,479  
studies mineral exploration exploration

246  
00:12:50,649 --> 00:12:55,818  
archaeology finding lost objects

247  
00:12:53,480 --> 00:12:58,730  
military intelligence medicine medical

248  
00:12:55,818 --> 00:13:01,818  
diagnosis I think most of you know about

249  
00:12:58,730 --> 00:13:06,560  
these and these were largely self

250  
00:13:01,818 --> 00:13:08,539  
verifying these references are at the

251  
00:13:06,559 --> 00:13:13,909  
bottom but I'll put them I'll show them

252  
00:13:08,539 --> 00:13:16,068  
again at the end first first of these

253  
00:13:13,909 --> 00:13:18,049  
four areas which I'm going to discuss as

254  
00:13:16,068 --> 00:13:25,000  
evidence for the effectiveness of

255  
00:13:18,049 --> 00:13:28,659  
intuitive inquiry in the ninth in 1975

256  
00:13:25,000 --> 00:13:31,188  
seismology was virtually at a standstill

257

00:13:28,659 --> 00:13:32,600  
the earth the core of the earth had been

258  
00:13:31,188 --> 00:13:34,278  
roughly mapped and we knew her

259  
00:13:32,600 --> 00:13:35,899  
earthquakes are occurring all over the

260  
00:13:34,278 --> 00:13:38,299  
globe so we had a kind of long-range

261  
00:13:35,899 --> 00:13:40,399  
prediction of where they were going to

262  
00:13:38,299 --> 00:13:41,479  
happen next but we had no short-range

263  
00:13:40,399 --> 00:13:44,750  
prediction at all

264  
00:13:41,480 --> 00:13:46,670  
a few earth measurements are being made

265  
00:13:44,750 --> 00:13:49,009  
where the earth has lifted how much it's

266  
00:13:46,669 --> 00:13:52,818  
lifting and higher and so forth but it

267  
00:13:49,009 --> 00:13:55,459  
was trivial so an intuitive consensus

268  
00:13:52,818 --> 00:13:58,278  
study was undertaken in on earthquake

269  
00:13:55,458 --> 00:14:01,308  
triggering and its associated precursors

270  
00:13:58,278 --> 00:14:04,088  
that is the signals that could be used

271  
00:14:01,308 --> 00:14:09,068

to be measured to detect what's going on

272

00:14:04,089 --> 00:14:13,970

we used eight expert intuitive in 1975

273

00:14:09,068 --> 00:14:16,909

for and 75 for 1977 well the consensus

274

00:14:13,970 --> 00:14:19,970

was rich in new information

275

00:14:16,909 --> 00:14:23,740

here's a paragraph just so as a very

276

00:14:19,970 --> 00:14:26,240

random example taken from these studies

277

00:14:23,740 --> 00:14:30,399

I'll let you read it I won't try to read

278

00:14:26,240 --> 00:14:30,399

it myself are you able to see it okay

279

00:14:36,769 --> 00:14:44,299

well this was incredible at the time it

280

00:14:40,070 --> 00:14:46,160

was totally far out because no one had

281

00:14:44,299 --> 00:14:49,909

been looking into the atmosphere or

282

00:14:46,159 --> 00:14:51,980

space or electromagnetic phenomena there

283

00:14:49,909 --> 00:14:53,838

were no conceivable mechanisms at hand

284

00:14:51,980 --> 00:14:58,028

to explain how they could have anything

285

00:14:53,839 --> 00:14:58,029

at all to do with earthquakes all right

286  
00:14:58,059 --> 00:15:02,750  
several new precursors were named some

287  
00:15:00,740 --> 00:15:06,110  
mechanisms are explained various cross

288  
00:15:02,750 --> 00:15:08,080  
effects were identified and there was no

289  
00:15:06,110 --> 00:15:11,389  
contradiction with the firmly

290  
00:15:08,080 --> 00:15:12,800  
established seismological knowledge so

291  
00:15:11,389 --> 00:15:16,009  
what are we going to do with this

292  
