



1
00:00:41,760 --> 00:00:35,180
many years ago I had a first round foul

2
00:00:51,020 --> 00:00:41,770
in my senior administration oh no what

3
00:00:57,570 --> 00:00:51,030
now the single voice said give that idea

4
00:01:08,190 --> 00:00:57,580
hope we do not want to have to explain

5
00:01:14,999 --> 00:01:08,200
to her wealthy alumni in the Midwest why

6
00:01:19,710 --> 00:01:15,009
a Dean of engineering wants to mess with

7
00:01:33,840 --> 00:01:19,720
this stuff and it basically has not

8
00:01:43,160 --> 00:01:33,850
changed but I moved on and determined to

9
00:01:48,960 --> 00:01:43,170
pursue it nonetheless and I had two

10
00:01:50,399 --> 00:01:48,970
cabinets maybe three depending on the

11
00:01:58,160 --> 00:01:50,409
environment account

12
00:02:12,990 --> 00:02:06,480
academic studies I wanted to have

13
00:02:15,980 --> 00:02:13,000

someone on full-time appointment in the

14

00:02:21,050 --> 00:02:15,990

engineering school

15

00:02:29,160 --> 00:02:21,060

who could oversee the day-to-day

16

00:02:37,770 --> 00:02:29,170

operations much has all our earth don't

17

00:02:44,310 --> 00:02:37,780

not exercises for versatility at

18

00:02:51,000 --> 00:02:44,320

Princeton and finally and turned out

19

00:02:54,020 --> 00:02:51,010

most importantly I wanted this person to

20

00:03:01,100 --> 00:02:54,030

be female

21

00:03:08,280 --> 00:03:01,110

and to bring with her purse Park theater

22

00:03:13,800 --> 00:03:08,290

that only a great female scholar can

23

00:03:21,890 --> 00:03:13,810

bring that required a bit more of a

24

00:03:28,710 --> 00:03:21,900

search but I prevailed and here's it's

25

00:03:32,850 --> 00:03:28,720

an outstanding female scholar of this

26

00:03:38,759 --> 00:03:32,860

time which you are going to be

27

00:03:43,890 --> 00:03:38,769

privileged I believe to hear about other

28

00:03:48,890 --> 00:03:43,900

dimensions other dimensions of the deads

29

00:03:57,860 --> 00:03:48,900

work and which are they will testify

30

00:04:05,070 --> 00:03:57,870

here bring and the essential second

31

00:04:09,530 --> 00:04:05,080

compliment to the work I am gonna give

32

00:04:14,280 --> 00:04:09,540

bread and I heart Farrell I'm

33

00:04:17,770 --> 00:04:14,290

she's got all sorts of gadgets Aaron

34

00:04:23,430 --> 00:04:17,780

employs too

35

00:04:31,770 --> 00:04:23,440

acquaint you with the assistant to it

36

00:04:38,010 --> 00:04:31,780

and they and the fun that we have had

37

00:04:45,310 --> 00:04:38,020

pursuing engineering none of my research

38

00:04:49,810 --> 00:04:45,320

together I hope you will enjoy I hope

39

00:04:58,170 --> 00:04:49,820

you a question and I hope you will

40

00:05:01,170 --> 00:04:58,180

appreciate as I have certainly

41

00:05:16,450 --> 00:05:01,180

appreciated

42

00:05:28,600 --> 00:05:26,080

I think I'm speaking through several

43

00:05:32,430 --> 00:05:28,610

mics but that's okay I hope you can hear

44

00:05:37,180 --> 00:05:32,440

me thank you so much for the opportunity

45

00:05:39,430 --> 00:05:37,190

to address you this morning you know

46

00:05:44,650 --> 00:05:39,440

it's it's hard to imagine that this is

47

00:05:49,439 --> 00:05:44,660

the 36th annual meeting that means the

48

00:05:53,409 --> 00:05:49,449

society is about 37 or 38 years old

49

00:05:56,620 --> 00:05:53,419

which is about actually a little more

50

00:05:58,839 --> 00:05:56,630

than half my lifetime and that's scary

51
00:06:04,659 --> 00:05:58,849
you could do the math and figure out how

52
00:06:06,670 --> 00:06:04,669
old I am but I can remember attending

53
00:06:09,279 --> 00:06:06,680
the very first meeting that we had I

54
00:06:13,120 --> 00:06:09,289
believe it was in Charlottesville

55
00:06:15,279 --> 00:06:13,130
Virginia and it was a very modest

56
00:06:17,350 --> 00:06:15,289
meeting there were maybe a couple of

57
00:06:19,839 --> 00:06:17,360
dozen people there and afterwards people

58
00:06:21,430 --> 00:06:19,849
said well that's that I don't know if

59
00:06:25,330 --> 00:06:21,440
we'll ever be able to come up with any

60
00:06:29,409 --> 00:06:25,340
other topics to talk about but here we

61
00:06:32,020 --> 00:06:29,419
are 36 years later and we have a a

62
00:06:34,689 --> 00:06:32,030
wonderful program that bill and his

63
00:06:37,120 --> 00:06:34,699

colleagues have put together and we

64

00:06:40,540 --> 00:06:37,130

still haven't run out of exciting topics

65

00:06:44,529 --> 00:06:40,550

and we haven't run out of the wonderful

66

00:06:46,589 --> 00:06:44,539

speakers I look out on the audience I

67

00:06:50,589 --> 00:06:46,599

see an awful lot of faces that I

68

00:06:52,959 --> 00:06:50,599

recognized from way back when most of

69

00:06:56,469 --> 00:06:52,969

you as well as I have gotten a little

70

00:07:02,050 --> 00:06:56,479

grayer as the years have gone by but

71

00:07:05,589 --> 00:07:02,060

we're still at it and anyway it's it's

72

00:07:10,020 --> 00:07:05,599

just really a terrific pleasure to be

73

00:07:16,060 --> 00:07:10,030

able to celebrate this the spirit of SSD

74

00:07:22,350 --> 00:07:16,070

now I to be honest a we humming is there

75

00:07:32,590 --> 00:07:28,350

can you hear me now all right no I had

76
00:07:37,990 --> 00:07:32,600
was a disclaimer technically speaking I

77
00:07:43,560 --> 00:07:38,000
was not an SSE founder okay over the

78
00:07:50,590 --> 00:07:46,180
which has been an interesting role in

79
00:07:54,460 --> 00:07:50,600
itself as I've watched my young Scouts

80
00:07:59,020 --> 00:07:54,470
grow and mature and gain confidence in

81
00:08:02,469 --> 00:07:59,030
themselves and watch their worldview

82
00:08:05,050 --> 00:08:02,479
evolving and it gave me the opportunity

83
00:08:08,529 --> 00:08:05,060
to be able to nag them and criticize

84
00:08:12,760 --> 00:08:08,539
