



1
00:00:05,910 --> 00:00:04,230
hi everybody i'm josh byerly here in

2
00:00:07,430 --> 00:00:05,920
mission control houston i am joined by

3
00:00:09,030 --> 00:00:07,440
amelia wright she is part of the

4
00:00:10,629 --> 00:00:09,040
international space station program

5
00:00:11,830 --> 00:00:10,639
science team

6
00:00:13,030 --> 00:00:11,840
so she's going to be here probably

7
00:00:15,110 --> 00:00:13,040
answering most of your questions i'll be

8
00:00:16,790 --> 00:00:15,120
here for the basic ones but so we're

9
00:00:19,910 --> 00:00:16,800
ready to take your questions whenever

10
00:00:22,550 --> 00:00:19,920
you are ready over there

11
00:00:24,310 --> 00:00:22,560
all right so um hi um my name's amy

12
00:00:26,390 --> 00:00:24,320
cortero and um

13
00:00:27,670 --> 00:00:26,400

so amelia your bio mentions various

14

00:00:29,349 --> 00:00:27,680

outreach programs you've done i'm

15

00:00:31,429 --> 00:00:29,359

familiar with some of them

16

00:00:33,190 --> 00:00:31,439

i'm from austin texas

17

00:00:35,110 --> 00:00:33,200

my question is what got you interested

18

00:00:37,350 --> 00:00:35,120

in education outreach and what is your

19

00:00:39,670 --> 00:00:37,360

favorite part about it

20

00:00:42,709 --> 00:00:39,680

education outreach to me is a form of

21

00:00:44,709 --> 00:00:42,719

mentorship and it allows me to

22

00:00:47,270 --> 00:00:44,719

pay forward what i've experienced in my

23

00:00:48,549 --> 00:00:47,280

career i've had the benefit of many

24

00:00:50,869 --> 00:00:48,559

mentors

25

00:00:52,150 --> 00:00:50,879

as i've changed roles throughout my

26

00:00:54,950 --> 00:00:52,160

career and

27

00:00:57,750 --> 00:00:54,960

this to me is an important job as far as

28

00:01:00,310 --> 00:00:57,760

recruiting future talent so what i enjoy

29

00:01:01,590 --> 00:01:00,320

most is the opportunity to potentially

30

00:01:03,349 --> 00:01:01,600

affect

31

00:01:05,990 --> 00:01:03,359

you know the future of one of the

32

00:01:07,990 --> 00:01:06,000

students that i could mentor

33

00:01:13,109 --> 00:01:08,000

that's a good question

34

00:01:17,910 --> 00:01:15,590

hi my name is elizabeth miner and my

35

00:01:20,310 --> 00:01:17,920

question is if our ability to fully

36

00:01:22,710 --> 00:01:20,320

understand space is limited by light and

37

00:01:24,870 --> 00:01:22,720

other factors in outer space why do you

38

00:01:26,870 --> 00:01:24,880

believe it's important to begin space

39

00:01:28,310 --> 00:01:26,880

research and how can it benefit our

40

00:01:30,550 --> 00:01:28,320

society

41

00:01:33,270 --> 00:01:30,560

space research is so important in so

42

00:01:35,590 --> 00:01:33,280

many ways you know researchers are have

43

00:01:37,109 --> 00:01:35,600

curiosity and curiosity is what drives

44

00:01:39,109 --> 00:01:37,119

what we do

45

00:01:40,950 --> 00:01:39,119

the the deeper the level of curiosity

46

00:01:42,870 --> 00:01:40,960

the more that we can uncover

47

00:01:44,469 --> 00:01:42,880

a parallel would be like your education

48

00:01:46,149 --> 00:01:44,479

you know you start out with a bachelor's

49

00:01:48,469 --> 00:01:46,159

degree you maintain that level of

50

00:01:51,670 --> 00:01:48,479

curiosity you consider maybe pursuing

51
00:01:53,670 --> 00:01:51,680
the masters maybe the phd and with each

52
00:01:55,830 --> 00:01:53,680
advanced degree you're learning more so

53
00:01:58,069 --> 00:01:55,840
research is similar the parallel would

54
00:01:59,670 --> 00:01:58,079
be that with continued research you just

55
00:02:02,230 --> 00:01:59,680
uncover more so

56
00:02:04,149 --> 00:02:02,240
it drives it drives what we learn that

57
00:02:06,149 --> 00:02:04,159
we bring back benefits to the earth for

58
00:02:08,630 --> 00:02:06,159
for example you know

59
00:02:10,790 --> 00:02:08,640
you can you can have a hypothesis in the

60
00:02:12,869 --> 00:02:10,800
lab that your outcomes are completely

61
00:02:15,270 --> 00:02:12,879
different from what you expected but

62
00:02:17,510 --> 00:02:15,280
what you uncover is equally valuable and

63
00:02:19,910 --> 00:02:17,520

uh it can be translated sometimes into

64

00:02:21,750 --> 00:02:19,920

completely non-related fields um if you

65

00:02:22,390 --> 00:02:21,760

take um the

66

00:02:24,470 --> 00:02:22,400

the

67

00:02:26,869 --> 00:02:24,480

robotics research that was done in

68

00:02:29,910 --> 00:02:26,879

creating the canadian arm you can

69

00:02:31,589 --> 00:02:29,920

translate that into the medical industry

70

00:02:33,270 --> 00:02:31,599

and there have been individuals

71

00:02:35,190 --> 00:02:33,280

diagnosed with tumors that were

72

00:02:36,470 --> 00:02:35,200

inoperable but

73

00:02:37,589 --> 00:02:36,480

if you have

74

00:02:39,750 --> 00:02:37,599

you know

75

00:02:40,949 --> 00:02:39,760

computer-based uh operations that are

76

00:02:42,309 --> 00:02:40,959

guided

77

00:02:44,390 --> 00:02:42,319

you know you have more precision

78

00:02:46,790 --> 00:02:44,400

capability than if a human hand was

79

00:02:49,430 --> 00:02:46,800

performing that same surgery so these

80

00:02:51,830 --> 00:02:49,440

individuals that have the benefit of

81

00:02:54,070 --> 00:02:51,840

this technology have a second chance at

82

00:02:56,790 --> 00:02:54,080

life so that's one of the benefits

83

00:02:59,030 --> 00:02:56,800

another in a completely different

84

00:03:00,149 --> 00:02:59,040

field would be you know the purview from

85

00:03:03,509 --> 00:03:00,159

which

86

00:03:05,750 --> 00:03:03,519

we have a view of earth from station if

87

00:03:08,710 --> 00:03:05,760

