



1
00:00:04,950 --> 00:00:02,790
good afternoon thank you for joining us

2
00:00:06,630 --> 00:00:04,960
here at the johnson space center we're

3
00:00:09,910 --> 00:00:06,640
excited to be joined by the crew of

4
00:00:11,990 --> 00:00:09,920
expedition 5152 who will be launching to

5
00:00:13,830 --> 00:00:12,000
the international space station

6
00:00:16,630 --> 00:00:13,840
from the baikonur cosmodrome in

7
00:00:19,029 --> 00:00:16,640
kazakhstan in late march with us today

8
00:00:20,790 --> 00:00:19,039
we have first time flyer nasa astronaut

9
00:00:22,230 --> 00:00:20,800
jack fisher

10
00:00:25,349 --> 00:00:22,240
he will be the flight engineer for

11
00:00:27,109 --> 00:00:25,359
expeditions 51 and 52 and to his right

12
00:00:28,550 --> 00:00:27,119
we have veteran cosmonaut fyodor

13
00:00:30,070 --> 00:00:28,560

yurchikhin

14

00:00:32,229 --> 00:00:30,080

who will be the flight engineer for

15

00:00:34,630 --> 00:00:32,239

expedition 51 and the commander for

16

00:00:36,549 --> 00:00:34,640

expedition 52.

