



MISSION CONTROL CENTER
PH-404-000

GMT 1701:16:12:00+

A large screen displaying a data table with multiple columns and rows of text, likely mission parameters or status reports.

PAO



1
00:00:04,070 --> 00:00:02,389
hi everybody i'm josh byerly here in

2
00:00:05,590 --> 00:00:04,080
mission control houston i am joined by

3
00:00:07,190 --> 00:00:05,600
amelia wright she is part of the

4
00:00:08,790 --> 00:00:07,200
international space station program

5
00:00:09,990 --> 00:00:08,800
science team

6
00:00:11,190 --> 00:00:10,000
so she's going to be here probably

7
00:00:13,270 --> 00:00:11,200
answering most of your questions i'll be

8
00:00:15,030 --> 00:00:13,280
here for the basic ones but so we're

9
00:00:18,070 --> 00:00:15,040
ready to take your questions whenever

10
00:00:20,710 --> 00:00:18,080
you are ready over there

11
00:00:22,470 --> 00:00:20,720
all right so um hi um my name's amy

12
00:00:24,550 --> 00:00:22,480
cortero and um

13
00:00:25,830 --> 00:00:24,560

so amelia your bio mentions various

14

00:00:27,990 --> 00:00:25,840

outreach programs you've done i'm

15

00:00:29,589 --> 00:00:28,000

familiar with some of them um i'm from

16

00:00:31,349 --> 00:00:29,599

austin texas

17

00:00:33,270 --> 00:00:31,359

my question is what got you interested

18

00:00:35,510 --> 00:00:33,280

in education outreach and what is your

19

00:00:37,830 --> 00:00:35,520

favorite part about it

20

00:00:40,869 --> 00:00:37,840

education outreach to me is a form of

21

00:00:42,869 --> 00:00:40,879

mentorship and it allows me to

22

00:00:45,430 --> 00:00:42,879

pay forward what i've experienced in my

23

00:00:46,709 --> 00:00:45,440

career i've had the benefit of many

24

00:00:49,029 --> 00:00:46,719

mentors

25

00:00:50,310 --> 00:00:49,039

as i've changed roles throughout my

26

00:00:53,110 --> 00:00:50,320

career and

27

00:00:55,270 --> 00:00:53,120

this to me is an important job as far as

28

00:00:57,910 --> 00:00:55,280

recruiting future talent so

29

00:00:59,750 --> 00:00:57,920

what i enjoy most is the opportunity to

30

00:01:01,510 --> 00:00:59,760

potentially affect

31

00:01:04,149 --> 00:01:01,520

you know the future of one of the

32

00:01:06,149 --> 00:01:04,159

students that i could mentor

33

00:01:11,270 --> 00:01:06,159

that's a good question

34

00:01:16,070 --> 00:01:13,750

hi my name is elizabeth miner and my

35

00:01:18,469 --> 00:01:16,080

question is if our ability to fully

36

00:01:20,870 --> 00:01:18,479

understand space is limited by light and

37

00:01:23,030 --> 00:01:20,880

other factors in outer space why do you

38

00:01:25,030 --> 00:01:23,040

believe it's important to begin space

39

00:01:26,469 --> 00:01:25,040

research and how can it benefit our

40

00:01:28,710 --> 00:01:26,479

society

41

00:01:31,429 --> 00:01:28,720

space research is so important in so

42

00:01:33,749 --> 00:01:31,439

many ways you know researchers are have

43

00:01:35,350 --> 00:01:33,759

curiosity and curiosity is what drives

44

00:01:37,270 --> 00:01:35,360

what we do

45

00:01:39,109 --> 00:01:37,280

the the deeper the level of curiosity

46

00:01:41,109 --> 00:01:39,119

the more that we can uncover

47

00:01:42,630 --> 00:01:41,119

a parallel would be like your education

48

00:01:44,310 --> 00:01:42,640

you know you start out with a bachelor's

49

00:01:46,630 --> 00:01:44,320

degree you maintain that level of

50

00:01:49,830 --> 00:01:46,640

curiosity you consider maybe pursuing

51
00:01:51,830 --> 00:01:49,840
the masters maybe the phd and with each

52
00:01:53,990 --> 00:01:51,840
advanced degree you're learning more so

53
00:01:56,230 --> 00:01:54,000
research is similar the parallel would

54
00:01:59,190 --> 00:01:56,240
be that with continued research you just

55
00:02:01,109 --> 00:01:59,200
uncover more so um it drives it drives

56
00:02:03,350 --> 00:02:01,119
what we learn that we bring back

57
00:02:04,310 --> 00:02:03,360
benefits to the earth for for example

58
00:02:06,789 --> 00:02:04,320
you know

59
00:02:08,949 --> 00:02:06,799
you can you can have a hypothesis in the

60
00:02:11,029 --> 00:02:08,959
lab that your outcomes are completely

61
00:02:13,670 --> 00:02:11,039
different from what you expected but

62
00:02:15,670 --> 00:02:13,680
what you uncover is equally valuable and

63
00:02:17,830 --> 00:02:15,680

it can be translated sometimes into

64

00:02:19,190 --> 00:02:17,840

completely non-related fields

65

00:02:19,990 --> 00:02:19,200

if you take

66

00:02:31,430 --> 00:02:20,000

the

67

00:02:33,350 --> 00:02:31,440

diagnosed with tumors that were

68

00:02:34,630 --> 00:02:33,360

inoperable but

69

00:02:37,830 --> 00:02:34,640

if you have

70

00:02:39,110 --> 00:02:37,840

you know computer-based operations that

71

00:02:40,470 --> 00:02:39,120

are guided

72

00:02:42,550 --> 00:02:40,480

you know you have more precision

73

00:02:44,949 --> 00:02:42,560

capability than if a human hand was

74

00:02:47,589 --> 00:02:44,959

performing that same surgery so these

75

00:02:49,990 --> 00:02:47,599

individuals that have the benefit of

76
00:02:52,229 --> 00:02:50,000
this technology have a second chance at

77
00:02:54,949 --> 00:02:52,239
life so that's one of the benefits

78
00:02:57,190 --> 00:02:54,959
another in a completely different

79
00:02:58,309 --> 00:02:57,200
field would be you know the purview from

80
00:03:01,670 --> 00:02:58,319
which

81
00:03:03,910 --> 00:03:01,680
we have a view of earth from station if

82
00:03:06,869 --> 00:03:03,920
you were to take photographs which we do

83
00:03:08,630 --> 00:03:06,879
we take imagery from station and we have

84
00:03:10,949 --> 00:03:08,640
the opportunity to