them as only a mother can and I enjoyed

85
00:08:16,659 --> 00:08:12,770
that role immensely I still do but it

86
00:08:21,810 --> 00:08:16,669
was as most of you know a long time ago

87
00:08:26,140 --> 00:08:21,820
when a group of outcasts scholars people

88
00:08:29,610 --> 00:08:26,150

who had scholarly interests in topics

89

00:08:36,279 --> 00:08:29,620

that lay outside mainstream science

90

00:08:40,930 --> 00:08:36,289

topics like reincarnation UFOs the Loch

91

00:08:43,690 --> 00:08:40,940

Ness monster psychic phenomena survival

92

00:08:47,040 --> 00:08:43,700

I mean weird stuff like that that were

93

00:08:50,380 --> 00:08:47,050

topics that were not accepted within the

94

00:08:55,720 --> 00:08:50,390

purview of mainstream journals or

95

00:08:58,150 --> 00:08:55,730

mainstream conferences and they got

96

00:09:00,449 --> 00:08:58,160

together handful of them maybe I don't

97

00:09:02,579 --> 00:09:00,459

know well there may be six or seven

98

00:09:07,680 --> 00:09:02,589

originally and they said well you know

99

00:09:09,940 --> 00:09:07,690

if we cannot get together at these

100

00:09:13,600 --> 00:09:09,950

scientific meetings why don't we just

101
00:09:16,690 --> 00:09:13,610
have our own and they decided to form a

102
00:09:19,810 --> 00:09:16,700
scholarly society a professional society

103
00:09:24,540 --> 00:09:19,820
that would address topics that lay

104
00:09:27,690 --> 00:09:24,550
outside mainstream competence or

105
00:09:30,900 --> 00:09:27,700
three interest the idea was eventually

106
00:09:33,000 --> 00:09:30,910
to create a journal which of course we

107
00:09:35,880 --> 00:09:33,010
did and most of you have seen it and

108
00:09:38,880 --> 00:09:35,890
that too is well along it's a fine

109
00:09:43,110 --> 00:09:38,890
quarterly journal it's refereed it's got

110
00:09:45,620 --> 00:09:43,120
some wonderful book reviews we would

111
00:09:48,960 --> 00:09:45,630
have annual meetings which we have done

112
00:09:52,139 --> 00:09:48,970
not only in the United States but we've

113
00:09:54,240 --> 00:09:52,149

had biennial meetings in Europe which

114

00:09:58,910 --> 00:09:54,250

have also been a success that meant the

115

00:10:07,110 --> 00:10:01,590

unfortunately it has tended to also age

116

00:10:09,840 --> 00:10:07,120

and one of our goals for the coming

117

00:10:12,930 --> 00:10:09,850

years is to try to to look to these

118

00:10:16,190 --> 00:10:12,940

succession of sse and to bring more

119

00:10:19,650 --> 00:10:16,200

young people feel more creative

120

00:10:23,490 --> 00:10:19,660

enthusiastic and technologically

121

00:10:25,100 --> 00:10:23,500

sophisticated folks in to lead the

122

00:10:29,970 --> 00:10:25,110

society in the future

123

00:10:32,550 --> 00:10:29,980

but those of you who know me know I'm

124

00:10:36,199 --> 00:10:32,560

fond of telling stories so let me tell a

125

00:10:41,610 --> 00:10:36,209

story a personal story that for me is

126

00:10:45,210 --> 00:10:41,620

kind of a parable for my view of the

127

00:10:48,990 --> 00:10:45,220

Society for scientific exploration when

128

00:10:51,030 --> 00:10:49,000

I was a kid maybe early adolescence you

129

00:10:53,190 --> 00:10:51,040

know that dreadful age when you're

130

00:10:55,560 --> 00:10:53,200

feeling insecure and you just want to be

131

00:10:57,389 --> 00:10:55,570

popular and you don't feel like you fit

132

00:11:00,600 --> 00:10:57,399

in and you're not sure who you are and

133

00:11:04,079 --> 00:11:00,610

all this other stuff I was one of those

134

00:11:06,660 --> 00:11:04,089

I guess I still have

135

00:11:13,530 --> 00:11:06,670

he just got used to it I've even come to

136

00:11:15,329 --> 00:11:13,540

like it but I had a cousin and this

137

00:11:17,160 --> 00:11:15,339

cousin was one of the in-crowd

138

00:11:21,030 --> 00:11:17,170

he was a couple of years older than I

139

00:11:25,619 --> 00:11:21,040

was and boy I admired her she was so

140

00:11:27,900 --> 00:11:25,629

cool she was a cheerleader she hung out

141

00:11:29,220 --> 00:11:27,910

she has the best nice clothes and all

142

00:11:31,679 --> 00:11:29,230

this other stuff

143

00:11:34,850 --> 00:11:31,689

boy that was what I wanted to be when I

144

00:11:38,069 --> 00:11:34,860

grew up and she had a lot of friends

145

00:11:42,600 --> 00:11:38,079

popular who went to parties and I was

146

00:11:46,199 --> 00:11:42,610

sort of on the outskirts looking in in

147

00:11:48,449 --> 00:11:46,209

fact I hung out with a bunch of other

148

00:11:50,879 --> 00:11:48,459

misfits who as I look back now I

149

00:11:53,999 --> 00:11:50,889

realized were real honest-to-god

150

00:11:55,319 --> 00:11:54,009

beatniks that gives you again how old I

151
00:11:57,900 --> 00:11:55,329
am

152
00:12:01,290 --> 00:11:57,910
but then people who I enjoy being with

153
00:12:08,309 --> 00:12:01,300
because I could be myself I didn't have

154
00:12:13,519 --> 00:12:08,319
to be putting on pretenses trying to fit

155
00:12:17,480 --> 00:12:13,529
in but as the years went by and as I

156
00:12:23,999 --> 00:12:17,490
matured as I gained a little more

157
00:12:27,059 --> 00:12:24,009
confidence in myself as I can't become

158
00:12:31,739 --> 00:12:27,069
comfortable being not being one of the

159
00:12:37,259 --> 00:12:31,749
in-crowd I started to look at my cousin

160
00:12:40,259 --> 00:12:37,269
differently and one of my relatives had

161
00:12:42,689 --> 00:12:40,269
once said to me you know your cousin

162
00:12:47,009 --> 00:12:42,699
so-and-so really isn't that bright and

163
00:12:49,679 --> 00:12:47,019

boy I defended her she was she was my

164

00:12:51,660 --> 00:12:49,689

model well I came to realize you know

165

00:12:52,910 --> 00:12:51,670

she really wasn't that bright

166

00:12:57,440 --> 00:12:52,920

[Music]