17

00:00:38,389 --> 00:00:36,559

jack can you tell us a little bit about

18

00:00:40,389 --> 00:00:38,399

your two expeditions and what you guys

19

00:00:42,950 --> 00:00:40,399

going to do when you're on board you bet

20

00:00:46,549 --> 00:00:42,960

and when i was trying to think of of

21

00:00:48,470 --> 00:00:46,559

what to say i i wanted to talk about an

22

00:00:50,470 --> 00:00:48,480

unofficial patch that that we came up

23

00:00:53,350 --> 00:00:50,480

with uh can't show it to you because

24

00:00:54,790 --> 00:00:53,360

it's unofficial but i can't talk to you

25

00:00:57,029 --> 00:00:54,800

about the two main

26
00:00:59,349 --> 00:00:57,039
uh things that we were trying to infuse

27
00:01:02,150 --> 00:00:59,359
within that patch it is

28
00:01:03,990 --> 00:01:02,160
it honors the apollo soyuz mission

29
00:01:06,310 --> 00:01:04,000
over 40 years ago

30
00:01:08,390 --> 00:01:06,320
when they started a

31
00:01:10,950 --> 00:01:08,400
legacy of cooperation international

32
00:01:13,429 --> 00:01:10,960
cooperation that has evolved into the

33
00:01:17,910 --> 00:01:13,439
international space station uh fyodor

34
00:01:20,710 --> 00:01:17,920
and i feel extremely lucky to be apart

35
00:01:23,510 --> 00:01:20,720
i think i'm dead aren't i

36
00:01:24,310 --> 00:01:23,520
i'll talk loud uh

37
00:01:26,390 --> 00:01:24,320
it's

38
00:01:27,990 --> 00:01:26,400

we're we're a part of that tradition and

39

00:01:30,310 --> 00:01:28,000

and we're extremely happy to be a part

40

00:01:34,870 --> 00:01:30,320

of that tradition the other thing is it

41

00:01:38,230 --> 00:01:34,880

has a saying on it uh adna commander is

42

00:01:41,910 --> 00:01:38,240

one team exploring together and that

43

00:01:44,310 --> 00:01:41,920

reminds us of the huge team of thousands

44

00:01:47,510 --> 00:01:44,320

of people across the globe that make

45

00:01:49,910 --> 00:01:47,520

space flight a reality and we are

46

00:01:52,069 --> 00:01:49,920

extremely grateful to be a part of that

47

00:01:54,069 --> 00:01:52,079

team and we hope today we can answer

48

00:01:55,990 --> 00:01:54,079

your questions and and give you kind of

49

00:01:57,990 --> 00:01:56,000

an understanding of what we'll be doing

50

00:02:00,630 --> 00:01:58,000

up there so that you're inspired enough

51
00:02:01,749 --> 00:02:00,640
to follow us and watch us explore

52
00:02:03,670 --> 00:02:01,759
together

53
00:02:05,749 --> 00:02:03,680
uh as far as

54
00:02:08,949 --> 00:02:05,759
what we'll be doing up there

55
00:02:12,630 --> 00:02:08,959
i will be joining uh peggy whitson doman

56
00:02:13,990 --> 00:02:12,640
pesquet and oleg novitskiy on orbit and

57
00:02:17,270 --> 00:02:14,000
then

58
00:02:18,790 --> 00:02:17,280
sergey ryazanskiy uh

59
00:02:20,229 --> 00:02:18,800
gosh i can't even think of comrade's

60
00:02:22,949 --> 00:02:20,239
first name

61
00:02:23,990 --> 00:02:22,959
her randy braz breznick comrades his

62
00:02:26,949 --> 00:02:24,000
nickname

63
00:02:30,150 --> 00:02:26,959

uh and palo nespoli will be uh joining

64

00:02:33,030 --> 00:02:30,160

us uh later in the summer

65

00:02:34,309 --> 00:02:33,040

as far as vehicle traffic we have two

66

00:02:35,990 --> 00:02:34,319

spacex

67

00:02:38,470 --> 00:02:36,000

vehicles that will hopefully be up there

68

00:02:40,949 --> 00:02:38,480

during that time uh one orbital vehicle

69

00:02:42,550 --> 00:02:40,959

that will be coming i'm particularly

70

00:02:43,670 --> 00:02:42,560

interested in that one because it has my

71

00:02:44,710 --> 00:02:43,680

underwear

72

00:02:45,990 --> 00:02:44,720

uh

73

00:02:47,350 --> 00:02:46,000

we have

74

00:02:48,790 --> 00:02:47,360

uh

75

00:02:52,229 --> 00:02:48,800

anywhere from

76

00:02:54,790 --> 00:02:52,239

nine to four or five evas on the usos

77

00:02:55,990 --> 00:02:54,800

side that still depends on the vehicle