85
00:03:12,309 --> 00:03:10,959
conduct earth observations things for

86
00:03:13,270 --> 00:03:12,319
example like

87
00:03:15,350 --> 00:03:13,280
right

88
00:03:18,070 --> 00:03:15,360

you can see beautiful things that like

89

00:03:19,990 --> 00:03:18,080

the aurora or you could see things that

90

00:03:21,910 --> 00:03:20,000

can benefit us in terms of disaster

91

00:03:23,910 --> 00:03:21,920

preparedness

92

00:03:25,830 --> 00:03:23,920

volcanic eruptions we don't see them

93

00:03:27,750 --> 00:03:25,840

from that purview but you can

94

00:03:28,470 --> 00:03:27,760

global change

95

00:03:33,270 --> 00:03:28,480

the

96

00:03:35,350 --> 00:03:33,280

opportunity to um to see

97

00:03:37,589 --> 00:03:35,360

how the service of the earth changes

98

00:03:38,869 --> 00:03:37,599

over time by the way in case you guys

99

00:03:40,309 --> 00:03:38,879

saw that picture that just popped up on

100

00:03:41,589 --> 00:03:40,319

the screen that seth put up there that

101
00:03:43,430 --> 00:03:41,599
is actually

102
00:03:46,550 --> 00:03:43,440
the cities of houston

103
00:03:49,030 --> 00:03:46,560
dallas austin is in there uh san antonio

104
00:03:50,710 --> 00:03:49,040
is in there and uh waco temple killeen

105
00:03:52,070 --> 00:03:50,720
that sort of area so that's on the

106
00:03:53,190 --> 00:03:52,080
internet in case you saw that that's i

107
00:03:54,309 --> 00:03:53,200
know some of you are from austin some

108
00:03:56,789 --> 00:03:54,319
other places that's uh that's your

109
00:04:00,949 --> 00:03:56,799
hometown down there

110
00:04:05,750 --> 00:04:03,190
hi i'm abigail i'm from western north

111
00:04:06,470 --> 00:04:05,760
carolina and i just want to know why you

112
00:04:08,149 --> 00:04:06,480
think

113
00:04:10,550 --> 00:04:08,159

it's important to be constantly

114

00:04:12,149 --> 00:04:10,560

researching topics in science especially

115

00:04:14,229 --> 00:04:12,159

on the iss

116

00:04:17,030 --> 00:04:14,239

and this ties into the question that was

117

00:04:18,789 --> 00:04:17,040

just asked it's about continuing um your

118

00:04:21,270 --> 00:04:18,799

research so that you can go to that

119

00:04:23,909 --> 00:04:21,280

deeper level of understanding um you

120

00:04:26,150 --> 00:04:23,919

know curiosity doesn't have like a

121

00:04:29,430 --> 00:04:26,160

terminal point i mean you're as curious

122

00:04:31,430 --> 00:04:29,440

as you desire to be so with continued

123

00:04:33,990 --> 00:04:31,440

curiosity there's an opportunity to

124

00:04:35,990 --> 00:04:34,000

learn more and the more we know the the

125

00:04:39,909 --> 00:04:36,000

more we can you know live the best

126

00:04:39,919 --> 00:04:44,550

thank you you're welcome

127

00:04:49,030 --> 00:04:47,030

hi my name is lauren sherwood and my

128

00:04:51,909 --> 00:04:49,040

question was what role do international

129

00:04:54,310 --> 00:04:51,919

relations play in your daily work

130

00:04:56,230 --> 00:04:54,320

that's a really good question so since i

131

00:04:58,230 --> 00:04:56,240

joined the joined the program science

132

00:05:01,510 --> 00:04:58,240

office i have this great opportunity on

133

00:05:03,590 --> 00:05:01,520

a monthly basis to take part in

134

00:05:05,510 --> 00:05:03,600

monthly telecons with our international

135

00:05:07,749 --> 00:05:05,520

partners and if you think about it it's

136

00:05:10,310 --> 00:05:07,759

so fascinating that you know we are

137

00:05:12,870 --> 00:05:10,320

connected from all over the world japan

138

00:05:15,670 --> 00:05:12,880

canada russia you know we we are in a

139

00:05:17,350 --> 00:05:15,680

telecon it's morning in in one place

140

00:05:19,670 --> 00:05:17,360

it's afternoon and another and it's

141

00:05:21,270 --> 00:05:19,680

evening somewhere else but we all take

142

00:05:24,230 --> 00:05:21,280

that time out of our you know

143

00:05:26,710 --> 00:05:24,240

non-business hours to um to you know

144

00:05:28,230 --> 00:05:26,720

conduct our shared vision on on you know

145

00:05:30,950 --> 00:05:28,240

products that we are producing in the

146

00:05:33,110 --> 00:05:30,960

program science office as a team so that

147

00:05:35,350 --> 00:05:33,120

we can you know bring all um

148

00:05:37,510 --> 00:05:35,360

of what we learn to the public

149

00:05:38,870 --> 00:05:37,520

well and people to add to that

150

00:05:40,950 --> 00:05:38,880

these different control rooms like here

151
00:05:43,510 --> 00:05:40,960
in mission control they talk with people

152
00:05:44,710 --> 00:05:43,520
in japan and russia and canada and

153
00:05:46,310 --> 00:05:44,720
europe and

154
00:05:47,830 --> 00:05:46,320
germany all over the place every single

155
00:05:49,430 --> 00:05:47,840
day and even the people in our office

156
00:05:51,189 --> 00:05:49,440
the public affairs officers there's a

157
00:05:52,629 --> 00:05:51,199
handful of us that get to travel four

158
00:05:53,990 --> 00:05:52,639
times a year over to russia and

159
00:05:55,350 --> 00:05:54,000
kazakhstan

160
00:05:56,629 --> 00:05:55,360
for the soyuz launch and landings that's

161
00:05:58,150 --> 00:05:56,639
where we launch and land our astronauts

162
00:06:00,230 --> 00:05:58,160
now that we don't have a space shuttle

163
00:06:01,590 --> 00:06:00,240

um so we work with those guys very

164

00:06:02,469 --> 00:06:01,600

closely over there and something that

165

00:06:05,270 --> 00:06:02,479

you know you grow up and you don't

166

00:06:06,550 --> 00:06:05,280

really ever picture yourself

167

00:06:08,390 --> 00:06:06,560

doing something like that but when we

168

00:06:11,749 --> 00:06:08,400