167

00:13:02,720 --> 00:12:57,450

she spent all of her effort to creating

168

00:13:07,610 --> 00:13:02,730

a facade of sophistication of knowledge

169

00:13:13,670 --> 00:13:07,620

ability you know of I'm trying to think

170

00:13:16,519 --> 00:13:13,680

of the right term but I came to realize

171

00:13:19,850 --> 00:13:16,529

this was a cover and it was really

172

00:13:21,760 --> 00:13:19,860

covering her own insecurities her need

173

00:13:26,810 --> 00:13:21,770

to sort of put me down

174

00:13:30,829 --> 00:13:26,820

subtly really was a way of making

175

00:13:33,950 --> 00:13:30,839

herself feel a little bit superior and

176

00:13:37,340 --> 00:13:33,960

as I looked around to this in crowd the

177

00:13:40,760 --> 00:13:37,350

popular kids oh I wanted so much to join

178

00:13:44,600 --> 00:13:40,770

I realized you know I don't really want

179

00:13:50,980 --> 00:13:44,610

to be one of them you're fake okay

180

00:13:56,030 --> 00:13:50,990

following the metaphor SSE is sort of a

181

00:14:02,450 --> 00:13:56,040

misfit kid if you want a beatnik

182

00:14:08,480 --> 00:14:02,460

organization god I'm dating this was pre

183

00:14:12,200 --> 00:14:08,490

hippie mind Jew but it was it when it

184

00:14:15,410 --> 00:14:12,210

started out it too was looking up to the

185

00:14:18,530 --> 00:14:15,420

big kids the popular kids many of the

186

00:14:21,970 --> 00:14:18,540

early council meetings involved how do

187

00:14:26,570 --> 00:14:21,980

we get mainstream science to accept us

188

00:14:30,470 --> 00:14:26,580

how do we get to be published in nature

189

00:14:35,540 --> 00:14:30,480

and in science how can we become one of

190

00:14:37,460 --> 00:14:35,550

them of course we learned painfully as

191

00:14:39,980 --> 00:14:37,470

the plan went by that there was no way

192

00:14:44,390 --> 00:14:39,990

we were going to be one of them because

193

00:14:48,470 --> 00:14:44,400

we represented a threat to them we were

194

00:14:52,910 --> 00:14:48,480

a threat to their their cab salutis okay

195

00:14:55,760 --> 00:14:52,920

they're the the the paradigm that

196

00:14:58,610 --> 00:14:55,770

they're represented that could not be

197

00:15:03,210 --> 00:14:58,620

challenged because we were raising

198

00:15:05,189 --> 00:15:03,220

questions like well

199

00:15:08,449 --> 00:15:05,199

say this way we were raising statements

200

00:15:12,199 --> 00:15:08,459

would me backtrack when when I was

201
00:15:15,059 --> 00:15:12,209
laboratory manager pair we used to have

202
00:15:17,150 --> 00:15:15,069
every year for a goal about ten years we

203
00:15:19,679 --> 00:15:17,160
would get maybe a hundred or so

204
00:15:22,230 --> 00:15:19,689
ten-year-old kids from a neighboring

205
00:15:24,960 --> 00:15:22,240
school district that would come on us

206
00:15:26,730 --> 00:15:24,970
field trip and we would show them around

207
00:15:30,540 --> 00:15:26,740
the lab we talked a little bit about

208
00:15:33,090 --> 00:15:30,550
scientific method about probability and

209
00:15:34,980 --> 00:15:33,100
we were very cautious we were not

210
00:15:37,759 --> 00:15:34,990
pushing anomalies we were talking

211
00:15:41,939 --> 00:15:37,769
science and at each of these

212
00:15:43,889 --> 00:15:41,949
convocations I would ask the kids how

213
00:15:44,699 --> 00:15:43,899

many of you want to be scientists when

214

00:15:47,369 --> 00:15:44,709

you grow up

215

00:15:50,970 --> 00:15:47,379

and there usually be a flurry of hands

216

00:15:53,220 --> 00:15:50,980

and I'd say you know if you want to be a

217

00:15:56,970 --> 00:15:53,230

scientist you have to learn how to say

218

00:16:02,040 --> 00:15:56,980

to very difficult things the first of

219

00:16:07,670 --> 00:16:02,050

them is I don't know the second which is

220

00:16:11,510 --> 00:16:07,680

a lot harder is I was wrong

221

00:16:14,060 --> 00:16:11,520

and I remember one lovely little gal who

222

00:16:19,040 --> 00:16:14,070

looked at me and said Oh mrs. Dunn I

223

00:16:23,420 --> 00:16:19,050

can't even say that to my brother and I

224

00:16:29,060 --> 00:16:23,430

said well I didn't say it was easy but I

225

00:16:31,850 --> 00:16:29,070

do maintain that that principle to this

226

00:16:33,980 --> 00:16:31,860

day if you want to be a good scientist

227

00:16:38,150 --> 00:16:33,990

you have to be willing to say I don't

228

00:16:41,450 --> 00:16:38,160

know and all of us here are dealing with

229

00:16:45,470 --> 00:16:41,460

things that we don't know they are all

230

00:16:48,920 --> 00:16:45,480

topics of high uncertainty and you know

231