78

00:02:58,229 --> 00:02:56,000

traffic

79

00:03:01,190 --> 00:02:58,239

and we also have one

80

00:03:03,589 --> 00:03:01,200

russian eva during that time frame

81

00:03:05,350 --> 00:03:03,599

to test out a new suit and fyodor will

82

00:03:07,350 --> 00:03:05,360

talk about that

83

00:03:09,110 --> 00:03:07,360

as far as science

84

00:03:11,750 --> 00:03:09,120

we'll probably get into more detailed

85

00:03:14,790 --> 00:03:11,760

questions about that later but just as a

86

00:03:16,710 --> 00:03:14,800

big overview we're at about 210

87

00:03:19,509 --> 00:03:16,720

experiments right now that'll probably

88

00:03:24,550 --> 00:03:19,519

go up to about 300 during the six months

89

00:03:26,949 --> 00:03:24,560

that we're on orbit uh you know the vast

90

00:03:29,110 --> 00:03:26,959

expanse of science and and experiments

91

00:03:29,910 --> 00:03:29,120

that we've done on on the space station

92

00:03:32,869 --> 00:03:29,920

over

93

00:03:35,350 --> 00:03:32,879

the its lifetime is is quite extensive

94

00:03:37,830 --> 00:03:35,360

but the basic uh

95

00:03:39,589 --> 00:03:37,840

four tenets are off the earth for the

96

00:03:42,390 --> 00:03:39,599

earth so we are trying to benefit

97

00:03:44,149 --> 00:03:42,400

humanity uh in studying medicine

98

00:03:47,270 --> 00:03:44,159

everything from medicines to new

99

00:03:50,149 --> 00:03:47,280

production techniques and the such we're

100

00:03:52,789 --> 00:03:50,159

also trying to create a thriving

101
00:03:54,470 --> 00:03:52,799
commercial market in low earth orbit

102
00:03:56,149 --> 00:03:54,480
both through science and through the

103
00:03:58,949 --> 00:03:56,159
vehicles

104
00:04:01,750 --> 00:03:58,959
we are trying to enable long duration

105
00:04:03,750 --> 00:04:01,760
space flight beyond low earth orbit so

106
00:04:05,990 --> 00:04:03,760
trying to figure out how we can send

107
00:04:08,550 --> 00:04:06,000
astronauts all the way to mars

108
00:04:11,190 --> 00:04:08,560
both propulsion technologies

109
00:04:12,869 --> 00:04:11,200
human physiology all of the things and

110
00:04:14,470 --> 00:04:12,879
and pieces that we need to make that

111
00:04:16,469 --> 00:04:14,480
happen and then

112
00:04:18,949 --> 00:04:16,479
uh probably the most important in this

113
00:04:21,830 --> 00:04:18,959

brings us back to the patch

114

00:04:23,670 --> 00:04:21,840

to enable and serve as a basis for that

115

00:04:25,350 --> 00:04:23,680

international cooperation

116

00:04:26,870 --> 00:04:25,360

we need to remember that the space

117

00:04:28,710 --> 00:04:26,880

station is

118

00:04:30,629 --> 00:04:28,720

arguably the best example of

119

00:04:31,990 --> 00:04:30,639

international cooperation in the history

120

00:04:34,390 --> 00:04:32,000

of mankind

121

00:04:36,870 --> 00:04:34,400

and uh we are proud to be a part of it

122

00:04:38,950 --> 00:04:36,880

and we look forward to your questions

123

00:04:41,030 --> 00:04:38,960

peter

124

00:04:43,670 --> 00:04:41,040

several lovely words

125

00:04:46,550 --> 00:04:43,680

first of all i am very proud and

126
00:04:53,189 --> 00:04:51,350
one of crew in my command yeah and

127
00:04:56,550 --> 00:04:53,199
since my youngest

128
00:04:58,790 --> 00:04:56,560
age i like it space program i like it

129
00:05:02,230 --> 00:04:58,800
everything about space and i remember

130
00:05:04,790 --> 00:05:02,240
very well because i was enough big boy

131
00:05:07,350 --> 00:05:04,800
when in 1973 the

132
00:05:11,029 --> 00:05:07,360
soviet union in the united states began

133
00:05:13,029 --> 00:05:11,039
this great program so you support the

134
00:05:16,550 --> 00:05:13,039
program apollo soyuz program from

135
00:05:20,150 --> 00:05:16,560
american and when jack told me then it's

136
00:05:21,270 --> 00:05:20,160
his real the one of greatest program in

137