work for something like nasa it's uh so

169

00:06:13,990 --> 00:06:11,759

true it becomes not normal but

170

00:06:15,830 --> 00:06:14,000

we take it for granted so it uh you know

171

00:06:17,510 --> 00:06:15,840

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

172

00:06:18,950 --> 00:06:17,520

that point where i'm still excited about

173

00:06:21,909 --> 00:06:18,960

it i haven't taken it for granted quite

174

00:06:21,919 --> 00:06:27,590

thank you you're welcome

175

00:06:32,150 --> 00:06:29,670

hi my name is belinda greenfeld i'm from

176
00:06:34,790 --> 00:06:32,160
new york i was wondering how working

177
00:06:37,670 --> 00:06:34,800
with the iss and nasa has changed your

178
00:06:39,590 --> 00:06:37,680
perspective on daily life

179
00:06:41,350 --> 00:06:39,600
working with nasa and the international

180
00:06:43,110 --> 00:06:41,360
space station is

181
00:06:44,629 --> 00:06:43,120
so powerful really

182
00:06:46,950 --> 00:06:44,639
you know if you have a conversation with

183
00:06:49,990 --> 00:06:46,960
a neighbor with a family member you can

184
00:06:52,150 --> 00:06:50,000
still see how nasa has that brand that

185
00:06:55,270 --> 00:06:52,160
just resonates with people you know

186
00:06:57,510 --> 00:06:55,280
brings them back to memories of apollo

187
00:06:59,830 --> 00:06:57,520
shuttle memories and you know what the

188
00:07:02,950 --> 00:06:59,840

future has in store for us so the the

189

00:07:05,350 --> 00:07:02,960

brand identity that the nasa meatball so

190

00:07:07,830 --> 00:07:05,360

to speak holds is it's powerful and i

191

00:07:10,309 --> 00:07:07,840

feel so fortunate to be a part of that

192

00:07:12,150 --> 00:07:10,319

and also i think uh you know at least i

193

00:07:14,390 --> 00:07:12,160

grew up in texas in

194

00:07:15,749 --> 00:07:14,400

uh you know if if you met somebody when

195

00:07:17,510 --> 00:07:15,759

i was growing up that's from you know

196

00:07:18,629 --> 00:07:17,520

the upper northeast coast or something

197

00:07:20,150 --> 00:07:18,639

like that you know they were considered

198

00:07:22,230 --> 00:07:20,160

so far away and whenever you work here

199

00:07:24,790 --> 00:07:22,240

you work with people all over the world

200

00:07:26,230 --> 00:07:24,800

and it's just normal you know it it uh

201
00:07:28,150 --> 00:07:26,240
you realize this is a very small planet

202
00:07:30,390 --> 00:07:28,160
we live on and everybody is is much i

203
00:07:31,990 --> 00:07:30,400
think more closely aligned than

204
00:07:33,510 --> 00:07:32,000
than we are different and that's one

205
00:07:35,430 --> 00:07:33,520
thing you know you can talk to people in

206
00:07:37,510 --> 00:07:35,440
japan like i talked about in russia and

207
00:07:39,189 --> 00:07:37,520
places like that it's just kind of

208
00:07:40,550 --> 00:07:39,199
it's just normal it just feels like

209
00:07:43,749 --> 00:07:40,560
they're sitting right next to you like

210
00:07:48,550 --> 00:07:43,759
they're right next to you so true

211
00:07:52,309 --> 00:07:50,390
hello there i'm elena renzi from

212
00:07:53,990 --> 00:07:52,319
peachtree city georgia and i would like

213
00:07:55,749 --> 00:07:54,000

to know how do you remain calm and

214

00:07:58,309 --> 00:07:55,759

collected during a stressful moment in

215

00:08:00,070 --> 00:07:58,319

mission control

216

00:08:02,309 --> 00:08:00,080

so the flight controllers are highly

217

00:08:04,150 --> 00:08:02,319

trained um you know

218

00:08:06,869 --> 00:08:04,160

to allow the distress to take you over

219

00:08:09,510 --> 00:08:06,879

is really a decision um you know it has

220

00:08:11,589 --> 00:08:09,520

to be a conscious decision to stay calm

221

00:08:13,189 --> 00:08:11,599

and it requires practice and you know

222

00:08:15,029 --> 00:08:13,199

they they conduct

223

00:08:17,670 --> 00:08:15,039

you know

224

00:08:19,350 --> 00:08:17,680

simulations in their practice where they

225

00:08:21,670 --> 00:08:19,360

prepare for the anomalies they prepare

226

00:08:23,909 --> 00:08:21,680

for those unexpected events so when they

227

00:08:25,430 --> 00:08:23,919

do happen if they happen you know it's

228

00:08:27,510 --> 00:08:25,440

it's not the first time that they've

229

00:08:29,510 --> 00:08:27,520

seen this and so it affords them the

230

00:08:31,189 --> 00:08:29,520

opportunity to

231

00:08:33,269 --> 00:08:31,199

be somewhat prepared

232

00:08:35,110 --> 00:08:33,279

you know to stay focused it allows you

233

00:08:37,829 --> 00:08:35,120

to think more clearly so it's in your

234

00:08:39,110 --> 00:08:37,839

best interest to develop that skill as

235

00:08:41,350 --> 00:08:39,120

best you can

236

00:08:43,430 --> 00:08:41,360

um and you know it allows you to find

237

00:08:45,590 --> 00:08:43,440

that resolution that much more quickly

238

00:08:46,630 --> 00:08:45,600

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

239

00:08:47,509 --> 00:08:46,640

what shocks people the most just

240

00:08:49,910 --> 00:08:47,519

whenever you know they've seen the

241

00:08:50,870 --> 00:08:49,920

movies yeah and they see you know a

242

00:08:52,150 --> 00:08:50,880

pretty

243

00:08:53,190 --> 00:08:52,160

crazy environment here inside mission

244

00:08:54,389 --> 00:08:53,200

control and the first time that i came

245

00:08:55,670 --> 00:08:54,399

here years ago that was the thing that

246

00:08:57,829 --> 00:08:55,680

shocked me the most is that it's not

247

00:08:59,190 --> 00:08:57,839

like that at all it is so calm right

248

00:09:01,110 --> 00:08:59,200

it's so professional and so quiet

249

00:09:02,230 --> 00:09:01,120

there's no you know dramatic music