you were to take photographs which we do

88

00:03:11,190 --> 00:03:08,720

we take imagery from station and we have

89

00:03:13,589 --> 00:03:11,200

the opportunity to um conduct earth

90

00:03:16,630 --> 00:03:13,599

observations um things for example like

91

00:03:19,110 --> 00:03:16,640

uh right um you can see beautiful things

92

00:03:21,350 --> 00:03:19,120

that like the aurora or you could see

93

00:03:23,750 --> 00:03:21,360

things that can benefit us in terms of

94

00:03:25,750 --> 00:03:23,760

disaster preparedness

95

00:03:27,670 --> 00:03:25,760

volcanic eruptions we don't see them

96

00:03:29,589 --> 00:03:27,680

from that purview but you can

97

00:03:30,309 --> 00:03:29,599

global change

98

00:03:35,110 --> 00:03:30,319

the

99

00:03:37,190 --> 00:03:35,120

opportunity to um to see

100

00:03:39,430 --> 00:03:37,200

how the surface of the earth changes

101
00:03:40,710 --> 00:03:39,440
over time by the way in case you guys

102
00:03:42,149 --> 00:03:40,720
saw that picture that just popped up on

103
00:03:43,430 --> 00:03:42,159
the screen that seth put up there that

104
00:03:45,270 --> 00:03:43,440
is actually

105
00:03:48,390 --> 00:03:45,280
the cities of houston

106
00:03:50,869 --> 00:03:48,400
dallas austin is in there uh san antonio

107
00:03:52,550 --> 00:03:50,879
is in there and uh waco temple killeen

108
00:03:53,910 --> 00:03:52,560
that sort of area so that's on the

109
00:03:55,030 --> 00:03:53,920
internet in case you saw that that's i

110
00:03:56,630 --> 00:03:55,040
know some of you are from austin some

111
00:03:58,630 --> 00:03:56,640
other places that's that's your hometown

112
00:04:02,789 --> 00:03:58,640
down there

113
00:04:07,589 --> 00:04:05,030

hi i'm abigail i'm from western north

114

00:04:08,309 --> 00:04:07,599

carolina and i just want to know why you

115

00:04:09,990 --> 00:04:08,319

think

116

00:04:12,390 --> 00:04:10,000

it's important to be constantly

117

00:04:15,350 --> 00:04:12,400

researching topics in science especially

118

00:04:17,270 --> 00:04:15,360

on the iss and this ties into the

119

00:04:19,830 --> 00:04:17,280

question that was just asked it's about

120

00:04:21,430 --> 00:04:19,840

continuing um your research so that you

121

00:04:22,950 --> 00:04:21,440

can go to that deeper level of

122

00:04:25,749 --> 00:04:22,960

understanding

123

00:04:27,990 --> 00:04:25,759

you know curiosity doesn't have like a

124

00:04:31,270 --> 00:04:28,000

terminal point i mean you're as curious

125

00:04:33,270 --> 00:04:31,280

as you desire to be so with continued

126
00:04:35,830 --> 00:04:33,280
curiosity there's an opportunity to

127
00:04:37,830 --> 00:04:35,840
learn more and the more we know the the

128
00:04:40,830 --> 00:04:37,840
more we can you know live the best

129
00:04:46,390 --> 00:04:40,840
possible lives here on

130
00:04:50,870 --> 00:04:48,870
hi my name is lauren sherwood and my

131
00:04:53,749 --> 00:04:50,880
question was what role do international

132
00:04:56,150 --> 00:04:53,759
relations play in your daily work

133
00:04:58,070 --> 00:04:56,160
that's a really good question so since i

134
00:05:00,070 --> 00:04:58,080
joined the joined the program science

135
00:05:03,350 --> 00:05:00,080
office i have this great opportunity on

136
00:05:05,430 --> 00:05:03,360
a monthly basis to take part in um

137
00:05:07,350 --> 00:05:05,440
monthly telecons with our international

138
00:05:09,590 --> 00:05:07,360

partners and if you think about it it's

139

00:05:12,150 --> 00:05:09,600

so fascinating that you know we are

140

00:05:14,710 --> 00:05:12,160

connected from all over the world japan

141

00:05:17,430 --> 00:05:14,720

canada russia you know we we are in a

142

00:05:19,189 --> 00:05:17,440

telecon it's morning in in one place

143

00:05:21,510 --> 00:05:19,199

it's afternoon and another and it's

144

00:05:23,110 --> 00:05:21,520

evening somewhere else but we all take

145

00:05:26,070 --> 00:05:23,120

that time out of our you know

146

00:05:28,550 --> 00:05:26,080

non-business hours to um to you know

147

00:05:30,070 --> 00:05:28,560

conduct our shared vision on on you know

148

00:05:32,790 --> 00:05:30,080

products that we are producing in the

149

00:05:34,950 --> 00:05:32,800

program science office as a team so that

150

00:05:37,189 --> 00:05:34,960

we can you know bring all um

151
00:05:39,350 --> 00:05:37,199
of what we learn to the public

152
00:05:40,710 --> 00:05:39,360
well and people to add to that

153
00:05:42,790 --> 00:05:40,720
these different control rooms like here

154
00:05:45,350 --> 00:05:42,800
in mission control they talk with people

155
00:05:46,550 --> 00:05:45,360
in japan and russia and canada and

156
00:05:48,150 --> 00:05:46,560
europe and

157
00:05:49,670 --> 00:05:48,160
germany all over the place every single

158
00:05:51,270 --> 00:05:49,680
day and even the people in our office

159
00:05:53,029 --> 00:05:51,280
the public affairs officers there's a

160
00:05:54,469 --> 00:05:53,039
handful of us that get to travel four

161
00:05:55,749 --> 00:05:54,479
times a year over to russia and

162
00:05:57,189 --> 00:05:55,759
kazakhstan

163
00:05:58,469 --> 00:05:57,199

for the soyuz launch and landings that's

164

00:05:59,990 --> 00:05:58,479

where we launch and land our astronauts

165

00:06:02,070 --> 00:06:00,000

now that we don't have a space shuttle

166

00:06:03,430 --> 00:06:02,080

um so we work with those guys very

167

00:06:04,309 --> 00:06:03,440

closely over there and something that

168

00:06:06,629 --> 00:06:04,319

you know you grow up and you don't

169

00:06:08,070 --> 00:06:06,639

really ever picture yourself

170