00:16:51,140 --> 00:16:48,930

very little absolute knowledge in fact

232

00:16:54,140 --> 00:16:51,150

maybe the secret to studying anomalies

233

00:16:55,550 --> 00:16:54,150

is that there is no absolute maybe we'll

234

00:16:58,010 --> 00:16:55,560

come to that eventually

235

00:16:59,800 --> 00:16:58,020

I think we've discovered in our pair

236

00:17:02,630 --> 00:16:59,810

research that one of the basic

237

00:17:08,449 --> 00:17:02,640

underlying principles of all of the

238

00:17:10,910 --> 00:17:08,459

anomalies we studied was uncertainty you

239

00:17:12,740 --> 00:17:10,920

you have to be able to say I don't know

240

00:17:15,919 --> 00:17:12,750

and you have to be able to concede that

241

00:17:18,260 --> 00:17:15,929

you're wrong without feeling threatened

242

00:17:21,110 --> 00:17:18,270

without feeling is some of our

243

00:17:24,020 --> 00:17:21,120

colleagues and the mainstream scientists

244

00:17:25,819 --> 00:17:24,030

sciences have said to us well if what

245

00:17:28,100 --> 00:17:25,829

you're saying is right with with

246

00:17:31,160 --> 00:17:28,110

everything I've done in my life is wrong

247

00:17:33,740 --> 00:17:31,170

and I would say well no it's not wrong

248

00:17:34,940 --> 00:17:33,750

it's just not completely they say no you

249

00:17:39,590 --> 00:17:34,950

don't understand

250

00:17:41,750 --> 00:17:39,600

it'd be wrong that this scares them it

251
00:17:47,540 --> 00:17:41,760
really does I mean I've seen their faces

252
00:17:49,549 --> 00:17:47,550
I felt their fear many of you have

253
00:17:55,810 --> 00:17:49,559
probably heard this story but I think

254
00:18:03,140 --> 00:17:59,930
symbolic indicators of this was when we

255
00:18:05,410 --> 00:18:03,150
first started our pear lab we didn't

256
00:18:08,960 --> 00:18:05,420
have a name for it we were in a

257
00:18:11,000 --> 00:18:08,970
reconstituted storage area in the base

258
00:18:13,430 --> 00:18:11,010
the engineering school didn't have a

259
00:18:15,260 --> 00:18:13,440
room number or anything on it and we had

260
00:18:19,340 --> 00:18:15,270
to put something there to indicate that

261
00:18:22,640 --> 00:18:19,350
you know this is we're here okay it was

262
00:18:26,810 --> 00:18:22,650
just the lab so I thought I was being

263
00:18:30,380 --> 00:18:26,820

terribly clever and I put a Greek sigh

264

00:18:32,510 --> 00:18:30,390

on the earth I thought sighs great it

265

00:18:35,450 --> 00:18:32,520

stands for psychic phenomena it stands

266

00:18:37,610 --> 00:18:35,460

for paranormal or whatever and it stands

267

00:18:39,650 --> 00:18:37,620

for wave function you know in physics

268

00:18:42,920 --> 00:18:39,660

and here we are in an engineering school

269

00:18:45,950 --> 00:18:42,930

ovations well the sign was up on the

270

00:18:48,950 --> 00:18:45,960

door for a while and by the third times

271

00:18:51,290 --> 00:18:48,960

he came over and stared at it with

272

00:18:53,900 --> 00:18:51,300

terrible terror in their face and said

273

00:18:59,270 --> 00:18:53,910

why do you have a devil's pitchfork on

274

00:19:04,910 --> 00:18:59,280

your door I thought you know this is

275

00:19:07,070 --> 00:19:04,920

gonna be an interesting trip one day I

276

00:19:10,190 --> 00:19:07,080

opened the door to go out somebody was

277

00:19:12,530 --> 00:19:10,200

standing there staring yeah look I

278

00:19:14,690 --> 00:19:12,540

smiled I said no it's not a Devil's

279

00:19:16,250 --> 00:19:14,700

pitchfork it's a Greek letter and they

280

00:19:23,590 --> 00:19:16,260

backed away and said how did you know

281

00:19:30,010 --> 00:19:26,230

at that point we figured maybe we should

282

00:19:32,019 --> 00:19:30,020

take the devil's pitch more corridor so

283

00:19:34,690 --> 00:19:32,029

we took that down we put up one of these

284

00:19:36,909 --> 00:19:34,700

signs for the spiral galaxy and an arrow

285

00:19:41,860 --> 00:19:36,919

that says you are here and I thought

286

00:19:43,510 --> 00:19:41,870

okay week or so later I come in one

287

00:19:45,370 --> 00:19:43,520

morning there's one of these grad

288

00:19:48,100 --> 00:19:45,380

students standing there staring at the

289

00:19:53,910 --> 00:19:48,110

door and I walked up and he said you

290

00:19:58,710 --> 00:19:56,520

Wow I said thanks for telling me that I

291

00:20:04,980 --> 00:19:58,720

need to have a misleading sign on the

292

00:20:09,810 --> 00:20:04,990

door and I ripped it off walked into the

293

00:20:10,950 --> 00:20:09,820

lab and said where am i what kind of a

294

00:20:13,680 --> 00:20:10,960

place is this

295

00:20:16,890 --> 00:20:13,690