250

00:09:04,230 --> 00:09:02,240

playing or anything like that at all

251

00:09:06,070 --> 00:09:04,240

people are just very focused on their

252

00:09:07,750 --> 00:09:06,080

jobs and and you know we could have a

253

00:09:08,630 --> 00:09:07,760

major issue happening and if you walked

254

00:09:09,829 --> 00:09:08,640

in here you stood in the room you

255

00:09:11,190 --> 00:09:09,839

probably wouldn't even

256

00:09:12,470 --> 00:09:11,200

know it unless you were listening to the

257

00:09:13,670 --> 00:09:12,480

headset but there's you're looking at

258

00:09:15,430 --> 00:09:13,680

brian smith that's the flight director

259

00:09:17,030 --> 00:09:15,440

sitting there on the far right-hand side

260

00:09:18,230 --> 00:09:17,040

uh and the capcom

261

00:09:19,430 --> 00:09:18,240

is there on the left but those guys are

262

00:09:20,949 --> 00:09:19,440

pretty much in charge of this team here

263

00:09:23,030 --> 00:09:20,959

and it's just incredibly focused and

264

00:09:24,630 --> 00:09:23,040

incredibly

265

00:09:26,710 --> 00:09:24,640

they just they just work their jobs you

266

00:09:28,949 --> 00:09:26,720

know it's just it's very

267

00:09:36,070 --> 00:09:28,959

solid

268

00:09:40,389 --> 00:09:38,310

hi i'm nina singh from kansas city

269

00:09:42,470 --> 00:09:40,399

kansas and i was wondering what do you

270

00:09:46,230 --> 00:09:42,480

think is the next step in space research

271

00:09:47,750 --> 00:09:46,240

in the iss and in the future in general

272

00:09:49,910 --> 00:09:47,760

from my perspective and in the work that

273

00:09:51,829 --> 00:09:49,920

i do in the program science office our

274

00:09:55,030 --> 00:09:51,839

focus right now is to bring in new

275

00:09:57,430 --> 00:09:55,040

researchers we want to expand the use of

276

00:10:00,550 --> 00:09:57,440

our platform this is a national lab that

277

00:10:02,069 --> 00:10:00,560

is open and available for use so i'm

278

00:10:06,069 --> 00:10:02,079

working on

279

00:10:08,470 --> 00:10:06,079

a 15 book set of um it's a dis it's a

280

00:10:11,829 --> 00:10:08,480

series of books by discipline that we

281

00:10:14,470 --> 00:10:11,839

hope will connect the experts in those

282

00:10:17,030 --> 00:10:14,480

disciplines to uh the potential use of

283

00:10:18,710 --> 00:10:17,040

the platform you know um folks don't

284

00:10:21,190 --> 00:10:18,720

realize that they may be able to

285

00:10:23,910 --> 00:10:21,200

translate their ground-based research

286

00:10:25,350 --> 00:10:23,920

onto the iss so that is the hope for

287

00:10:27,430 --> 00:10:25,360

these books that we're going to get it

288

00:10:28,790 --> 00:10:27,440

into the hands of the right researchers

289

00:10:30,710 --> 00:10:28,800

and that it's going to bring in new

290

00:10:31,990 --> 00:10:30,720

users and that it's not hard i mean

291

00:10:33,110 --> 00:10:32,000

that's that's really i think one of the

292

00:10:34,949 --> 00:10:33,120

biggest things is that you know people

293

00:10:36,069 --> 00:10:34,959

think oh my gosh how can i even

294

00:10:37,750 --> 00:10:36,079

you know if i'm a scientist how can i

295

00:10:39,110 --> 00:10:37,760

even get my research up aboard the space

296

00:10:41,110 --> 00:10:39,120

station here's this huge laboratory and

297

00:10:42,630 --> 00:10:41,120

it really it's not that's right i mean

298

00:10:44,470 --> 00:10:42,640

it's it's more than just filling out a

299

00:10:45,990 --> 00:10:44,480

form but it's you know it's not it's

300

00:10:47,829 --> 00:10:46,000

it's we're trying to make it easier for

301
00:10:50,230 --> 00:10:47,839
scientists to actually have access to it

302
00:10:50,240 --> 00:10:58,389
all right thank you

303
00:10:58,399 --> 00:11:03,670
that's a cool t-shirt

304
00:11:08,389 --> 00:11:05,430
my name is abigail lindsey and i'm from

305
00:11:10,870 --> 00:11:08,399
mobile alabama and i was wondering

306
00:11:13,590 --> 00:11:10,880
as a successful woman in stem what

307
00:11:15,350 --> 00:11:13,600
discouragement have you had to overcome

308
00:11:18,150 --> 00:11:15,360
and what encouragement and advice would

309
00:11:19,990 --> 00:11:18,160
you give to girls interested in stem

310
00:11:22,230 --> 00:11:20,000
so i'll start with the encouragement i

311
00:11:23,990 --> 00:11:22,240
think that uh one of the best things

312
00:11:26,069 --> 00:11:24,000
that you can do is learn how to work

313
00:11:30,069 --> 00:11:26,079

well in a team environment because that

314

00:11:31,269 --> 00:11:30,079

is so much what we do in addition

315

00:11:33,190 --> 00:11:31,279

have

316

00:11:35,350 --> 00:11:33,200

an understanding of the value that

317

00:11:36,310 --> 00:11:35,360

diversity brings to a team environment

318

00:11:37,750 --> 00:11:36,320

because

319

00:11:39,670 --> 00:11:37,760

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

320

00:11:41,030 --> 00:11:39,680

with clones of yourself because really

321

00:11:44,069 --> 00:11:41,040

you're all going to derive the same

322

00:11:46,069 --> 00:11:44,079

answer or the same approach to an issue

323

00:11:48,230 --> 00:11:46,079

but when you have diversity you have the

324

00:11:50,150 --> 00:11:48,240

opportunity to see things from multiple

325

00:11:51,350 --> 00:11:50,160

perspectives and come up with the most

326
00:11:53,750 --> 00:11:51,360
innovative

327
00:11:55,030 --> 00:11:53,760
solution to the issue

328
00:11:56,710 --> 00:11:55,040
and finally

329
00:11:59,190 --> 00:11:56,720
be open-minded about those different

330
00:12:02,790 --> 00:11:59,200
approaches so that your team members

331
00:12:08,310 --> 00:12:05,509