00:15:12,799 --> 00:15:19,129  
well we carried it to the seismologist

293  
00:15:16,009 --> 00:15:22,100  
but nobody was interested not surprising

294  
00:15:19,129 --> 00:15:26,720  
I suppose so we published the article

295  
00:15:22,100 --> 00:15:30,680  
that an experiment forgot about it in

296  
00:15:26,720 --> 00:15:33,920  
too old one I2o one one we did a careful

297  
00:15:30,679 --> 00:15:35,750  
review of intuitive insights conducted

298  
00:15:33,919 --> 00:15:39,139  
by comparing them against published

299  
00:15:35,750 --> 00:15:41,480  
geophysics articles first in 1975 to

300  
00:15:39,139 --> 00:15:43,909  
show that this information was not

301  
00:15:41,480 --> 00:15:46,909  
already known and then again in the

302  
00:15:43,909 --> 00:15:47,828  
period up to 2010 to show what had been

303  
00:15:46,909 --> 00:15:50,958  
verified

304  
00:15:47,828 --> 00:15:53,870  
almost all the intuitive information was

305  
00:15:50,958 --> 00:15:58,039  
verified by ongoing research in that

306  
00:15:53,870 --> 00:16:00,470  
period satellite observations during the

307  
00:15:58,039 --> 00:16:04,578  
eight 1980s from other geophysical

308  
00:16:00,470 --> 00:16:07,459  
research in the 1990s and 2000's a few

309  
00:16:04,578 --> 00:16:09,399  
points were still unverified like the

310  
00:16:07,458 --> 00:16:12,019  
effects of the planets on earthquakes

311  
00:16:09,399 --> 00:16:17,600  
but nothing was found it was downright

312  
00:16:12,019 --> 00:16:19,639  
wrong several new precursors are a good

313  
00:16:17,600 --> 00:16:22,850  
bet for a future earthquake prediction

314

00:16:19,639 --> 00:16:25,220  
system seismology is now a space-based

315  
00:16:22,850 --> 00:16:28,129  
rather than a ground-based operation

316  
00:16:25,220 --> 00:16:32,540  
it's actually a big subject a major

317  
00:16:28,129 --> 00:16:34,639  
subfield of geophysics conclusion if the

318  
00:16:32,539 --> 00:16:36,588  
results of this study had been heeded

319  
00:16:34,639 --> 00:16:38,899  
earlier it could have saved much

320  
00:16:36,589 --> 00:16:41,720  
confusion in time that's for sure

321  
00:16:38,899 --> 00:16:44,690  
the intuitive consensus inquiry could

322  
00:16:41,720 --> 00:16:47,300  
easily be extended now to get more

323  
00:16:44,690 --> 00:16:49,470  
details similar studies could greatly

324  
00:16:47,299 --> 00:16:53,370  
benefit future where could you

325  
00:16:49,470 --> 00:16:56,820  
physics and science generally another

326  
00:16:53,370 --> 00:17:00,480  
area bipolar depression or manic

327  
00:16:56,820 --> 00:17:03,420  
depression manic depressive disorder at

328  
00:17:00,480 --> 00:17:05,599

this in 1980 was an almost complete

329

00:17:03,419 --> 00:17:08,250

mystery there were a few jeanna

330

00:17:05,599 --> 00:17:11,159

indications of genetic factors involved

331

00:17:08,250 --> 00:17:16,410

and lithium was being used as a partial

332

00:17:11,160 --> 00:17:18,600

treatment which way to go and intuitive

333

00:17:16,410 --> 00:17:21,630

consensus study was a undertaken using

334

00:17:18,599 --> 00:17:24,000

six expert into "tis to determine the

335

00:17:21,630 --> 00:17:29,190

best direction this work was done with

336

00:17:24,000 --> 00:17:30,869

dr. Paul Groff several new insights were

337

00:17:29,190 --> 00:17:33,480

obtained on the development and

338

00:17:30,869 --> 00:17:36,479

physiology and treatment good consensus

339

00:17:33,480 --> 00:17:39,860