these people have no sense of humor they

296

00:20:21,330 --> 00:20:16,900

have no I mean this is this is worse

297

00:20:23,550 --> 00:20:21,340

than never-never-land anyway somewhere

298

00:20:25,200 --> 00:20:23,560

along the lines Bob and I have decided

299

00:20:29,910 --> 00:20:25,210

that we really needed to have a name for

300

00:20:31,830 --> 00:20:29,920

the lab we went out to lunch one day we

301
00:20:34,140 --> 00:20:31,840
were sitting in this restaurant that had

302
00:20:39,420 --> 00:20:34,150
these little you know old tables and

303
00:20:40,980 --> 00:20:39,430
fancy whatever's and Bob said to me we

304
00:20:44,250 --> 00:20:40,990
need a name for the lab I've been

305
00:20:46,220 --> 00:20:44,260
thinking about this and what do you

306
00:20:50,160 --> 00:20:46,230
think of the idea of Princeton

307
00:20:51,750 --> 00:20:50,170
Engineering anomaly's research and I

308
00:20:55,530 --> 00:20:51,760
listened I said pe

309
00:21:00,300 --> 00:20:55,540
a pair it's an AK we can do better than

310
00:21:02,870 --> 00:21:00,310
that it doesn't grab me so anyway

311
00:21:05,520 --> 00:21:02,880
meanwhile the waitress brings our lunch

312
00:21:07,890 --> 00:21:05,530
Bob says pass the salt

313
00:21:09,810 --> 00:21:07,900

I passed him to reach out to pass him

314

00:21:17,740 --> 00:21:09,820

the salt shaker and it's a little pewter

315

00:21:23,019 --> 00:21:20,139

we're talking about it trying to come up

316

00:21:24,940 --> 00:21:23,029

with an alternative we finish our lunch

317

00:21:26,799 --> 00:21:24,950

the waitress comes back and she said can

318

00:21:33,159 --> 00:21:26,809

I interest you folks in some dessert we

319

00:21:35,409 --> 00:21:33,169

have some fresh-baked pancake I said

320

00:21:37,149 --> 00:21:35,419

okay you know I can't fight this because

321

00:21:41,769 --> 00:21:37,159

we're gonna go outside when a pair is

322

00:21:46,480 --> 00:21:41,779

gonna get there it is and so at that

323

00:21:50,430 --> 00:21:46,490

point we put a pair up off the door I'm

324

00:21:53,440 --> 00:21:50,440

glad we didn't put an apple because

325

00:21:55,899 --> 00:21:53,450

pears are nice fruit I mean it's very

326

00:21:59,169 --> 00:21:55,909

hard to find some negative connotation

327

00:22:01,779 --> 00:21:59,179

to a pear and we had that pear up there

328

00:22:04,029 --> 00:22:01,789

for many years towards the end of the

329

00:22:08,560 --> 00:22:04,039

program I actually replaced it

330

00:22:11,230 --> 00:22:08,570

just because my mischievous self

331

00:22:16,629 --> 00:22:11,240

couldn't resist with a picture of a

332

00:22:18,399 --> 00:22:16,639

gingerbread house we had the people got

333

00:22:20,950 --> 00:22:18,409

very nervous because we were not

334

00:22:24,460 --> 00:22:20,960

permitted to have students in our in our

335

00:22:26,799 --> 00:22:24,470

laboratory from the University we had

336

00:22:28,330 --> 00:22:26,809

people volunteering and coming by but we

337

00:22:32,769 --> 00:22:28,340

could not take their students we

338

00:22:35,379 --> 00:22:32,779

couldn't teach them and we used to

339

00:22:38,470 --> 00:22:35,389

pretend you know that this was really

340

00:22:41,639 --> 00:22:38,480

the you know the the candy cabin in the

341

00:22:44,879 --> 00:22:41,649

woods you know come in a little child

342

00:22:47,560 --> 00:22:44,889

let me tell you some really nasty things

343

00:22:50,289 --> 00:22:47,570

so anyway yeah I couldn't resist

344

00:22:54,129 --> 00:22:50,299

no nobody actually challenged the the

345

00:22:56,769 --> 00:22:54,139

gingerbread house but by that time I

346

00:22:59,230 --> 00:22:56,779

think they were used to us anyway I've

347

00:23:01,539 --> 00:22:59,240

gotten off my track and I have a

348

00:23:04,710 --> 00:23:01,549

tendency to do that and I apologize but

349

00:23:08,740 --> 00:23:04,720

let's get back to SSE and I wanted to

350

00:23:12,490 --> 00:23:08,750

bring back this parable as a metaphor

351

00:23:16,810 --> 00:23:12,500

this analogy of my relationship with my

352

00:23:20,440 --> 00:23:16,820

cousin and the high school in crowd SSE

353

00:23:23,680 --> 00:23:20,450

over the years has has not gained

354

00:23:25,990 --> 00:23:23,690

acceptance we we're not going to until

355

00:23:26,600 --> 00:23:26,000

the mainstream can say I was wrong or I

356

00:23:28,240 --> 00:23:26,610

don't know

357

00:23:32,390 --> 00:23:28,250

there's no way that's going to happen

358

00:23:35,480 --> 00:23:32,400

what's gonna happen is that we are going

359

00:23:37,730 --> 00:23:35,490

to be bringing new people in a you know