so disadvantages you know don't don't

332
00:12:10,949 --> 00:12:08,320
look at any disappointments as a failure

333
00:12:12,230 --> 00:12:10,959
just move through them and you know find

334
00:12:13,350 --> 00:12:12,240
that silver lining because i believe

335
00:12:15,829 --> 00:12:13,360
there always is one there's an

336
00:12:17,910 --> 00:12:15,839
opportunity to learn um so a

337
00:12:20,629 --> 00:12:17,920
disadvantage isn't a negative it's just

338
00:12:22,310 --> 00:12:20,639

an opportunity to grow so just keep that

339

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

momentum through that disadvantage and

340

00:12:26,069 --> 00:12:24,000

find that light at the end of the tunnel

341

00:12:32,790 --> 00:12:26,079

yeah

342

00:12:36,230 --> 00:12:34,790

hi i'm megan cooney and i would like to

343

00:12:37,670 --> 00:12:36,240

know what personality traits and

344

00:12:39,350 --> 00:12:37,680

characteristics do you think are most

345

00:12:40,790 --> 00:12:39,360

important to be a successful woman in a

346

00:12:42,550 --> 00:12:40,800

stem career

347

00:12:44,470 --> 00:12:42,560

i think it starts with knowing yourself

348

00:12:46,550 --> 00:12:44,480

and it requires some introspection as

349

00:12:48,629 --> 00:12:46,560

you grow and and learn more about

350

00:12:50,629 --> 00:12:48,639

yourself but when you know

351

00:12:51,910 --> 00:12:50,639

what motivates you you're going to do

352

00:12:54,150 --> 00:12:51,920

your best and you're going to want to

353

00:12:55,670 --> 00:12:54,160

come to work every day just like we do

354

00:12:57,990 --> 00:12:55,680

and you're going to you're going to

355

00:13:00,949 --> 00:12:58,000

excel because uh being at work isn't a

356

00:13:03,509 --> 00:13:00,959

job it's a career and you feel pride in

357

00:13:05,030 --> 00:13:03,519

in in the work that you're conducting

358

00:13:06,629 --> 00:13:05,040

yeah we just talked to peggy whitson and

359

00:13:08,150 --> 00:13:06,639

pam melroy two

360

00:13:10,470 --> 00:13:08,160

pretty famous astronauts and the two

361

00:13:11,990 --> 00:13:10,480

women commanders one uh was scs-120

362

00:13:13,829 --> 00:13:12,000

commander one was expedition 16

363

00:13:15,269 --> 00:13:13,839

commander and i kind of asked him the

364

00:13:16,470 --> 00:13:15,279

same sort of question you know for

365

00:13:17,430 --> 00:13:16,480

people who are going into science how do

366

00:13:18,949 --> 00:13:17,440

they figure out what they want and they

367

00:13:20,470 --> 00:13:18,959

both sort of said the same thing which

368

00:13:21,670 --> 00:13:20,480

is you got to follow your passion and

369

00:13:23,030 --> 00:13:21,680

that's to amelia's answer you got to

370

00:13:24,629 --> 00:13:23,040

know yourself you really got to go find

371

00:13:25,590 --> 00:13:24,639

something that you really love to do

372

00:13:26,870 --> 00:13:25,600

because

373

00:13:28,550 --> 00:13:26,880

there's a shot of peggy on the left i

374

00:13:29,910 --> 00:13:28,560

mean on the right and pam on the left

375

00:13:31,430 --> 00:13:29,920

but you've got to go find what your

376

00:13:32,870 --> 00:13:31,440

passion is and chase after it and

377

00:13:33,829 --> 00:13:32,880

that'll lead to success that's probably

378

00:13:35,430 --> 00:13:33,839

the most important thing i think

379

00:13:37,670 --> 00:13:35,440

everybody in this room would would tell

380

00:13:44,710 --> 00:13:37,680

you agreed

381

00:13:48,790 --> 00:13:47,030

hi i'm noah chacuti and i was wondering

382

00:13:50,710 --> 00:13:48,800

how important is outreach and drawing

383

00:13:52,710 --> 00:13:50,720

awareness to nasa and creating an

384

00:13:54,470 --> 00:13:52,720

interest in stem fields

385

00:13:57,110 --> 00:13:54,480

that's a really important question it is

386

00:13:58,710 --> 00:13:57,120

so important in parallel to

387

00:14:00,150 --> 00:13:58,720

the really cool and interesting stuff

388

00:14:02,790 --> 00:14:00,160

we're doing we need to recruit our

389

00:14:04,949 --> 00:14:02,800

future talent so that's the job that we

390

00:14:07,430 --> 00:14:04,959

need to do to secure those

391

00:14:09,269 --> 00:14:07,440

students that are focusing on stem who

392

00:14:11,350 --> 00:14:09,279

are going to be our future astronauts

393

00:14:13,590 --> 00:14:11,360

our future business leaders our future

394

00:14:15,350 --> 00:14:13,600

scientists you know we need to make sure

395

00:14:17,269 --> 00:14:15,360

we have that pool of candidates that we

396

00:14:19,750 --> 00:14:17,279

can draw from so it's extremely

397

00:14:27,030 --> 00:14:19,760

important yeah

398

00:14:31,110 --> 00:14:28,949

hi i'm nikki theresa from saratoga

399

00:14:32,870 --> 00:14:31,120

california and i was wondering having

400

00:14:35,990 --> 00:14:32,880

seen science and research both in their

401
00:14:37,269 --> 00:14:36,000
incipients at isef and at their apex at

402
00:14:39,269 --> 00:14:37,279
the iss

403
00:14:41,350 --> 00:14:39,279
have you seen any progression in growth

404
00:14:42,949 --> 00:14:41,360
and if so what would you advise those

405
00:14:44,710 --> 00:14:42,959
interested in research and science to

406
00:14:46,790 --> 00:14:44,720
focus on and pursue

407
00:14:49,350 --> 00:14:46,800
so this goes back to following you know

408
00:14:51,829 --> 00:14:49,360
what motivates you um you know if you're

409
00:14:54,310 --> 00:14:51,839
if you try and um

410
00:14:55,910 --> 00:14:54,320
follow a career path that someone that

411
00:14:57,829 --> 00:14:55,920
you admire

412
00:15:00,310 --> 00:14:57,839
has followed then you're really not

413