00:05:23,670 --> 00:05:21,280
the world

138
00:05:26,950 --> 00:05:23,680

yeah thank you jack yes for what reason

139

00:05:28,550 --> 00:05:26,960

jack told we have unusual patch one team

140

00:05:30,310 --> 00:05:28,560

exploring together

141

00:05:33,749 --> 00:05:30,320

about our

142

00:05:37,590 --> 00:05:33,759

job we just a little cut our time now

143

00:05:40,790 --> 00:05:37,600

thank you our chiefs and we began

144

00:05:43,430 --> 00:05:40,800

our launch data now and of much it's

145

00:05:45,749 --> 00:05:43,440

possible several possibilities but we're

146

00:05:48,390 --> 00:05:45,759

ready for flight because we finished

147

00:05:49,749 --> 00:05:48,400

like backup crewmember and from russian

148

00:05:52,710 --> 00:05:49,759

side it's again

149

00:05:53,909 --> 00:05:52,720

one progress we will have and one very

150

00:05:55,430 --> 00:05:53,919

special

151
00:06:00,950 --> 00:05:55,440

i hope

152
00:06:03,029 --> 00:06:00,960

ryazanskiy do it this eba because we

153
00:06:05,029 --> 00:06:03,039

should test it the

154
00:06:07,430 --> 00:06:05,039

its new generation

155
00:06:08,629 --> 00:06:07,440

space suits russian spacesuits or lan

156
00:06:10,710 --> 00:06:08,639

mkis

157
00:06:13,189 --> 00:06:10,720

and i hope we will have this very

158
00:06:16,150 --> 00:06:13,199

interesting very explore

159
00:06:19,110 --> 00:06:16,160

eva in russian segment and of course we

160
00:06:21,670 --> 00:06:19,120

have a lot of medicine tests geophysical

161
00:06:25,029 --> 00:06:21,680

astrophysical et cetera et cetera

162
00:06:28,710 --> 00:06:26,629

well we'll now take some questions for

163
00:06:30,870 --> 00:06:28,720

the crew we'll start with the media here

164

00:06:32,390 --> 00:06:30,880

at johnson space center

165

00:06:34,390 --> 00:06:32,400

then we'll take questions from other

166

00:06:35,909 --> 00:06:34,400

centers reporters on the phone bridge

167

00:06:36,870 --> 00:06:35,919

and then we'll take some social media

168

00:06:38,230 --> 00:06:36,880

questions

169

00:06:40,390 --> 00:06:38,240

if you'd like to ask a question on

170

00:06:42,309 --> 00:06:40,400

social media please use the hashtag

171

00:06:44,230 --> 00:06:42,319

asknasa

172

00:06:46,870 --> 00:06:44,240

for those on the phone bridge

173

00:06:49,589 --> 00:06:46,880

please press star one if you have a

174

00:06:51,589 --> 00:06:49,599

question and star 2 to withdraw your

175

00:06:53,029 --> 00:06:51,599

question if it's already been answered

176
00:06:55,350 --> 00:06:53,039
in there mark

177
00:06:58,070 --> 00:06:55,360
oh thank you uh mark caro for aviation

178
00:06:59,990 --> 00:06:58,080
week and i think this is

179
00:07:03,830 --> 00:07:00,000
for jack

180
00:07:06,150 --> 00:07:03,840
what sorts of activities operations

181
00:07:08,629 --> 00:07:06,160
to further commercial crew

182
00:07:09,670 --> 00:07:08,639
do you anticipate or are you prepared to

183
00:07:11,430 --> 00:07:09,680
do if

184
00:07:12,870 --> 00:07:11,440
i know things have to arrive at the

185
00:07:15,430 --> 00:07:12,880
right time so

186
00:07:16,710 --> 00:07:15,440
you can participate but as you as you go

187
00:07:17,990 --> 00:07:16,720
into this

188
00:07:19,189 --> 00:07:18,000

at this point

189

00:07:21,909 --> 00:07:19,199

what do you

190

00:07:23,830 --> 00:07:21,919

foresee or even hope you'll get to do to

191

00:07:26,150 --> 00:07:23,840

further that objective well uh

192

00:07:28,070 --> 00:07:26,160

originally during our increment before

193

00:07:31,270 --> 00:07:28,080

we moved you know we were supposed to

194

00:07:32,870 --> 00:07:31,280

have the demo mission for spacex and

195

00:07:33,830 --> 00:07:32,880

boeing obviously those have slipped a

196

00:07:36,150 --> 00:07:33,840

little bit

197

00:07:36,870 --> 00:07:36,160

uh and we've slipped the other direction

198

00:07:38,870 --> 00:07:36,880