on many important points major findings

340

00:17:36,480 --> 00:17:42,660

the overall problem is terribly complex

341

00:17:39,859 --> 00:17:45,629

despite very simple systems so it's like

342

00:17:42,660 --> 00:17:49,910

cancer genetic approach would be very

343  
00:17:45,630 --> 00:17:49,910  
difficult and slow

344  
00:17:50,660 --> 00:17:57,360  
lithium doses are should be reduced

345  
00:17:53,400 --> 00:18:00,920  
they're too large and 209 these findings

346  
00:17:57,359 --> 00:18:03,539  
relative to ongoing search on BD since

347  
00:18:00,920 --> 00:18:07,590  
1975 was carried out as we did for the

348  
00:18:03,539 --> 00:18:12,809  
earthquakes strikingly correct on ten

349  
00:18:07,589 --> 00:18:15,929  
major insights research is still stuck

350  
00:18:12,809 --> 00:18:19,139  
now despite massive data collection and

351  
00:18:15,930 --> 00:18:22,110  
written analysis much still remains to

352  
00:18:19,140 --> 00:18:25,100  
be verified conclusion intuitive

353  
00:18:22,109 --> 00:18:27,689  
consensus has significant potential for

354  
00:18:25,099 --> 00:18:30,089  
obtaining needed knowledge on mood

355  
00:18:27,690 --> 00:18:34,740  
disorders psychiatric problems and

356  
00:18:30,089 --> 00:18:39,809  
medicine generally another study was

357  
00:18:34,740 --> 00:18:43,859  
done on AIDS in 1993 and it was verified

358  
00:18:39,809 --> 00:18:46,679  
in about 2010 same sort of thing

359  
00:18:43,859 --> 00:18:50,399  
happened one of the main conclusions is

360  
00:18:46,680 --> 00:18:54,779  
HIV is an essential contributory to AIDS

361  
00:18:50,400 --> 00:18:59,040  
but is not is not its root cause are you

362  
00:18:54,779 --> 00:19:00,930  
listening Henry the susceptibility lies

363  
00:18:59,039 --> 00:19:03,299  
in the infection

364  
00:19:00,930 --> 00:19:06,750  
- the infection lives in a severely

365  
00:19:03,299 --> 00:19:08,519  
depressed immune system well we're gonna

366  
00:19:06,750 --> 00:19:11,029  
have to skip the recovery of the lost

367  
00:19:08,519 --> 00:19:13,829  
language since we're out of time

368  
00:19:11,029 --> 00:19:15,660  
conclusions almost any needed

369  
00:19:13,829 --> 00:19:18,149  
information could be obtained through

370  
00:19:15,660 --> 00:19:22,620  
intuitive inquiry the evidence that this

371

00:19:18,150 --> 00:19:25,650  
is possible is now strong and actually

372  
00:19:22,619 --> 00:19:27,989  
sufficient there are four conditions for

373  
00:19:25,650 --> 00:19:31,140  
its accuracy coverage and success namely

374  
00:19:27,990 --> 00:19:34,349  
work with only expert intuitive either

375  
00:19:31,140 --> 00:19:37,679  
yourself or hire an expert into it

376  
00:19:34,349 --> 00:19:40,230  
either that's either yourself or hire an

377  
00:19:37,679 --> 00:19:42,559  
expert into 'ti the inquiry questions

378  
00:19:40,230 --> 00:19:47,009  
have to be clear and non perceptive and

379  
00:19:42,558 --> 00:19:49,349  
objective no explanations needed strong

380  
00:19:47,009 --> 00:19:52,700  
and clear motivation for applying the

381  
00:19:49,349 --> 00:19:56,969  
new knowledge not just curiosity and no

382  
00:19:52,700 --> 00:19:58,950  
harmful harmful consequences if there

383  
00:19:56,970 --> 00:20:01,769  
are any these will block the information

384  
00:19:58,950 --> 00:20:04,500  
so this has profound the implications

385  
00:20:01,769 --> 00:20:07,109

for the future of science for generation