00:15:02,550 --> 00:15:00,320

doing anything unique you can certainly

414

00:15:04,230 --> 00:15:02,560

look to them as role models but you know

415

00:15:07,110 --> 00:15:04,240

what's going to bring you to your

416

00:15:09,670 --> 00:15:07,120

highest level of success or to use your

417

00:15:13,189 --> 00:15:09,680

words the apex of of your

418

00:15:15,509 --> 00:15:13,199

capabilities is to to follow what

419

00:15:17,590 --> 00:15:15,519

has what gives that fire to your soul

420

00:15:19,750 --> 00:15:17,600

you know and really just pursue what

421

00:15:21,990 --> 00:15:19,760

motivates you and drives you

422

00:15:24,230 --> 00:15:22,000

so it's it's less about

423

00:15:26,389 --> 00:15:24,240

choosing a focus area and more about

424

00:15:27,990 --> 00:15:26,399

just allowing yourself to lead you're

425

00:15:30,069 --> 00:15:28,000

going to be leading yourself to your own

426

00:15:38,230 --> 00:15:30,079

interests

427

00:15:42,710 --> 00:15:40,629

hi my name is katie morris and i'm from

428

00:15:45,030 --> 00:15:42,720

alabama and my question is did you have

429

00:15:47,670 --> 00:15:45,040

a mentor on your road to success and if

430

00:15:49,110 --> 00:15:47,680

so what did they teach you that it's a

431

00:15:51,430 --> 00:15:49,120

really good question and it's an

432

00:15:53,590 --> 00:15:51,440

important one too i have had multiple

433

00:15:55,189 --> 00:15:53,600

mentors through my career and i will

434

00:15:57,189 --> 00:15:55,199

continue to

435

00:15:58,870 --> 00:15:57,199

mentorship isn't always formal sometimes

436

00:16:00,710 --> 00:15:58,880

it can be informal it's someone you're

437

00:16:02,629 --> 00:16:00,720

sitting next to

438

00:16:04,389 --> 00:16:02,639

and you know you have to seize that

439

00:16:05,350 --> 00:16:04,399

opportunity and

440

00:16:08,230 --> 00:16:05,360

you know

441

00:16:10,710 --> 00:16:08,240

i also believe that part of growing in

442

00:16:12,949 --> 00:16:10,720

your career is to be both a mentor and a

443

00:16:15,110 --> 00:16:12,959

protege throughout your career you know

444

00:16:17,829 --> 00:16:15,120

on the one hand you're you're sharing

445

00:16:19,670 --> 00:16:17,839

your skills and paying it forward so to

446

00:16:21,189 --> 00:16:19,680

speak and on the other hand you're still

447

00:16:22,389 --> 00:16:21,199

leaving yourself open to learning when

448

00:16:25,990 --> 00:16:22,399

you're a protege

449

00:16:27,910 --> 00:16:26,000

so um i think that it benefits us all to

450

00:16:29,910 --> 00:16:27,920

um to be both a mentor and protege

451

00:16:31,590 --> 00:16:29,920

throughout our entire careers and i

452

00:16:33,269 --> 00:16:31,600

think you it's good if you have several

453

00:16:35,189 --> 00:16:33,279

different mentors you need to kind of

454

00:16:36,310 --> 00:16:35,199

you know sort of steal from the best

455

00:16:37,509 --> 00:16:36,320

uh through several different people you

456

00:16:39,509 --> 00:16:37,519

don't want to model yourself after just

457

00:16:41,269 --> 00:16:39,519

one person you kind of want to pull

458

00:16:43,350 --> 00:16:41,279

from the best of several different ones

459

00:16:45,509 --> 00:16:43,360

and kind of kind of create your own you

460

00:16:46,629 --> 00:16:45,519

know self or whatever it is but uh you

461

00:16:48,710 --> 00:16:46,639

know i think that that's always served

462

00:16:49,910 --> 00:16:48,720

people best is sort of that's true i

463

00:16:52,069 --> 00:16:49,920

have a wide variety of people that you

464

00:16:54,310 --> 00:16:52,079

sort of model yourself after and to add

465

00:16:57,110 --> 00:16:54,320

to that josh i think it's so important

466

00:16:58,790 --> 00:16:57,120

to not be shy i have approached um some

467

00:17:00,550 --> 00:16:58,800

of the best mentorship that i've

468

00:17:01,829 --> 00:17:00,560

received has been through me just

469

00:17:03,030 --> 00:17:01,839

approaching someone and saying you know

470

00:17:04,549 --> 00:17:03,040

do you have some time to sit down with

471

00:17:07,429 --> 00:17:04,559

me and talk to me

472

00:17:09,110 --> 00:17:07,439

and it creates um you know

473

00:17:11,189 --> 00:17:09,120

professional contacts that you might be

474

00:17:13,029 --> 00:17:11,199

able to uh connect with in the future

475

00:17:22,870 --> 00:17:13,039

yeah

476

00:17:28,549 --> 00:17:25,669

i'm ivy chang from arizona and my

477

00:17:30,390 --> 00:17:28,559

question is um what part of research

478

00:17:33,029 --> 00:17:30,400

that has been conducted on the iss did

479

00:17:35,029 --> 00:17:33,039

you find unexpected yet at the same time

480

00:17:36,789 --> 00:17:35,039

very intriguing

481

00:17:38,470 --> 00:17:36,799

i think the student research is always

482

00:17:40,470 --> 00:17:38,480

fun

483

00:17:43,350 --> 00:17:40,480

you may recall josh there was a school

484

00:17:45,830 --> 00:17:43,360

in san diego where i believe it was a

485

00:17:47,909 --> 00:17:45,840

hebrew academy and

486

00:17:51,669 --> 00:17:47,919

they wanted to

487

00:17:54,870 --> 00:17:51,679

electrostatics so they had the

488

00:17:56,870 --> 00:17:54,880

astronauts uh charge a um

489

00:17:57,990 --> 00:17:56,880

like a plastic tube

490

00:18:00,070 --> 00:17:58,000

and um

491

00:18:01,990 --> 00:18:00,080

introduce a water droplet to that tube

492

00:18:04,789 --> 00:18:02,000

and what they assumed would happen i

493

00:18:07,590 --> 00:18:04,799

believe was that the water droplet would

494

00:18:09,190 --> 00:18:07,600

just free form through microgravity but

495

00:18:11,350 --> 00:18:09,200