360

00:23:40,910 --> 00:23:37,740

Max Planck once put it beautifully he

361

00:23:43,220 --> 00:23:40,920

said new ideas you can't change idea

362

00:23:46,549 --> 00:23:43,230

people's ideas you have to wait until

363

00:23:48,200 --> 00:23:46,559

the new generation grows up and believes

364

00:23:50,840 --> 00:23:48,210

in it in the first place and I'm saying

365

00:23:53,630 --> 00:23:50,850

that all wrong but basically it's been

366

00:23:56,510 --> 00:23:53,640

paraphrased as science changes funeral

367

00:24:02,150 --> 00:23:56,520

by funeral and that is what is happening

368

00:24:04,850 --> 00:24:02,160

gradually there are changes we many

369

00:24:08,090 --> 00:24:04,860

years ago we had a volunteer operator

370

00:24:11,840 --> 00:24:08,100

who was a physics grad student not you

371

00:24:14,450 --> 00:24:11,850

you're different one although York was

372

00:24:16,850 --> 00:24:14,460

also I came to us as a physics grad

373

00:24:18,890 --> 00:24:16,860

student for the same reason as this

374

00:24:20,510 --> 00:24:18,900

other one who said you know this is

375

00:24:21,820 --> 00:24:20,520

interesting stuff I've got to see it to

376

00:24:24,919 --> 00:24:21,830

believe it

377

00:24:30,080 --> 00:24:24,929

well anyway this one heard Bob speak and

378

00:24:32,510 --> 00:24:30,090

he came by and he said you know I heard

379

00:24:34,940 --> 00:24:32,520

dr. John give a talk about this stuff

380

00:24:37,340 --> 00:24:34,950

and it was really interesting and I went

381

00:24:39,080 --> 00:24:37,350

to speak to my adviser who I regard is

382

00:24:42,890 --> 00:24:39,090

one of the most intelligent saying

383

00:24:45,770 --> 00:24:42,900

people I know and he sort of went

384

00:24:47,570 --> 00:24:45,780

ballistic his face turned red his voice

385

00:24:49,580 --> 00:24:47,580

went up but he said oh that's real hot

386

00:24:52,430 --> 00:24:49,590

sites we know that that's impossible and

387

00:24:55,430 --> 00:24:52,440

John is a fraud he said I was really

388

00:24:59,690 --> 00:24:55,440

taken aback by his reaction so I decided

389

00:25:01,880 --> 00:24:59,700

I really needed to see for myself so he

390

00:25:03,710 --> 00:25:01,890

came by he was an operator in our

391

00:25:06,500 --> 00:25:03,720

laboratory for a while

392

00:25:09,650 --> 00:25:06,510

did some experiments graduated went on

393

00:25:12,470 --> 00:25:09,660

and it was quite a few years later that

394

00:25:15,530 --> 00:25:12,480

Roger who of course was also a member of

395

00:25:17,630 --> 00:25:15,540

the Paragon app for many years said to

396

00:25:20,870 --> 00:25:17,640

me and did you see the article is such

397

00:25:23,270 --> 00:25:20,880

an assumption I said no he said well it

398

00:25:27,409 --> 00:25:23,280

seems that there is a new chairman of

399

00:25:33,440 --> 00:25:27,419

the physics department at Caltech it's

400

00:25:36,499 --> 00:25:33,450

the guy who was our our operator that's

401
00:25:40,159 --> 00:25:36,509
how we're going to change the system

402
00:25:43,549 --> 00:25:40,169
hey camera bye funeral step by step or

403
00:25:47,539 --> 00:25:43,559
as we used to have a motto in the pair

404
00:25:49,639 --> 00:25:47,549
lab tell the young people we won't go

405
00:25:55,339 --> 00:25:49,649
into where that came from

406
00:25:58,549 --> 00:25:55,349
but but that was that was the idea and

407
00:26:01,009 --> 00:25:58,559
that's what SSE is about to tell the

408
00:26:04,099 --> 00:26:01,019
young people there are so many young

409
00:26:06,799 --> 00:26:04,109
people so many even the mainstream

410
00:26:08,930 --> 00:26:06,809
scientists who won't admit it but who

411
00:26:13,879 --> 00:26:08,940
are interested in these topics who are

412
00:26:17,989 --> 00:26:13,889
afraid to admit their interests who are

413
00:26:22,699 --> 00:26:17,999

terrified by the that horrible bully man

414

00:26:24,669 --> 00:26:22,709

of what will people think well who cares

415

00:26:28,069 --> 00:26:24,679

what people think

416

00:26:30,889 --> 00:26:28,079

we are real we are authentic and we are

417

00:26:34,430 --> 00:26:30,899

willing to admit we are wrong we're

418

00:26:36,889 --> 00:26:34,440

willing to admit we don't know and we

419

00:26:40,159 --> 00:26:36,899

need to attract more people and

420

00:26:43,749 --> 00:26:40,169

encourage more young people to be able

421

00:26:46,459 --> 00:26:43,759

to join this wonderful misfit community

422

00:26:48,680 --> 00:26:46,469

we won't call the beatniks anymore I

423

00:26:52,489 --> 00:26:48,690

rather like that we all have long hair

424