00:06:09,110 --> 00:06:08,080

uh doing something like that but

171

00:06:11,670 --> 00:06:09,120

whenever you work for something like

172

00:06:13,590 --> 00:06:11,680

nasa it's uh so true it becomes not

173

00:06:15,830 --> 00:06:13,600

normal but

174

00:06:17,670 --> 00:06:15,840

we take it for granted so it uh you know

175

00:06:19,350 --> 00:06:17,680

it's it's a fun job and i'm still at

176

00:06:20,790 --> 00:06:19,360

that point where i'm still excited about

177

00:06:23,749 --> 00:06:20,800

it i haven't taken it for granted quite

178

00:06:29,430 --> 00:06:23,759

yet and i hope i don't

179

00:06:33,990 --> 00:06:31,510

hi my name is belinda grenfeld i'm from

180

00:06:36,629 --> 00:06:34,000

new york i was wondering how working

181

00:06:39,510 --> 00:06:36,639

with the iss and nasa has changed your

182

00:06:41,430 --> 00:06:39,520

perspective on daily life

183

00:06:44,550 --> 00:06:41,440

working with nasa and the international

184

00:06:46,309 --> 00:06:44,560

space station is um so powerful really

185

00:06:48,469 --> 00:06:46,319

um you know if you have a conversation

186

00:06:51,589 --> 00:06:48,479

with a neighbor with a family member you

187

00:06:53,990 --> 00:06:51,599

can still see how nasa has that brand

188

00:06:57,110 --> 00:06:54,000

that just resonates with people you know

189

00:06:59,350 --> 00:06:57,120

brings them back to memories of apollo

190

00:07:01,670 --> 00:06:59,360

shuttle memories and you know what the

191

00:07:04,790 --> 00:07:01,680

future has in store for us so the the

192

00:07:07,189 --> 00:07:04,800

brand identity that the nasa meatball so

193

00:07:09,670 --> 00:07:07,199

to speak holds is it's powerful and i

194

00:07:12,150 --> 00:07:09,680

feel so fortunate to be a part of that

195

00:07:13,990 --> 00:07:12,160

and also i think uh you know at least i

196

00:07:16,309 --> 00:07:14,000

grew up in texas and

197

00:07:17,589 --> 00:07:16,319

uh you know if if you met somebody when

198

00:07:19,270 --> 00:07:17,599

i was growing up that's from you know

199

00:07:20,469 --> 00:07:19,280

the upper northeast coast or something

200

00:07:21,990 --> 00:07:20,479

like that you know they were considered

201
00:07:24,070 --> 00:07:22,000
so far away and whenever you work here

202
00:07:26,629 --> 00:07:24,080
you work with people all over the world

203
00:07:28,070 --> 00:07:26,639
and it's just normal you know it it uh

204
00:07:29,990 --> 00:07:28,080
you realize this is a very small planet

205
00:07:32,550 --> 00:07:30,000
we live on and everybody is is much i

206
00:07:34,230 --> 00:07:32,560
think more closely aligned than than we

207
00:07:35,670 --> 00:07:34,240
are different and that's one thing you

208
00:07:37,510 --> 00:07:35,680
know you can talk to people in japan

209
00:07:39,350 --> 00:07:37,520
like i talked about in russia and places

210
00:07:41,029 --> 00:07:39,360
like that and it's just kind of

211
00:07:42,629 --> 00:07:41,039
it's just normal it just feels like

212
00:07:45,589 --> 00:07:42,639
they're sitting right next to you right

213
00:07:50,309 --> 00:07:45,599

next to you so true

214

00:07:54,150 --> 00:07:52,230

hello there i'm elena renzi from

215

00:07:55,830 --> 00:07:54,160

peachtree city georgia and i would like

216

00:07:57,589 --> 00:07:55,840

to know how do you remain calm and

217

00:08:00,150 --> 00:07:57,599

collected during a stressful moment in

218

00:08:01,909 --> 00:08:00,160

mission control

219

00:08:02,950 --> 00:08:01,919

so the flight controllers are highly

220

00:08:04,150 --> 00:08:02,960

trained

221

00:08:05,990 --> 00:08:04,160

you know

222

00:08:07,830 --> 00:08:06,000

to allow the distress to take you over

223

00:08:09,670 --> 00:08:07,840

is really a decision

224

00:08:12,390 --> 00:08:09,680

you know it has to be a conscious

225

00:08:15,029 --> 00:08:12,400

decision to stay calm and it requires

226

00:08:16,869 --> 00:08:15,039

practice and you know they they conduct

227

00:08:19,510 --> 00:08:16,879

you know

228

00:08:21,189 --> 00:08:19,520

simulations in their practice where they

229

00:08:23,510 --> 00:08:21,199

prepare for the anomalies they prepare

230

00:08:25,749 --> 00:08:23,520

for those unexpected events so when they

231

00:08:27,270 --> 00:08:25,759

do happen if they happen you know it's

232

00:08:29,350 --> 00:08:27,280

it's not the first time that they've

233

00:08:31,350 --> 00:08:29,360

seen this and so it affords them the

234

00:08:33,029 --> 00:08:31,360

opportunity to um

235

00:08:35,110 --> 00:08:33,039

be somewhat prepared

236

00:08:36,870 --> 00:08:35,120

you know to stay focused it allows you

237

00:08:39,670 --> 00:08:36,880

to think more clearly so it's in your

238

00:08:40,949 --> 00:08:39,680

best interest to develop that skill as

239

00:08:43,190 --> 00:08:40,959

best you can

240

00:08:45,269 --> 00:08:43,200

um and you know it allows you to find

241

00:08:47,430 --> 00:08:45,279

that resolution that much more quickly

242

00:08:48,949 --> 00:08:47,440

so it's a decision and i think that's

243

00:08:50,790 --> 00:08:48,959

what shocks people the most you know

244

00:08:52,710 --> 00:08:50,800

they've seen the movies yeah and they

245

00:08:53,990 --> 00:08:52,720

see you know a pretty

246

00:08:55,030 --> 00:08:54,000

crazy environment here inside mission

247

00:08:56,230 --> 00:08:55,040

control and the first time that i came

248

00:08:57,509 --> 00:08:56,240

here years ago that was the thing that

249

00:08:59,670 --> 00:08:57,519

shocked me the most is that it's not

250

00:09:01,030 --> 00:08:59,680

like that at all it is so calm right

251

00:09:02,949 --> 00:09:01,040