in reality what happened was there was

496

00:18:12,950 --> 00:18:11,360

an attraction

497

00:18:15,190 --> 00:18:12,960

with the opposite charges and then that

498

00:18:17,190 --> 00:18:15,200

water droplet began to orbit the tubing

499

00:18:19,029 --> 00:18:17,200

and it was not only a surprise to the

500

00:18:19,990 --> 00:18:19,039

students but to the astronauts as well

501
00:18:22,310 --> 00:18:20,000
so

502
00:18:23,990 --> 00:18:22,320
that was one of the exciting

503
00:18:26,230 --> 00:18:24,000
experiments that was conducted so the

504
00:18:28,950 --> 00:18:26,240
students they always bring

505
00:18:30,070 --> 00:18:28,960
a level of fun to what we do well

506
00:18:31,430 --> 00:18:30,080
you guys probably have seen this before

507
00:18:33,110 --> 00:18:31,440
we had spiders on board we've had

508
00:18:34,630 --> 00:18:33,120
spiders actually up there several times

509
00:18:35,669 --> 00:18:34,640
but uh we were watching that i think it

510
00:18:37,669 --> 00:18:35,679
was back during the shuttle mission we

511
00:18:38,870 --> 00:18:37,679
had this spider that that wove this web

512
00:18:40,549 --> 00:18:38,880
up in space and it was just crazy it

513
00:18:42,230 --> 00:18:40,559

wasn't symmetrical at all and then it

514

00:18:43,590 --> 00:18:42,240

tore it down and then built another one

515

00:18:45,430 --> 00:18:43,600

that was perfectly symmetrical it's like

516

00:18:47,510 --> 00:18:45,440

if a spider which has a brain

517

00:18:49,430 --> 00:18:47,520

you know right significantly smaller

518

00:18:51,909 --> 00:18:49,440

than anybody anything else can figure

519

00:18:54,070 --> 00:18:51,919

out how to adapt to no gravity you know

520

00:18:55,909 --> 00:18:54,080

what what can we do ultimately which is

521

00:18:58,950 --> 00:18:55,919

fascinating that's right it was about

522

00:19:06,310 --> 00:18:58,960

adaptation yeah

523

00:19:10,630 --> 00:19:08,310

hi my name is bryan lewis and i'm from

524

00:19:12,310 --> 00:19:10,640

orange california and my question is

525

00:19:14,310 --> 00:19:12,320

having designed your books to bring in

526

00:19:15,990 --> 00:19:14,320

new researchers what would you look for

527

00:19:17,430 --> 00:19:16,000

in a new researcher like qualities or

528

00:19:19,029 --> 00:19:17,440

experiences

529

00:19:19,830 --> 00:19:19,039

so the researchers that we would likely

530

00:19:24,310 --> 00:19:19,840

be

531

00:19:26,630 --> 00:19:24,320

folks that probably have their

532

00:19:28,310 --> 00:19:26,640

doctorates in their disciplines and

533

00:19:29,909 --> 00:19:28,320

already have existing ground-based

534

00:19:32,710 --> 00:19:29,919

research that they could potentially

535

00:19:34,710 --> 00:19:32,720

translate to the platform and

536

00:19:35,909 --> 00:19:34,720

take advantage of the microgravity

537

00:19:38,470 --> 00:19:35,919

environment

538

00:19:40,150 --> 00:19:38,480

which would afford them um you know

539

00:19:43,190 --> 00:19:40,160

findings that they they wouldn't see in

540

00:19:44,950 --> 00:19:43,200

a lab on earth so that's the population

541

00:19:46,549 --> 00:19:44,960

of researchers that we're looking for

542

00:19:54,950 --> 00:19:46,559

yeah

543

00:19:59,590 --> 00:19:56,789

hi my name is sarah crawford from new

544

00:20:01,110 --> 00:19:59,600

york and my question is do you feel like

545

00:20:04,230 --> 00:20:01,120

being a woman has helped you in your

546

00:20:06,390 --> 00:20:04,240

field or hindered and why

547

00:20:08,710 --> 00:20:06,400

i don't feel like it has helped or

548

00:20:10,710 --> 00:20:08,720

hindered me to be a woman i don't think

549

00:20:12,950 --> 00:20:10,720

that um

550

00:20:16,070 --> 00:20:12,960

it is in my best interest to focus on

551
00:20:18,149 --> 00:20:16,080
things i can't control like my gender um

552
00:20:20,549 --> 00:20:18,159
i think it's more valuable to use that

553
00:20:21,990 --> 00:20:20,559
energy and that effort towards focusing

554
00:20:23,909 --> 00:20:22,000
on your

555
00:20:26,630 --> 00:20:23,919
capabilities and

556
00:20:28,950 --> 00:20:26,640
you know focusing on being the best

557
00:20:29,990 --> 00:20:28,960
candidate for the jobs that you want to

558
00:20:31,190 --> 00:20:30,000
pursue

559
00:20:33,510 --> 00:20:31,200
so

560
00:20:35,029 --> 00:20:33,520
i wouldn't i wouldn't focus on on gender

561
00:20:37,190 --> 00:20:35,039
or anything that you can't control

562
00:20:39,590 --> 00:20:37,200
definitely put the focus where it's

563
00:20:42,549 --> 00:20:39,600

going to benefit you the most and have

564

00:20:45,270 --> 00:20:42,559

the the greatest dividends um for your

565

00:20:46,470 --> 00:20:45,280

uh career development yeah that's a good

566

00:20:48,310 --> 00:20:46,480

question

567

00:20:54,870 --> 00:20:48,320

so we've got about five minutes left are

568

00:21:00,149 --> 00:20:56,549

you can step on up and not be nervous

569

00:21:04,470 --> 00:21:02,470

hi i'm morgan cameron i'm from georgia

570

00:21:06,390 --> 00:21:04,480

and i'm just wondering because you were

571

00:21:08,070 --> 00:21:06,400

um asking about

572

00:21:10,390 --> 00:21:08,080

having more researchers come in are

573

00:21:12,470 --> 00:21:10,400

there any specific fields of research

574

00:21:14,310 --> 00:21:12,480

that you would like to have more

575

00:21:16,549 --> 00:21:14,320

research it's a good question that's a

576
00:21:20,149 --> 00:21:16,559
very good question we have multiple

577
00:21:23,029 --> 00:21:20,159
disciplines that you know we um are

578
00:21:24,470 --> 00:21:23,039
creating the books in support of

579
00:21:25,590 --> 00:21:24,480
gosh

580
00:21:28,390 --> 00:21:25,600