so

199

00:07:42,390 --> 00:07:38,880

unfortunately we're completely out of

200

00:07:44,790 --> 00:07:42,400

the time frame now but we've been uh on

201
00:07:47,670 --> 00:07:44,800
the space station uh involved in

202
00:07:50,070 --> 00:07:47,680
activities for quite some time now to

203
00:07:53,749 --> 00:07:50,080
move the docking ports around run all

204
00:07:55,670 --> 00:07:53,759
sorts of new lines uh new equipment

205
00:07:57,029 --> 00:07:55,680
at those docking ports so that we can

206
00:07:59,909 --> 00:07:57,039
that we're ready

207
00:08:02,710 --> 00:07:59,919
for the new vehicles we will be doing

208
00:08:05,189 --> 00:08:02,720
another one of the in the planned evas

209
00:08:07,350 --> 00:08:05,199
that we may have in our increment is to

210
00:08:13,189 --> 00:08:07,360
move

211
00:08:14,710 --> 00:08:13,199
to shield up it's actually a fun eva

212
00:08:17,350 --> 00:08:14,720
they they have their own little patch

213
00:08:19,830 --> 00:08:17,360

it's like shields up star trek kind of

214

00:08:22,550 --> 00:08:19,840

reference and that's pretty cool but

215

00:08:23,670 --> 00:08:22,560

we'll be putting shields out there

216

00:08:25,909 --> 00:08:23,680

we have

217

00:08:27,990 --> 00:08:25,919

new antennas i mean we've been we've

218

00:08:29,670 --> 00:08:28,000

been working on this for quite some time

219

00:08:32,230 --> 00:08:29,680

so actually the space station is in

220

00:08:33,670 --> 00:08:32,240

pretty good shape uh it's it's really a

221

00:08:35,430 --> 00:08:33,680

matter of getting those vehicles up

222

00:08:37,509 --> 00:08:35,440

there

223

00:08:40,230 --> 00:08:37,519

other than that other than the actual

224

00:08:42,389 --> 00:08:40,240

hardware and physical changes that we've

225

00:08:44,310 --> 00:08:42,399

made to the space station we don't have

226

00:08:45,750 --> 00:08:44,320

a lot to do until they actually get up

227

00:08:49,750 --> 00:08:45,760

there

228

00:08:53,190 --> 00:08:51,590

yes hi robert perlman with

229

00:08:55,350 --> 00:08:53,200

collectspace.com

230

00:08:58,070 --> 00:08:55,360

you mentioned the the change in schedule

231

00:09:00,949 --> 00:08:58,080

to uh crew schedules you moving up um

232

00:09:03,030 --> 00:09:00,959

how did the the change of moving up uh

233

00:09:05,509 --> 00:09:03,040

to a sooner launch date reducing to a

234

00:09:07,509 --> 00:09:05,519

size of a two-person crew

235

00:09:10,790 --> 00:09:07,519

affect your training how's it been going

236

00:09:13,110 --> 00:09:10,800

and as an add-on to that just

237

00:09:16,310 --> 00:09:13,120

flying on the soyuz will it be center

238

00:09:18,550 --> 00:09:16,320

and left or left and right seats how how

239

00:09:20,710 --> 00:09:18,560

do you do a two-person crew well the

240

00:09:22,310 --> 00:09:20,720

boss is always in the center so he'll be

241

00:09:23,350 --> 00:09:22,320

in the center and you got to be on the

242

00:09:25,110 --> 00:09:23,360

left to

243

00:09:28,310 --> 00:09:25,120

reach most the buttons so i'll be on the

244

00:09:30,710 --> 00:09:28,320

left um we uh we're going to be carrying

245

00:09:32,470 --> 00:09:30,720

cargo uh on the right but we're going to

246

00:09:33,910 --> 00:09:32,480

name the cargo paulo

247

00:09:35,269 --> 00:09:33,920

after our old

248

00:09:37,110 --> 00:09:35,279

crewmate maybe print out a little

249

00:09:37,910 --> 00:09:37,120

picture of his head and put it on there

250

00:09:41,750 --> 00:09:37,920

um

251

00:09:43,910 --> 00:09:41,760

as far as our our schedule uh obviously

252

00:09:45,670 --> 00:09:43,920

uh fyodor has flown this will be his

253

00:09:48,870 --> 00:09:45,680

fifth flight he doesn't need a whole lot

254

00:09:49,750 --> 00:09:48,880

of training it mostly falls on me

255

00:09:53,269 --> 00:09:49,760

and

256

00:09:56,870 --> 00:09:53,279