386

00:20:04,500 --> 00:20:10,380

of knowledge generally and of course for

387

00:20:07,109 --> 00:20:12,149

the role of SSE in this process I'll

388

00:20:10,380 --> 00:20:15,809

have to skip over the individual

389

00:20:12,150 --> 00:20:18,600

challenge and just skip to this point

390

00:20:15,808 --> 00:20:19,678

that's a lot for us as individuals to do

391

00:20:18,599 --> 00:20:22,859

ok

392

00:20:19,679 --> 00:20:28,679

thanks very much thank you

393

00:20:22,859 --> 00:20:35,308

time for questions now any questions of

394

00:20:28,679 --> 00:20:36,509

this hi Ron westrom I I was editor of a

395

00:20:35,308 --> 00:20:38,359

little newsletter for quite a while

396

00:20:36,509 --> 00:20:40,619

called the social psychology of science

397

00:20:38,359 --> 00:20:42,479

and I got very interested in intuition

398

00:20:40,619 --> 00:20:45,779

and its role in both science and

399

00:20:42,480 --> 00:20:47,670

engineering one of the first things that

400  
00:20:45,779 --> 00:20:50,279  
one notices about this is it's a very

401  
00:20:47,670 --> 00:20:52,650  
unequally distributed skill intuition

402  
00:20:50,279 --> 00:20:54,869  
we're very important equally distributed

403  
00:20:52,650 --> 00:20:57,540  
some people have it in great degree and

404  
00:20:54,869 --> 00:20:58,979  
some people not very much typically

405  
00:20:57,539 --> 00:21:00,839  
people who think of themselves as

406  
00:20:58,980 --> 00:21:04,529  
theorists have an extraordinary degree

407  
00:21:00,839 --> 00:21:06,689  
of intuition and the the level of some

408  
00:21:04,529 --> 00:21:08,730  
people Tesla would be a fine example of

409  
00:21:06,690 --> 00:21:10,380  
this it's just absolutely amazing in

410  
00:21:08,730 --> 00:21:11,640  
terms of their ability to model in their

411  
00:21:10,380 --> 00:21:15,570  
mind

412  
00:21:11,640 --> 00:21:17,910  
systems and so forth it's also something

413  
00:21:15,569 --> 00:21:20,879  
that's I think strongly tested by the

414  
00:21:17,910 --> 00:21:24,269  
myers-briggs scale intuitive versus

415  
00:21:20,880 --> 00:21:25,080  
sensor and I think that's a it's a very

416  
00:21:24,269 --> 00:21:26,670  
interesting thing

417  
00:21:25,079 --> 00:21:29,039  
Sall Restivo has a book called the

418  
00:21:26,670 --> 00:21:31,350  
subjective side of science and compares

419  
00:21:29,039 --> 00:21:33,720  
the Apollo moon scientists in terms of

420  
00:21:31,349 --> 00:21:35,519  
their love of either data or theory and

421  
00:21:33,720 --> 00:21:37,890  
shows that each one thinks for the

422  
00:21:35,519 --> 00:21:40,319  
others as unscientific could I answer

423  
00:21:37,890 --> 00:21:42,929  
that part first before you load my brain

424  
00:21:40,319 --> 00:21:44,789  
with other part of the question I would

425  
00:21:42,929 --> 00:21:47,460  
say that they are speaking here not

426  
00:21:44,789 --> 00:21:50,579  
about their intuitive ability but there

427  
00:21:47,460 --> 00:21:52,380  
but there the way they have actually

428

00:21:50,579 --> 00:21:55,798  
developed it into something useful

429  
00:21:52,380 --> 00:21:58,470  
the a lot of other works says that we

430  
00:21:55,798 --> 00:22:00,509  
are all equally intuitive it's just a

431  
00:21:58,470 --> 00:22:03,600  
matter of how much we let out allow

432  
00:22:00,509 --> 00:22:06,480  
ourselves to be that way you see okay

433  
00:22:03,599 --> 00:22:13,079  
but go further people waiting so I'm