you know

581
00:21:29,750 --> 00:21:28,400
i am working right now on the rodent

582
00:21:31,029 --> 00:21:29,760
science book

583
00:21:34,390 --> 00:21:31,039
we are in the process of writing the

584
00:21:36,070 --> 00:21:34,400
plant book technology demonstration

585
00:21:38,070 --> 00:21:36,080
the list goes on and they're all going

586
00:21:41,029 --> 00:21:38,080
to be available online which is a nice

587
00:21:42,789 --> 00:21:41,039
research resource for all

588
00:21:45,990 --> 00:21:42,799

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

589

00:21:48,549 --> 00:21:46,000

to limit what we can do on station um

590

00:21:49,830 --> 00:21:48,559

but uh that that's the focus right now

591

00:21:51,110 --> 00:21:49,840

those are the books that i'm currently

592

00:21:52,549 --> 00:21:51,120

working on

593

00:21:58,390 --> 00:21:52,559

so we got time for about one more good

594

00:22:02,470 --> 00:22:00,630

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

595

00:22:05,510 --> 00:22:02,480

wondering what your favorite research

596

00:22:06,950 --> 00:22:05,520

experiment currently on the iss is oh

597

00:22:07,990 --> 00:22:06,960

that's a good one i haven't thought

598

00:22:09,590 --> 00:22:08,000

about that

599

00:22:11,270 --> 00:22:09,600

i can tell you mine i think we've talked

600

00:22:12,710 --> 00:22:11,280

about it before mine's earth cam which

601
00:22:14,710 --> 00:22:12,720
is the one that's the sally ride earth

602
00:22:15,990 --> 00:22:14,720
cam she started this back on the shuttle

603
00:22:17,669 --> 00:22:16,000
uh and then put it on board the space

604
00:22:19,110 --> 00:22:17,679
station and it's really a chance for you

605
00:22:21,029 --> 00:22:19,120
guys and we're about to have one coming

606
00:22:22,870 --> 00:22:21,039
up i think july 9th there's another one

607
00:22:24,310 --> 00:22:22,880
uh that's going to be run where you know

608
00:22:26,870 --> 00:22:24,320
you get to pick what this camera points

609
00:22:28,470 --> 00:22:26,880
down at on earth and and takes photos of

610
00:22:30,549 --> 00:22:28,480
and some of the students

611
00:22:32,070 --> 00:22:30,559
uh photos have just been incredibly

612
00:22:33,510 --> 00:22:32,080
remarkable we've had something like 50

613
00:22:34,630 --> 00:22:33,520

000 students participate in this which

614

00:22:37,190 --> 00:22:34,640

is just

615

00:22:38,710 --> 00:22:37,200

uh awesome so that's that's mine that's

616

00:22:40,149 --> 00:22:38,720

that's probably up there i'm gonna have

617

00:22:41,830 --> 00:22:40,159

to think about that a little bit more i

618

00:22:43,430 --> 00:22:41,840

think there's uh more than one that i

619

00:22:44,630 --> 00:22:43,440

like so i haven't picked a few yeah it's

620

00:22:45,830 --> 00:22:44,640

hard to ask the science guys what their

621

00:22:47,510 --> 00:22:45,840

favorite experiment is because they're

622

00:22:48,789 --> 00:22:47,520

kind of over all of them

623

00:22:49,909 --> 00:22:48,799

so they can't really pick a favorite

624

00:22:51,350 --> 00:22:49,919

child but

625

00:22:52,950 --> 00:22:51,360

uh but there's a lot and if you guys

626
00:22:54,230 --> 00:22:52,960
ever want to read about them or take a

627
00:22:55,430 --> 00:22:54,240
look at some of the stuff amelia works

628
00:22:58,470 --> 00:22:55,440
on you know you can always go to the

629
00:23:00,149 --> 00:22:58,480
nasa website which is nasa.gov station

630
00:23:02,230 --> 00:23:00,159
that's the space station home page but

631
00:23:03,350 --> 00:23:02,240
if you look on the left hand side

632
00:23:04,470 --> 00:23:03,360
of the page whenever you go there

633
00:23:06,070 --> 00:23:04,480
there's a there's a button that says

634
00:23:07,190 --> 00:23:06,080
research and technology and if you click

635
00:23:10,230 --> 00:23:07,200
on that

636
00:23:12,870 --> 00:23:10,240
um it'll open up and you can pick it by

637
00:23:14,230 --> 00:23:12,880
expedition so we're on expedition 36 now

638
00:23:15,590 --> 00:23:14,240

you can pick it by discipline so you can

639

00:23:16,870 --> 00:23:15,600

take a look at all the different biology

640

00:23:18,390 --> 00:23:16,880

experiments all the different physics

641

00:23:19,669 --> 00:23:18,400

experiments something some things that

642

00:23:21,190 --> 00:23:19,679

some of us don't even understand down

643

00:23:22,470 --> 00:23:21,200

here on the ground but

644

00:23:23,750 --> 00:23:22,480

you could see the hundreds of

645

00:23:25,990 --> 00:23:23,760

experiments that this crew actually

646

00:23:27,990 --> 00:23:26,000

works on and and also the earth benefits

647

00:23:29,750 --> 00:23:28,000

in terms of you know not only what does

648

00:23:31,830 --> 00:23:29,760

this mean to spaceflight but also what

649

00:23:33,590 --> 00:23:31,840

does it mean right here on earth because

650

00:23:36,230 --> 00:23:33,600

sometimes there's impacts here on earth

651
00:23:37,830 --> 00:23:36,240
that we don't really even uh anticipate

652
00:23:40,630 --> 00:23:37,840
uh that actually improve life here on

653
00:23:42,310 --> 00:23:40,640
earth in in our lives here so all good

654
00:23:43,830 --> 00:23:42,320
questions we want to thank you guys for

655
00:23:45,029 --> 00:23:43,840
joining us here on nasa television and

656
00:23:46,630 --> 00:23:45,039
talking with amelia milley thank you

657
00:23:47,430 --> 00:23:46,640
very much for for taking time out of

658
00:23:49,269 --> 00:23:47,440
your day

659
00:23:51,590 --> 00:23:49,279
we hope you guys enjoyed it and we hope

660
00:23:52,789 --> 00:23:51,600
you enjoy your time down here as part of

661
00:23:55,190 --> 00:23:52,799
the wish