it's so professional and so quiet

252

00:09:04,070 --> 00:09:02,959

there's no you know dramatic music

253

00:09:06,070 --> 00:09:04,080

playing or anything like that at all

254

00:09:07,910 --> 00:09:06,080

people are just very focused on their

255

00:09:09,590 --> 00:09:07,920

jobs and and you know we could have a

256

00:09:10,470 --> 00:09:09,600

major issue happening and if you walked

257

00:09:11,670 --> 00:09:10,480

in here you stood in the room you

258

00:09:13,030 --> 00:09:11,680

probably wouldn't even

259

00:09:14,310 --> 00:09:13,040

know it unless you were listening to the

260

00:09:15,509 --> 00:09:14,320

headset but there's you're looking at

261

00:09:17,269 --> 00:09:15,519

brian smith that's the flight director

262

00:09:18,870 --> 00:09:17,279

sitting there on the far right-hand side

263

00:09:19,990 --> 00:09:18,880

uh in the capcom

264

00:09:21,190 --> 00:09:20,000

is there on the left but those guys are

265

00:09:22,790 --> 00:09:21,200

pretty much in charge of this team here

266

00:09:23,910 --> 00:09:22,800

and it's just incredibly focused and

267

00:09:24,870 --> 00:09:23,920

incredibly

268

00:09:26,470 --> 00:09:24,880

um

269

00:09:28,550 --> 00:09:26,480

they just they just work their jobs you

270

00:09:30,790 --> 00:09:28,560

know it's just it's very

271

00:09:37,910 --> 00:09:30,800

solid

272

00:09:42,230 --> 00:09:40,150

hi i'm nina singh from kansas city

273

00:09:44,310 --> 00:09:42,240

kansas and i was wondering what do you

274

00:09:48,070 --> 00:09:44,320

think is the next step in space research

275

00:09:49,590 --> 00:09:48,080

in the iss and in the future in general

276

00:09:51,750 --> 00:09:49,600

from my perspective and in the work that

277

00:09:53,670 --> 00:09:51,760

i do in the program science office our

278

00:09:56,870 --> 00:09:53,680

focus right now is to bring in new

279

00:09:59,269 --> 00:09:56,880

researchers we want to expand the use of

280

00:10:02,389 --> 00:09:59,279

our platform this is a national lab that

281

00:10:06,949 --> 00:10:02,399

is open and available for use so i'm

282

00:10:09,829 --> 00:10:06,959

working on a 15-book set of um it's a

283

00:10:12,389 --> 00:10:09,839

dis it's a series of books by discipline

284

00:10:15,350 --> 00:10:12,399

that we hope will connect

285

00:10:17,350 --> 00:10:15,360

the experts in those disciplines to uh

286

00:10:18,389 --> 00:10:17,360

the potential use of the platform you

287

00:10:20,150 --> 00:10:18,399

know

288

00:10:21,990 --> 00:10:20,160

folks don't realize that they may be

289

00:10:23,030 --> 00:10:22,000

able to translate their ground-based

290

00:10:25,750 --> 00:10:23,040

research

291

00:10:27,190 --> 00:10:25,760

onto the iss so that is the hope for

292

00:10:29,269 --> 00:10:27,200

these books that we're going to get it

293

00:10:30,630 --> 00:10:29,279

into the hands of the right researchers

294

00:10:32,550 --> 00:10:30,640

and that it's going to bring in new

295

00:10:34,069 --> 00:10:32,560

users and then it's not hard i mean

296

00:10:35,269 --> 00:10:34,079

that's that's really one of the biggest

297

00:10:36,790 --> 00:10:35,279

things is that you know people think oh

298

00:10:37,910 --> 00:10:36,800

my gosh how can i even

299

00:10:39,590 --> 00:10:37,920

you know if i'm a scientist how can i

300

00:10:40,949 --> 00:10:39,600

even get my research up aboard the space

301
00:10:42,949 --> 00:10:40,959
station here's this huge laboratory and

302
00:10:44,389 --> 00:10:42,959
it really it's not that's right i mean

303
00:10:45,990 --> 00:10:44,399
it's it's more than just filling out a

304
00:10:47,670 --> 00:10:46,000
form but it's you know it's it's not

305
00:10:48,949 --> 00:10:47,680
it's it's we're trying to make it easier

306
00:10:52,069 --> 00:10:48,959
for scientists to actually have access

307
00:10:52,079 --> 00:11:00,150
all right thank you

308
00:11:00,160 --> 00:11:05,509
that's a cool t-shirt

309
00:11:10,230 --> 00:11:07,269
my name is abigail lindsey and i'm from

310
00:11:12,710 --> 00:11:10,240
mobile alabama and i was wondering

311
00:11:15,430 --> 00:11:12,720
as a successful woman in stem what

312
00:11:17,190 --> 00:11:15,440
discouragement have you had to overcome

313
00:11:19,990 --> 00:11:17,200

and what encouragement and advice would

314

00:11:21,829 --> 00:11:20,000

you give to girls interested in stem

315

00:11:23,190 --> 00:11:21,839

so i'll start with the encouragement i

316

00:11:24,870 --> 00:11:23,200

think that

317

00:11:26,790 --> 00:11:24,880

one of the best things that you can do

318

00:11:28,630 --> 00:11:26,800

is learn how to work well in a team

319

00:11:30,150 --> 00:11:28,640

environment because that is so much what

320

00:11:31,910 --> 00:11:30,160

we do

321

00:11:34,790 --> 00:11:31,920

in addition

322

00:11:36,470 --> 00:11:34,800

have um an understanding of the value

323

00:11:38,150 --> 00:11:36,480

that diversity brings to a team

324

00:11:39,590 --> 00:11:38,160

environment because

325

00:11:41,509 --> 00:11:39,600

you know you don't want to be on a team

326

00:11:42,870 --> 00:11:41,519

with clones of yourself because really

327

00:11:45,910 --> 00:11:42,880

you're all going to derive the same

328

00:11:47,829 --> 00:11:45,920

answer or the same approach to an issue

329

00:11:50,069 --> 00:11:47,839

but when you have diversity you have the

330

00:11:51,990 --> 00:11:50,079

opportunity to see things from multiple

331

00:11:53,190 --> 00:11:52,000

perspectives and come up with the most

332

00:11:55,590 --> 00:11:53,200

innovative

333

00:11:56,870 --> 00:11:55,600

solution to the issue

334