the the complexities of moving the crews

257

00:09:57,750 --> 00:09:56,880

around uh are because

258

00:10:00,710 --> 00:09:57,760

not

259

00:10:04,310 --> 00:10:00,720

everybody can't be experts at everything

260

00:10:06,790 --> 00:10:04,320

so uh we share the workload and paulo

261

00:10:09,030 --> 00:10:06,800

nepoli who was in our crew was a

262

00:10:12,470 --> 00:10:09,040

specialist in the japanese segment and

263

00:10:14,870 --> 00:10:12,480

the european segment to offload those

264

00:10:16,949 --> 00:10:14,880

from me obviously fyodor has always been

265

00:10:19,030 --> 00:10:16,959

the specialist of the russian segment

266

00:10:22,069 --> 00:10:19,040

and the soyuz

267

00:10:24,949 --> 00:10:22,079

now i need to pick those up so our

268

00:10:25,910 --> 00:10:24,959

japanese partner our european partners

269

00:10:29,030 --> 00:10:25,920

have

270

00:10:31,269 --> 00:10:29,040

created condensed programs for me uh and

271

00:10:33,269 --> 00:10:31,279

they've we've just kind of shoehorned it

272

00:10:35,670 --> 00:10:33,279

all in to the time that we have

273

00:10:38,790 --> 00:10:35,680

available

274

00:10:40,230 --> 00:10:38,800

it it it hasn't been too horrible

275

00:10:42,870 --> 00:10:40,240

and i think we'll be

276

00:10:44,790 --> 00:10:42,880

well i know we'll be ready in time

277

00:10:48,230 --> 00:10:44,800

for all the requirements that we need to

278

00:10:48,240 --> 00:10:52,630

any other questions yes sir

279

00:10:56,230 --> 00:10:54,710

jim oberge with soaringhawk productions

280

00:10:58,150 --> 00:10:56,240

uh to follow up with the question which

281

00:11:00,389 --> 00:10:58,160

i had which robert anticipated as it

282

00:11:01,750 --> 00:11:00,399

usually does

283

00:11:03,910 --> 00:11:01,760

with commander

284

00:11:06,310 --> 00:11:03,920

you're going into a new operations mode

285

00:11:08,790 --> 00:11:06,320

with two russians instead of three

286

00:11:09,910 --> 00:11:08,800

how much more work is that for you and

287

00:11:16,310 --> 00:11:09,920

how will

288

00:11:20,310 --> 00:11:17,670

okay

289

00:11:23,430 --> 00:11:20,320

because it's now two not three

290

00:11:25,829 --> 00:11:23,440

we have one third job more yeah one

291

00:11:29,750 --> 00:11:25,839

thirty one six four one crew member one

292

00:11:31,990 --> 00:11:29,760

six four another one

293

00:11:34,710 --> 00:11:32,000

it should be the same yeah but but the

294

00:11:36,949 --> 00:11:34,720

question is very good yes because it's

295

00:11:38,630 --> 00:11:36,959

but you know the

296

00:11:42,870 --> 00:11:38,640

space program it's very expensive

297

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

program yes and the usual our

298

00:11:48,949 --> 00:11:45,920

week it's five days only

299

00:11:51,030 --> 00:11:48,959

the work days and we have two

300

00:11:53,910 --> 00:11:51,040

relaxing days it's usual sunday and

301
00:11:56,389 --> 00:11:53,920
saturday for this reason sunday saturday

302
00:11:58,949 --> 00:11:56,399
is the again the work day for us because

303
00:12:00,949 --> 00:11:58,959
we have a lot of task lists and we work

304
00:12:02,470 --> 00:12:00,959
with task leads it was in my last

305
00:12:05,590 --> 00:12:02,480
expedition it was

306
00:12:06,949 --> 00:12:05,600
in my whole expedition but now maybe

307
00:12:08,550 --> 00:12:06,959
it's

308
00:12:14,389 --> 00:12:08,560
more

309
00:12:16,629 --> 00:12:14,399
like each russian cosmonaut too and it's

310
00:12:22,310 --> 00:12:16,639
the same it's doing the american

311
00:12:27,910 --> 00:12:24,710
it's the task list yes stars list it's

312
00:12:30,629 --> 00:12:27,920
the job what ground prefer to do it but

313
00:12:31,910 --> 00:12:30,639

it's not on schedule because official we

314

00:12:33,829 --> 00:12:31,920

have five

315

00:12:37,030 --> 00:12:33,839

work days yeah