00:26:58,639 --> 00:26:52,499

and you know dark eye shadow bongo drum

425

00:27:02,059 --> 00:26:58,649

okay was it was cool but but that that's

426
00:27:04,189 --> 00:27:02,069
that's where an assessee has to go we

427
00:27:07,579 --> 00:27:04,199
need we are no longer looking for

428
00:27:11,209 --> 00:27:07,589
approval by by the end crowd by the

429
00:27:13,099 --> 00:27:11,219
popular mood we are the Vanguard we're

430
00:27:16,099 --> 00:27:13,109
out there in front we're leading the

431
00:27:20,209 --> 00:27:16,109
troops where we aren't setting the

432
00:27:23,989 --> 00:27:20,219
future we need beyond the next

433
00:27:25,879 --> 00:27:23,999
generations to follow us and I love all

434
00:27:28,009 --> 00:27:25,889
of you it's you know that's great I look

435
00:27:33,049 --> 00:27:28,019
out but there's a lot of gray heads out

436
00:27:37,300 --> 00:27:33,059
there and up here we need we need more

437
00:27:45,400 --> 00:27:41,140
many years ago when I was I was

438
00:27:48,920 --> 00:27:45,410

appointed her elected education officer

439

00:27:53,780 --> 00:27:48,930

which I position I held for many years

440

00:27:57,800 --> 00:27:53,790

we tried to do to attract more young

441

00:28:01,880 --> 00:27:57,810

people oh he gave reduced membership

442

00:28:04,150 --> 00:28:01,890

fees reduced registration fees we even

443

00:28:08,410 --> 00:28:04,160

offered a prize for the young

444

00:28:10,760 --> 00:28:08,420

investigators presentation we had one

445

00:28:14,060 --> 00:28:10,770

winner of that prize I don't think

446

00:28:16,910 --> 00:28:14,070

anybody has since applied we would have

447

00:28:23,930 --> 00:28:16,920

these oh good we don't have another one

448

00:28:27,080 --> 00:28:23,940

great all right thank you but this is

449

00:28:29,240 --> 00:28:27,090

this is where we have to go I resigned a

450

00:28:32,030 --> 00:28:29,250

couple of years ago Chantal now is the

451
00:28:34,070 --> 00:28:32,040
education officer and she's carrying on

452
00:28:36,530 --> 00:28:34,080
that tradition and encouraging people

453
00:28:39,530 --> 00:28:36,540
this is why she's holding these lunches

454
00:28:42,860 --> 00:28:39,540
and these meetings trying to encourage

455
00:28:45,910 --> 00:28:42,870
young folks to have discussion groups at

456
00:28:50,480 --> 00:28:45,920
their colleges and talk to their friends

457
00:28:53,060 --> 00:28:50,490
SSE is willing to bring speakers on

458
00:28:56,330 --> 00:28:53,070
different topics to these groups and

459
00:29:01,850 --> 00:28:56,340
there are a number of groups now if

460
00:29:03,800 --> 00:29:01,860
Chantal has a group in California excuse

461
00:29:06,620 --> 00:29:03,810
me Garrett Modell's has a group in

462
00:29:08,270 --> 00:29:06,630
Boulder that get together and talk about

463
00:29:11,480 --> 00:29:08,280

and I think there's a couple of others

464

00:29:13,820 --> 00:29:11,490

here and there we need we need more of

465

00:29:16,690 --> 00:29:13,830

that this is where we're going to get

466

00:29:18,550 --> 00:29:16,700

our our new blood we're going to try to

467

00:29:22,970 --> 00:29:18,560

collaborate with other organizations

468

00:29:28,550 --> 00:29:22,980

that have younger enthusiastic people

469

00:29:32,030 --> 00:29:28,560

but who need the more mature experienced

470

00:29:34,850 --> 00:29:32,040

leadership that we can offer we have a

471

00:29:36,380 --> 00:29:34,860

lot to offer we have a great journal we

472

00:29:39,530 --> 00:29:36,390

have great meetings we have great

473

00:29:41,120 --> 00:29:39,540

membership and you know I don't know

474

00:29:45,049 --> 00:29:41,130

what I'm doing timewise will somebody

475

00:29:50,330 --> 00:29:45,059

stop me when I write five minutes

476

00:29:51,830 --> 00:29:50,340

okay that's about all I need except I

477

00:29:58,100 --> 00:29:51,840

just lost track of what it was I was

478

00:29:59,810 --> 00:29:58,110

going to say Oh a stroke net you know

479

00:30:06,860 --> 00:29:59,820

getting you know young people and

480

00:30:08,360 --> 00:30:06,870

whatever in the involvement in it oh I

481

00:30:13,100 --> 00:30:08,370

know where I was going and this is

482

00:30:15,889 --> 00:30:13,110

terribly important every year at our

483

00:30:17,749 --> 00:30:15,899

council meetings the issues issue has

484

00:30:19,820 --> 00:30:17,759

come up of how do we attract more people

485

00:30:24,799 --> 00:30:19,830

how do we get increase our membership

486

00:30:27,859 --> 00:30:24,809

etc etc and I have a funny position

487

00:30:31,279 --> 00:30:27,869

about that I have no aspiration to

488