00:11:58,550 --> 00:11:56,880

and finally

335

00:12:01,030 --> 00:11:58,560

be open-minded about those different

336

00:12:04,629 --> 00:12:01,040

approaches so that your team members

337

00:12:10,150 --> 00:12:07,350

so disadvantages you know don't don't

338

00:12:12,790 --> 00:12:10,160

look at any disappointments as a failure

339

00:12:14,069 --> 00:12:12,800

just move through them and you know find

340

00:12:15,190 --> 00:12:14,079

that silver lining because i believe

341

00:12:17,110 --> 00:12:15,200

there always is one there's an

342

00:12:19,430 --> 00:12:17,120

opportunity to learn

343

00:12:22,310 --> 00:12:19,440

so a disadvantage isn't a negative it's

344

00:12:23,990 --> 00:12:22,320

just an opportunity to grow so just keep

345

00:12:25,269 --> 00:12:24,000

that momentum through that disadvantage

346

00:12:27,910 --> 00:12:25,279

and find that light at the end of the

347

00:12:34,629 --> 00:12:27,920

tunnel yeah

348

00:12:38,069 --> 00:12:36,629

hi i'm megan cooney and i would like to

349

00:12:39,509 --> 00:12:38,079

know what personality traits and

350

00:12:41,190 --> 00:12:39,519

characteristics do you think are most

351
00:12:42,629 --> 00:12:41,200
important to be a successful woman in a

352
00:12:44,389 --> 00:12:42,639
stem career

353
00:12:46,310 --> 00:12:44,399
i think it starts with knowing yourself

354
00:12:48,389 --> 00:12:46,320
and it requires some introspection as

355
00:12:50,470 --> 00:12:48,399
you grow and and learn more about

356
00:12:52,470 --> 00:12:50,480
yourself but when you know

357
00:12:53,750 --> 00:12:52,480
what motivates you you're going to do

358
00:12:55,990 --> 00:12:53,760
your best and you're going to want to

359
00:12:57,509 --> 00:12:56,000
come to work every day just like we do

360
00:13:00,150 --> 00:12:57,519
and you're going to you're going to

361
00:13:03,110 --> 00:13:00,160
excel because being at work isn't a job

362
00:13:05,430 --> 00:13:03,120
it's a career and you feel pride in in

363
00:13:06,870 --> 00:13:05,440

the work that you're conducting

364

00:13:08,230 --> 00:13:06,880

and we just talked to peggy whitson and

365

00:13:09,990 --> 00:13:08,240

pam melroy too

366

00:13:12,310 --> 00:13:10,000

uh pretty famous astronauts and the two

367

00:13:13,829 --> 00:13:12,320

women commanders one uh was scs-120

368

00:13:14,949 --> 00:13:13,839

commander one was expedition 16

369

00:13:16,230 --> 00:13:14,959

commander and

370

00:13:17,509 --> 00:13:16,240

i kind of asked him the same sort of

371

00:13:18,550 --> 00:13:17,519

question you know for people who are

372

00:13:19,910 --> 00:13:18,560

going into science how do they figure

373

00:13:21,509 --> 00:13:19,920

out what they want and they both sort of

374

00:13:22,629 --> 00:13:21,519

said the same thing which is you got to

375

00:13:24,069 --> 00:13:22,639

follow your passion and that's to

376

00:13:25,269 --> 00:13:24,079

amelia's answer you got to know yourself

377

00:13:27,430 --> 00:13:25,279

you really got to go find something that

378

00:13:28,710 --> 00:13:27,440

you really love to do because

379

00:13:30,389 --> 00:13:28,720

there's a shot of peggy on the left i

380

00:13:32,069 --> 00:13:30,399

mean on the right and pam on the left

381

00:13:33,750 --> 00:13:32,079

but you got to go find what your passion

382

00:13:34,949 --> 00:13:33,760

is and chase after it and that'll lead

383

00:13:36,069 --> 00:13:34,959

to success that's probably the most

384

00:13:39,509 --> 00:13:36,079

important thing i think everybody in

385

00:13:46,550 --> 00:13:39,519

this room would would tell you agreed

386

00:13:50,629 --> 00:13:48,870

hi i'm noah chacuti and i was wondering

387

00:13:52,550 --> 00:13:50,639

how important is outreach and drawing

388

00:13:54,550 --> 00:13:52,560

awareness to nasa and creating an

389

00:13:56,310 --> 00:13:54,560

interest in stem fields

390

00:13:58,949 --> 00:13:56,320

that's a really important question it is

391

00:14:00,550 --> 00:13:58,959

so important in parallel to

392

00:14:01,990 --> 00:14:00,560

the really cool and interesting stuff

393

00:14:04,629 --> 00:14:02,000

we're doing we need to recruit our

394

00:14:06,790 --> 00:14:04,639

future talent so that's the job that we

395

00:14:09,269 --> 00:14:06,800

need to do to secure those

396

00:14:11,110 --> 00:14:09,279

students that are focusing on stem who

397

00:14:13,189 --> 00:14:11,120

are going to be our future astronauts

398

00:14:15,430 --> 00:14:13,199

our future business leaders our future

399

00:14:17,189 --> 00:14:15,440

scientists you know we need to make sure

400

00:14:19,110 --> 00:14:17,199

we have that pool of candidates that we

401
00:14:21,590 --> 00:14:19,120
can draw from so it's extremely

402
00:14:28,870 --> 00:14:21,600
important yeah

403
00:14:32,949 --> 00:14:30,790
hi i'm nikki theresia from saratoga

404
00:14:34,710 --> 00:14:32,959
california and i was wondering having

405
00:14:37,829 --> 00:14:34,720
seen science and research both in their

406
00:14:39,110 --> 00:14:37,839
incipients at isef and at their apex at

407
00:14:41,110 --> 00:14:39,120
the iss

408
00:14:43,110 --> 00:14:41,120
have you seen any progression in growth

409
00:14:44,790 --> 00:14:43,120
and if so what would you advise those

410
00:14:46,550 --> 00:14:44,800
interested in research and science to

411
00:14:48,629 --> 00:14:46,560
focus on and pursue

412
00:14:51,189 --> 00:14:48,639
so this goes back to following you know

413
00:14:53,670 --> 00:14:51,199

what motivates you um you know if you're

414

00:14:56,150 --> 00:14:53,680

if you try and

415

00:14:57,750 --> 00:14:56,160

follow a career path that someone that