316

00:12:41,430 --> 00:12:37,040

so but i may use my own time

317

00:12:46,870 --> 00:12:43,110

what would you like to do on your own

318

00:12:52,550 --> 00:12:49,509

it's not enough

319

00:12:54,710 --> 00:12:52,560

time on space because

320

00:12:57,509 --> 00:12:54,720

all my flights

321

00:13:00,870 --> 00:12:57,519

the last day

322

00:13:03,190 --> 00:13:00,880

last expedition days i think oh my god i

323

00:13:05,750 --> 00:13:03,200

forgot to do it this one this one this

324

00:13:08,310 --> 00:13:05,760

one give me one month more maybe i

325

00:13:11,030 --> 00:13:08,320

finished all my jobs years but the time

326

00:13:12,470 --> 00:13:11,040

is time time for another crew member but

327

00:13:15,509 --> 00:13:12,480

usually in

328

00:13:18,069 --> 00:13:15,519

if it's free free time my time yes of

329

00:13:21,750 --> 00:13:18,079

course it's mail call ground call my

330

00:13:23,910 --> 00:13:21,760

friends or call the family sent mails

331

00:13:26,870 --> 00:13:23,920

take a picture because um

332

00:13:30,069 --> 00:13:26,880

it's number one for me i want to take a

333

00:13:30,949 --> 00:13:30,079

picture the life it's very changeable

334

00:13:33,590 --> 00:13:30,959

and

335

00:13:35,350 --> 00:13:33,600

if it's possible i would like to each

336

00:13:38,629 --> 00:13:35,360

human from

337

00:13:41,110 --> 00:13:38,639

earth planet to check how beautiful

338

00:13:42,949 --> 00:13:41,120

earth planet is from space

339

00:13:46,870 --> 00:13:42,959

and

340

00:13:49,269 --> 00:13:46,880

it's the time for a task of for task

341

00:13:51,670 --> 00:13:49,279

if you ask me what do you do

342

00:13:53,910 --> 00:13:51,680

task i prefer of course the first it's

343

00:13:56,710 --> 00:13:53,920

technical like new technology for

344

00:13:58,470 --> 00:13:56,720

example uh russian experiment it's a

345

00:13:59,910 --> 00:13:58,480

colonoscopy crystal it's very

346

00:14:02,870 --> 00:13:59,920

interesting

347

00:14:05,910 --> 00:14:02,880

from new technology experiment

348

00:14:08,710 --> 00:14:05,920

i'm not sure how we will use now the

349

00:14:11,509 --> 00:14:08,720

plasmini crystal it's one of

350

00:14:14,069 --> 00:14:11,519

the greatest experience in space station

351

00:14:17,189 --> 00:14:14,079

because it's located now

352

00:14:20,629 --> 00:14:17,199

in columbus in european

353

00:14:24,710 --> 00:14:22,629

had had enough training with this

354

00:14:27,509 --> 00:14:24,720

equipment too but now

355

00:14:29,990 --> 00:14:27,519

it should schedule by

356

00:14:32,470 --> 00:14:30,000

issa's mcc

357

00:14:34,949 --> 00:14:32,480

i like it astrophysical i like it

358

00:14:37,750 --> 00:14:34,959

geophysical of course a lot of

359

00:14:39,670 --> 00:14:37,760

ecological programs and i working with

360

00:14:41,590 --> 00:14:39,680

ecological programs

361

00:14:43,350 --> 00:14:41,600

it's many many many

362

00:14:45,590 --> 00:14:43,360

unfortunately maybe

363

00:14:48,069 --> 00:14:45,600

medicine it's not prime for me but i

364

00:14:49,990 --> 00:14:48,079

understand very well it's important for

365

00:14:52,870 --> 00:14:50,000

ground and

366

00:15:06,150 --> 00:14:52,880

not maybe this big smile but i continued

367

00:15:10,629 --> 00:15:08,550

and he coming for long during ancient

368

00:15:14,470 --> 00:15:10,639

flight the first

369

00:15:17,030 --> 00:15:14,480

guy first man who flown when he will be

370

00:15:20,150 --> 00:15:17,040

exactly 60 60 years

371

00:15:28,389 --> 00:15:20,160

yeah it's it should be the record for

372

00:15:31,269 --> 00:15:29,990

i know you're a bit of a tinkerer what

373

00:15:35,269 --> 00:15:31,279

are you looking forward to doing up

374

00:15:38,310 --> 00:15:35,279

there oh well i i i i grew up

375

00:15:40,710 --> 00:15:38,320

a construction kid my my family and