00:30:33,379 --> 00:30:31,289

seeing SSI have thousands and thousands

489

00:30:35,629 --> 00:30:33,389

of members and loads and loads of money

490

00:30:38,779 --> 00:30:35,639

and have its meetings and parallel

491

00:30:42,409 --> 00:30:38,789

sessions and not know any of the people

492

00:30:45,440 --> 00:30:42,419

who are there because for me over these

493

00:30:47,840 --> 00:30:45,450

36 annual meetings and I have been to

494

00:30:49,460 --> 00:30:47,850

all but one of them and most of the

495

00:30:54,080 --> 00:30:49,470

European ones as well

496

00:30:56,629 --> 00:30:54,090

the real appeal is seeing my friends my

497

00:30:59,060 --> 00:30:56,639

real the real attraction and the

498

00:31:01,310 --> 00:30:59,070

enjoyment of these meetings has been

499

00:31:04,820 --> 00:31:01,320

meeting other people meeting other folks

500

00:31:08,539 --> 00:31:04,830

who are list it's like I am or like we

501
00:31:10,489 --> 00:31:08,549
are people who are looking to share some

502
00:31:13,190 --> 00:31:10,499
of their experiences that they can't

503
00:31:15,409 --> 00:31:13,200
talk about it with their faculty they

504
00:31:18,289 --> 00:31:15,419
can't talk about it American Physical

505
00:31:22,180 --> 00:31:18,299
Society meetings people who have seen

506
00:31:27,700 --> 00:31:22,190
and heard and done things that are just

507
00:31:32,060 --> 00:31:27,710
walk off the map and who are lonesome

508
00:31:33,980 --> 00:31:32,070
they're feeling very lonely so here we

509
00:31:38,029 --> 00:31:33,990
can get together we can talk about this

510
00:31:40,100 --> 00:31:38,039
we know each other you know it's it's a

511
00:31:42,139 --> 00:31:40,110
delight the older I get the harder it is

512
00:31:43,850 --> 00:31:42,149
to remember names but dammit it's great

513
00:31:44,800 --> 00:31:43,860

to come in and see faces that I

514

00:31:51,520 --> 00:31:44,810

recognize

515

00:31:54,610 --> 00:31:51,530

and and and that really is I think one

516

00:31:59,200 --> 00:31:54,620

of the most critical components of SSE

517

00:32:04,270 --> 00:31:59,210

the community the the the friendships

518

00:32:06,370 --> 00:32:04,280

the places of safety and refuge where we

519

00:32:08,860 --> 00:32:06,380

can go once a year to talk about stuff

520

00:32:10,720 --> 00:32:08,870

we can't talk about anywhere else with

521

00:32:12,640 --> 00:32:10,730

folks who understand and aren't going to

522

00:32:15,330 --> 00:32:12,650

look at us and go oh my god are you one

523

00:32:19,750 --> 00:32:15,340

of those you know you know who look

524

00:32:22,150 --> 00:32:19,760

you've all seen it and I want to

525

00:32:25,720 --> 00:32:22,160

encourage that I want to encourage all

526

00:32:27,610 --> 00:32:25,730

of you especially oh it's wonderful to

527

00:32:29,920 --> 00:32:27,620

see the only the new folks who are here

528

00:32:32,470 --> 00:32:29,930

for the first time I hope you will come

529

00:32:35,700 --> 00:32:32,480

back I hope you will become involved in

530

00:32:38,230 --> 00:32:35,710

the society volunteer we're a volunteer

531

00:32:42,970 --> 00:32:38,240

organization everything is done by

532

00:32:46,600 --> 00:32:42,980

volunteers and whatever skills you have

533

00:32:49,300 --> 00:32:46,610

come bring them organized discussion

534

00:32:52,060 --> 00:32:49,310

groups at home offered us well I guess

535

00:32:56,470 --> 00:32:52,070

we don't lick stamps anymore but then

536

00:32:58,210 --> 00:32:56,480

but the equivalent thereof we can always

537

00:33:00,190 --> 00:32:58,220

use people who maybe could spare a

538

00:33:03,250 --> 00:33:00,200

couple of hours a week or even a couple

539

00:33:05,440 --> 00:33:03,260

of hours a month to help out people who

540

00:33:08,080 --> 00:33:05,450

could write press releases people you

541

00:33:12,370 --> 00:33:08,090

know there's a lot that SSE could do

542

00:33:16,660 --> 00:33:12,380

there's so much more that we could be if

543

00:33:20,110 --> 00:33:16,670

we all work together you know we used to

544

00:33:23,110 --> 00:33:20,120

have a little sign on the wall pair that

545

00:33:27,400 --> 00:33:23,120

said if we all work together we can

546

00:33:30,410 --> 00:33:27,410

totally disrupt the system and I'll

547

00:33:45,480 --> 00:33:30,420

leave you with that note thank you

548

00:33:58,310 --> 00:33:49,140

that bob was real out here I just sort

549

00:34:01,560 --> 00:33:58,320

of came along to hold his briefcase it

550

00:34:03,810 --> 00:34:01,570

20:17 founders lectureship Brenda J done

551

00:34:06,000 --> 00:34:03,820

in recognition of her innumerable