416

00:14:59,670 --> 00:14:57,760

you admire

417

00:15:02,150 --> 00:14:59,680

has followed then you're really not

418

00:15:04,389 --> 00:15:02,160

doing anything unique you can certainly

419

00:15:06,069 --> 00:15:04,399

look to them as role models but you know

420

00:15:08,949 --> 00:15:06,079

what's going to bring you to your

421

00:15:11,509 --> 00:15:08,959

highest level of success or to use your

422

00:15:15,030 --> 00:15:11,519

words the apex of of your

423

00:15:17,350 --> 00:15:15,040

capabilities is to to follow what

424

00:15:19,430 --> 00:15:17,360

has what gives that fire to your soul

425

00:15:21,590 --> 00:15:19,440

you know and really just pursue what

426

00:15:23,829 --> 00:15:21,600

motivates you and drives you

427

00:15:26,069 --> 00:15:23,839

so it's it's less about

428

00:15:28,230 --> 00:15:26,079

choosing a focus area and more about

429

00:15:29,829 --> 00:15:28,240

just allowing yourself to lead you're

430

00:15:31,910 --> 00:15:29,839

going to be leading yourself to your own

431

00:15:40,069 --> 00:15:31,920

interests

432

00:15:44,550 --> 00:15:42,470

hi my name is katie morris and i'm from

433

00:15:46,870 --> 00:15:44,560

alabama and my question is did you have

434

00:15:49,509 --> 00:15:46,880

a mentor on your road to success and if

435

00:15:50,949 --> 00:15:49,519

so what did they teach you that is a

436

00:15:53,189 --> 00:15:50,959

really good question and it's an

437

00:15:55,430 --> 00:15:53,199

important one too i have had multiple

438

00:15:56,790 --> 00:15:55,440

mentors through my career and i will

439

00:15:58,629 --> 00:15:56,800

continue to

440

00:16:00,150 --> 00:15:58,639

uh mentorship isn't always formal

441

00:16:02,550 --> 00:16:00,160

sometimes it can be informal it's

442

00:16:04,470 --> 00:16:02,560

someone you're sitting next to um

443

00:16:06,230 --> 00:16:04,480

and you know you have to seize that

444

00:16:07,189 --> 00:16:06,240

opportunity and

445

00:16:10,069 --> 00:16:07,199

you know

446

00:16:12,550 --> 00:16:10,079

i also believe that part of growing in

447

00:16:14,790 --> 00:16:12,560

your career is to be both a mentor and a

448

00:16:16,949 --> 00:16:14,800

protege throughout your career you know

449

00:16:19,670 --> 00:16:16,959

on the one hand you're you're sharing

450

00:16:21,509 --> 00:16:19,680

your skills and paying it forward so to

451
00:16:23,030 --> 00:16:21,519
speak and on the other hand you're still

452
00:16:26,310 --> 00:16:23,040
leaving yourself open to learning when

453
00:16:28,710 --> 00:16:26,320
you're a protege so um i think that it

454
00:16:30,629 --> 00:16:28,720
benefits us all to um to be both a

455
00:16:33,030 --> 00:16:30,639
mentor and protege throughout our entire

456
00:16:34,310 --> 00:16:33,040
careers and i think you it's good if you

457
00:16:36,069 --> 00:16:34,320
have several different mentors you need

458
00:16:37,910 --> 00:16:36,079
to kind of you know sort of steal from

459
00:16:38,949 --> 00:16:37,920
the best uh through several different

460
00:16:40,310 --> 00:16:38,959
people you don't want to model yourself

461
00:16:41,350 --> 00:16:40,320
after just one person you kind of want

462
00:16:42,870 --> 00:16:41,360
to pull

463
00:16:45,030 --> 00:16:42,880

from the best of of several different

464

00:16:47,269 --> 00:16:45,040

ones and kind of kind of create your own

465

00:16:48,150 --> 00:16:47,279

you know self or whatever it is but uh

466

00:16:49,749 --> 00:16:48,160

you know i think that that's always

467

00:16:50,550 --> 00:16:49,759

served people best just sort of that's

468

00:16:51,749 --> 00:16:50,560

true

469

00:16:53,910 --> 00:16:51,759

have a wide variety of people that you

470

00:16:56,150 --> 00:16:53,920

sort of model yourself after and to add

471

00:16:58,949 --> 00:16:56,160

to that josh i think it's so important

472

00:17:00,629 --> 00:16:58,959

to not be shy i have approached um some

473

00:17:02,389 --> 00:17:00,639

of the best mentorship that i've

474

00:17:03,670 --> 00:17:02,399

received has been through me just

475

00:17:04,870 --> 00:17:03,680

approaching someone and saying you know

476

00:17:06,390 --> 00:17:04,880

do you have some time to sit down with

477

00:17:09,270 --> 00:17:06,400

me and talk to people

478

00:17:10,949 --> 00:17:09,280

and it creates um you know um

479

00:17:14,870 --> 00:17:10,959

professional contacts that you might be

480

00:17:24,710 --> 00:17:14,880

able to uh connect with in the future

481

00:17:30,390 --> 00:17:27,510

i'm ivy chang from arizona and my

482

00:17:32,230 --> 00:17:30,400

question is um what part of research

483

00:17:34,870 --> 00:17:32,240

that has been conducted on the iss did

484

00:17:36,870 --> 00:17:34,880

you find unexpected yet at the same time

485

00:17:38,630 --> 00:17:36,880

very intriguing

486

00:17:40,310 --> 00:17:38,640

i think the student research is always

487

00:17:42,310 --> 00:17:40,320

fun um

488

00:17:45,190 --> 00:17:42,320

you may recall josh there was a school

489

00:17:49,029 --> 00:17:45,200

in san diego where i believe it was a

490

00:17:51,350 --> 00:17:49,039

hebrew academy and um they wanted to

491

00:17:53,430 --> 00:17:51,360

um they wanted to test um some

492

00:17:56,710 --> 00:17:53,440

principles in electrostatics so they had

493

00:17:58,630 --> 00:17:56,720

the astronauts uh charge a um

494

00:18:01,590 --> 00:17:58,640

like a plastic tube

495

00:18:03,350 --> 00:18:01,600

and um introduce a water droplet to that

496

00:18:05,990 --> 00:18:03,360

tube and and what they assumed would

497

00:18:08,070 --> 00:18:06,000

happen i believe was that the water

498