434  
00:22:06,480 --> 00:22:14,940  
gonna just one spot Patterson I was just

435  
00:22:13,079 --> 00:22:18,089  
curious and maybe I missed that how do

436  
00:22:14,940 --> 00:22:21,960  
you identify who's an expert intuitive

437  
00:22:18,089 --> 00:22:22,439  
or how did you and good let's go about

438  
00:22:21,960 --> 00:22:25,890  
that

439  
00:22:22,440 --> 00:22:28,798  
good question when we did this work in

440  
00:22:25,890 --> 00:22:32,070  
the 90s 80s the there were intuitive's

441  
00:22:28,798 --> 00:22:35,879  
coming off the wall so we had no there

442  
00:22:32,069 --> 00:22:39,439

was no lack of applicants but we

443

00:22:35,880 --> 00:22:42,570

screened them pretty carefully partly on

444

00:22:39,440 --> 00:22:45,808

to come it get information which they

445

00:22:42,569 --> 00:22:48,689

had no way of know access to partly of

446

00:22:45,808 --> 00:22:51,149

which they might have access to but we

447

00:22:48,690 --> 00:22:53,519

could corroborate with it partially with

448

00:22:51,150 --> 00:22:56,850

old things like the history of sin

449

00:22:53,519 --> 00:22:59,490

ancient individual and partly by their

450

00:22:56,849 --> 00:23:01,439

work on actual applications that we were

451

00:22:59,490 --> 00:23:03,870

working on or we could compare their

452

00:23:01,440 --> 00:23:06,539

results with others who had preceded

453

00:23:03,869 --> 00:23:08,939

them this was our way of doing it but

454

00:23:06,539 --> 00:23:11,490

actually this was just a game because we

455

00:23:08,940 --> 00:23:15,110

had a pretty strong intuitive sense who

456

00:23:11,490 --> 00:23:15,109

was doing it at who wasn't

457  
00:23:20,359 --> 00:23:30,240  
um I have to confess to a certain opera

458  
00:23:26,369 --> 00:23:34,049  
or a suspicion of intuition and to note

459  
00:23:30,240 --> 00:23:37,220  
that a full discussion of your talk

460  
00:23:34,049 --> 00:23:40,678  
would be longer than your talk was but I

461  
00:23:37,220 --> 00:23:43,860  
I will restrain myself to noting that

462  
00:23:40,679 --> 00:23:46,410  
I'm not terribly impressed by the list

463  
00:23:43,859 --> 00:23:48,029  
of scientific confirmations because at

464  
00:23:46,410 --> 00:23:50,550  
least some of the things you're scoring

465  
00:23:48,029 --> 00:23:52,950  
as hits our Barnum statements that would

466  
00:23:50,549 --> 00:23:59,730  
be true of almost any research program

467  
00:23:52,950 --> 00:24:04,500  
still in progress okay I'll have to say

468  
00:23:59,730 --> 00:24:07,079  
I guess the main answer to that is the

469  
00:24:04,500 --> 00:24:09,000  
information the evidence is sound but

470  
00:24:07,079 --> 00:24:10,589  
what I could talk about today is

471  
00:24:09,000 --> 00:24:16,190  
certainly not a long list of the

472  
00:24:10,589 --> 00:24:20,569  
arguments for or against certainly many

473  
00:24:16,190 --> 00:24:20,570  
well-qualified scientists are

474  
00:24:21,829 --> 00:24:29,099  
authenticating the results that we have

475  
00:24:24,630 --> 00:24:31,530  
and that would be an indication that

476  
00:24:29,099 --> 00:24:34,859  
people who have looked at this carefully

477  
00:24:31,529 --> 00:24:37,920  
are saying yes yes it's right what I can

478  
00:24:34,859 --> 00:24:39,829  
say now is very limited thank you very

479  
00:24:37,920 --> 00:24:43,670  
much

480  
00:24:39,829 --> 00:24:43,669  
[Applause]

481  
00:24:43,720 --> 00:24:49,420  
[Music]