00:18:10,150 --> 00:18:08,080

droplet would just free-form through

499

00:18:13,190 --> 00:18:10,160

microgravity but in reality what

500

00:18:14,789 --> 00:18:13,200

happened was there was an attraction

501
00:18:17,029 --> 00:18:14,799
with the opposite charges and then that

502
00:18:19,029 --> 00:18:17,039
water droplet began to orbit the tubing

503
00:18:20,870 --> 00:18:19,039
and it was not only a surprise to the

504
00:18:24,070 --> 00:18:20,880
students but to the astronauts as well

505
00:18:25,830 --> 00:18:24,080
so um that was one of the exciting um

506
00:18:28,630 --> 00:18:25,840
experiments that was conducted so the

507
00:18:30,789 --> 00:18:28,640
students they always bring a level of

508
00:18:31,909 --> 00:18:30,799
fun to what we do well

509
00:18:33,270 --> 00:18:31,919
you guys probably have seen this before

510
00:18:34,950 --> 00:18:33,280
we had spiders on board we've had

511
00:18:36,549 --> 00:18:34,960
spiders actually up there several times

512
00:18:37,590 --> 00:18:36,559
but uh we were watching i think it was

513
00:18:39,590 --> 00:18:37,600

back during the shuttle mission we had

514

00:18:40,950 --> 00:18:39,600

this spider that that wove this web up

515

00:18:42,789 --> 00:18:40,960

in space and it was just crazy it wasn't

516

00:18:44,230 --> 00:18:42,799

symmetrical at all and then it tore it

517

00:18:45,669 --> 00:18:44,240

down and then built another one that was

518

00:18:47,270 --> 00:18:45,679

perfectly symmetrical and it's like if a

519

00:18:49,350 --> 00:18:47,280

spider which has a brain

520

00:18:51,270 --> 00:18:49,360

you know right significantly smaller

521

00:18:53,750 --> 00:18:51,280

than anybody anything else can figure

522

00:18:55,909 --> 00:18:53,760

out how to adapt to no gravity you know

523

00:18:57,750 --> 00:18:55,919

what what can we do ultimately which is

524

00:19:00,789 --> 00:18:57,760

fascinating that's right it was about

525

00:19:08,150 --> 00:19:00,799

adaptation yeah

526

00:19:12,470 --> 00:19:10,070

hi my name is bryan lewis and i'm from

527

00:19:14,150 --> 00:19:12,480

orange california and my question is

528

00:19:16,150 --> 00:19:14,160

having designed your books to bring in

529

00:19:17,830 --> 00:19:16,160

new researchers what would you look for

530

00:19:19,190 --> 00:19:17,840

in a new researcher like qualities or

531

00:19:20,870 --> 00:19:19,200

experiences

532

00:19:24,230 --> 00:19:20,880

so the researchers that we would likely

533

00:19:26,150 --> 00:19:24,240

being a tr be attracting is

534

00:19:28,470 --> 00:19:26,160

folks that probably have their

535

00:19:30,150 --> 00:19:28,480

doctorates in their disciplines and

536

00:19:31,750 --> 00:19:30,160

already have existing ground-based

537

00:19:34,549 --> 00:19:31,760

research that they could potentially

538

00:19:36,830 --> 00:19:34,559

translate to the platform and

539

00:19:39,990 --> 00:19:36,840

take advantage of the microgravity

540

00:19:41,350 --> 00:19:40,000

environment which would afford them

541

00:19:43,990 --> 00:19:41,360

you know findings that they they

542

00:19:45,990 --> 00:19:44,000

wouldn't see in a lab on earth so that's

543

00:19:48,390 --> 00:19:46,000

the population of researchers that we're

544

00:19:56,789 --> 00:19:48,400

looking for yeah

545

00:20:01,430 --> 00:19:58,630

hi my name is sarah crawford from new

546

00:20:02,950 --> 00:20:01,440

york and my question is do you feel like

547

00:20:05,990 --> 00:20:02,960

being a woman has helped you in your

548

00:20:08,230 --> 00:20:06,000

field or hindered and why

549

00:20:10,549 --> 00:20:08,240

i don't feel like it has helped or

550

00:20:12,549 --> 00:20:10,559

hindered me to be a woman i don't think

551
00:20:14,789 --> 00:20:12,559
that

552
00:20:17,909 --> 00:20:14,799
it is in my best interest to focus on

553
00:20:19,990 --> 00:20:17,919
things i can't control like my gender

554
00:20:22,390 --> 00:20:20,000
i think it's more valuable to use that

555
00:20:23,830 --> 00:20:22,400
energy and that effort towards focusing

556
00:20:25,750 --> 00:20:23,840
on your

557
00:20:28,470 --> 00:20:25,760
capabilities and

558
00:20:30,789 --> 00:20:28,480
you know focusing on being the best

559
00:20:31,830 --> 00:20:30,799
candidate for the jobs that you want to

560
00:20:33,029 --> 00:20:31,840
pursue

561
00:20:35,350 --> 00:20:33,039
so

562
00:20:36,870 --> 00:20:35,360
i wouldn't i wouldn't focus on on gender

563
00:20:39,029 --> 00:20:36,880

or anything that you can't control

564

00:20:41,430 --> 00:20:39,039

definitely put the focus where it's

565

00:20:44,390 --> 00:20:41,440

going to benefit you the most and have

566

00:20:47,110 --> 00:20:44,400

the the greatest dividends um for your

567

00:20:49,830 --> 00:20:47,120

uh career development yeah that's a good

568

00:20:56,710 --> 00:20:49,840

question so we got about five minutes

569

00:21:01,990 --> 00:20:58,390

you can step on up and not be nervous

570

00:21:06,310 --> 00:21:04,310

hi i'm morgan kimberlin i'm from georgia

571

00:21:08,149 --> 00:21:06,320

and i'm just wondering because you were

572

00:21:09,909 --> 00:21:08,159

um asking about

573

00:21:12,230 --> 00:21:09,919

having more researchers come in are

574

00:21:14,830 --> 00:21:12,240

there any specific fields of research

575

00:21:16,630 --> 00:21:14,840

that you would like to have more

576

00:21:19,110 --> 00:21:16,640

research question that's a very good

577

00:21:22,630 --> 00:21:19,120

question we have multiple disciplines

578

00:21:24,870 --> 00:21:22,640

that uh you know we um are creating the

579

00:21:26,310 --> 00:21:24,880

books in support of um

580

00:21:29,669 --> 00:21:26,320

gosh um

581

00:21:31,590 --> 00:21:29,679

you know um i i am working right now on

582

00:21:32,870 --> 00:21:31,600

the rodent science book

583

00:21:36,230 --> 00:21:32,880

we are in the process of writing the

584

00:21:37,909 --> 00:21:36,240

plant book technology demonstration

585

00:21:39,909 --> 00:21:37,919

the list goes on and they're all going

586

00:21:42,870 --> 00:21:39,919

to be available online which is a nice

587

00:21:44,470 --> 00:21:42,880

research resource for all

588

00:21:47,270 --> 00:21:44,480

you know there's no limit uh we don't

589

00:21:50,070 --> 00:21:47,280

want to limit what we can do on station

590

00:21:51,270 --> 00:21:50,080

um but uh that that's the focus right

591

00:21:52,950 --> 00:21:51,280

now those are the books that i'm

592

00:21:54,390 --> 00:21:52,960

currently working on

593

00:21:59,669 --> 00:21:54,400

so we got time for about one more good

594

00:22:03,830 --> 00:22:02,310

um hi i'm ellis i'm from colorado and i

595

00:22:06,149 --> 00:22:03,840

was wondering what your favorite

596

00:22:07,350 --> 00:22:06,159

research experiment currently on the iss

597

00:22:08,789 --> 00:22:07,360

is oh

598

00:22:09,830 --> 00:22:08,799

that's a good one i haven't thought

599

00:22:11,430 --> 00:22:09,840

about that

600

00:22:13,110 --> 00:22:11,440

i can tell you mine i think we talked

601
00:22:14,549 --> 00:22:13,120
about it before mine's earth cam which

602
00:22:16,549 --> 00:22:14,559
is the one that's the sally ride earth

603
00:22:17,830 --> 00:22:16,559
cam she started this back on the shuttle

604
00:22:19,510 --> 00:22:17,840
uh and then put it on board the space

605
00:22:20,950 --> 00:22:19,520
station and it's really a chance for you

606
00:22:23,029 --> 00:22:20,960
guys and we're about to have one coming

607
00:22:24,710 --> 00:22:23,039
up i think july 9th there's another one

608
00:22:26,149 --> 00:22:24,720
that's going to be run where you know

609
00:22:28,710 --> 00:22:26,159
you get to pick what this camera points

610
00:22:30,310 --> 00:22:28,720
down at on earth and and takes photos of

611
00:22:32,390 --> 00:22:30,320
and some of the students

612
00:22:33,909 --> 00:22:32,400
uh photos have just been incredibly

613
00:22:35,350 --> 00:22:33,919

remarkable we've had something like 50

614

00:22:36,950 --> 00:22:35,360

000 students participate in this which

615

00:22:38,710 --> 00:22:36,960

is just

616

00:22:40,230 --> 00:22:38,720

awesome so that that's that's mine

617

00:22:41,510 --> 00:22:40,240

that's that's probably up there i'm

618

00:22:43,190 --> 00:22:41,520

gonna have to think about that a little

619

00:22:44,710 --> 00:22:43,200

bit more i think there's uh more than

620

00:22:46,070 --> 00:22:44,720

one that i like so i haven't picked a

621

00:22:47,270 --> 00:22:46,080

few yeah it's hard to ask the science

622

00:22:49,350 --> 00:22:47,280

guys what their favorite experiment is

623

00:22:50,630 --> 00:22:49,360

because they're kind of over all of them

624

00:22:51,750 --> 00:22:50,640

so they can't really pick a favorite

625

00:22:53,190 --> 00:22:51,760

child but

626

00:22:54,789 --> 00:22:53,200

uh but there's a lot and if you guys

627

00:22:56,070 --> 00:22:54,799

ever want to read about them or take a

628

00:22:57,270 --> 00:22:56,080

look at some of the stuff amelia works

629

00:23:00,149 --> 00:22:57,280

on you know you can always go to the

630

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

nasa website which is nasa.gov station

631

00:23:04,070 --> 00:23:01,840

uh that's the space station home page

632

00:23:05,190 --> 00:23:04,080

but if you look on the left hand side

633

00:23:06,310 --> 00:23:05,200

of the page whenever you go there

634

00:23:07,909 --> 00:23:06,320

there's a there's a button that says

635

00:23:10,070 --> 00:23:07,919

research and technology and if you click

636

00:23:12,070 --> 00:23:10,080

on that

637

00:23:14,630 --> 00:23:12,080

it'll open up and you can pick it by

638

00:23:16,070 --> 00:23:14,640

expedition so we're on expedition 36 now

639

00:23:17,430 --> 00:23:16,080

you can pick it by discipline so you can

640

00:23:18,710 --> 00:23:17,440

take a look at all the different biology

641

00:23:20,230 --> 00:23:18,720

experiments all the different physics

642

00:23:21,510 --> 00:23:20,240

experiments something some things that

643

00:23:23,510 --> 00:23:21,520

some of us don't even understand down

644

00:23:25,029 --> 00:23:23,520

here on the ground but um you could see

645

00:23:27,110 --> 00:23:25,039

the hundreds of experiments that this

646

00:23:29,430 --> 00:23:27,120

crew actually works on and and also the

647

00:23:31,110 --> 00:23:29,440

earth benefits in terms of you know not

648

00:23:33,110 --> 00:23:31,120

only what does this mean to spaceflight

649

00:23:34,950 --> 00:23:33,120

but also what does it mean right here on

650

00:23:36,950 --> 00:23:34,960

earth because sometimes there's impacts

651
00:23:39,110 --> 00:23:36,960
here on earth that we don't really even

652
00:23:41,350 --> 00:23:39,120
uh anticipate uh that actually improve

653
00:23:43,350 --> 00:23:41,360
life here on earth and in our lives here

654
00:23:45,110 --> 00:23:43,360
so all good questions we want to thank

655
00:23:46,390 --> 00:23:45,120
you guys for joining us here on nasa

656
00:23:47,830 --> 00:23:46,400
television and talking with amelia

657
00:23:49,269 --> 00:23:47,840
milley thank you very much for for

658
00:23:51,110 --> 00:23:49,279
taking time out of your day

659
00:23:52,070 --> 00:23:51,120
we hope you guys enjoyed it and we hope

660
00:23:54,630 --> 00:23:52,080
you enjoy