376

00:15:42,710 --> 00:15:40,720

has been in construction for for uh five

377

00:15:45,590 --> 00:15:42,720

generations now so

378

00:15:47,509 --> 00:15:45,600

building is is my thing and and i look

379

00:15:49,269 --> 00:15:47,519

forward to uh

380

00:15:50,310 --> 00:15:49,279

you know almost every activity up there

381

00:15:52,150 --> 00:15:50,320

sounds

382

00:15:53,189 --> 00:15:52,160

interesting you know we mentioned av

383

00:15:54,790 --> 00:15:53,199

week it's

384

00:15:56,389 --> 00:15:54,800

i can go cover to cover because

385

00:15:59,110 --> 00:15:56,399

everything sounds interesting that's the

386

00:16:01,430 --> 00:15:59,120

space station for me you know it

387

00:16:04,550 --> 00:16:01,440

fixing the toilet sounds exciting to me

388

00:16:06,230 --> 00:16:04,560

it's it's a space toilet you're in space

389

00:16:08,310 --> 00:16:06,240

and if you look over the corner you can

390

00:16:10,550 --> 00:16:08,320

see the earth i mean that's just cool

391

00:16:12,949 --> 00:16:10,560

i'm i'm looking forward to do doing all

392

00:16:15,189 --> 00:16:12,959

these tasks we mentioned the science uh

393

00:16:18,069 --> 00:16:15,199

the sciences is

394

00:16:20,310 --> 00:16:18,079

phenomenal and i look forward to

395

00:16:22,069 --> 00:16:20,320

having the opportunity to be a part of

396

00:16:24,389 --> 00:16:22,079

something bigger and to contribute

397

00:16:27,509 --> 00:16:24,399

something back for society

398

00:16:29,030 --> 00:16:27,519

i know that the payload folks

399

00:16:30,870 --> 00:16:29,040

have all the different categories

400

00:16:33,749 --> 00:16:30,880

actually made an acronym are you ready

401
00:16:35,269 --> 00:16:33,759
for this it's hottie it's after my wife

402
00:16:36,629 --> 00:16:35,279
i didn't spell it quite right but you

403
00:16:38,389 --> 00:16:36,639
have to work with me because it's a cool

404
00:16:41,110 --> 00:16:38,399
acronym you have

405
00:16:43,670 --> 00:16:41,120
human health so all of the things that

406
00:16:46,629 --> 00:16:43,680
we're doing to help humans on earth from

407
00:16:47,990 --> 00:16:46,639
from helping with health technology bone

408
00:16:51,110 --> 00:16:48,000
loss

409
00:16:53,030 --> 00:16:51,120
immunizations and and and analyzing

410
00:16:55,590 --> 00:16:53,040
different uh ways that we can

411
00:16:57,110 --> 00:16:55,600
crystallize proteins uh you have earth

412
00:16:59,590 --> 00:16:57,120
observations

413
00:17:02,550 --> 00:16:59,600

and disaster prevention uh we actually

414

00:17:05,110 --> 00:17:02,560

cover with the space station orbit 80

415

00:17:07,110 --> 00:17:05,120

percent of the land mass uh and ninety

416

00:17:10,470 --> 00:17:07,120

percent of the population on on planet

417

00:17:12,710 --> 00:17:10,480

earth so it gives us a unique ability to

418

00:17:15,909 --> 00:17:12,720

every single 90 minutes go around the

419

00:17:18,470 --> 00:17:15,919

earth and and help uh from a unique

420

00:17:19,510 --> 00:17:18,480

orbit to give those

421

00:17:22,069 --> 00:17:19,520

give those

422

00:17:23,990 --> 00:17:22,079

observations back to the earth uh

423

00:17:28,150 --> 00:17:24,000

innovative technology man there's

424

00:17:33,990 --> 00:17:31,510

we mentioned the combustion experiments

425

00:17:35,990 --> 00:17:34,000

where because there's no convection or

426

00:17:39,110 --> 00:17:36,000

sedimentation on on

427

00:17:42,470 --> 00:17:39,120

on orbit with microgravity

428

00:17:45,510 --> 00:17:42,480

the flames actually burn outward so they

429

00:17:47,990 --> 00:17:45,520

they have unique characteristics uh we

430

00:17:49,830 --> 00:17:48,000

have a experiment called cool flame uh

431

00:17:51,510 --> 00:17:49,840

that that looks at that and we're

432

00:17:55,510 --> 00:17:51,520

looking at different ways to have more

433

00:17:59,590 --> 00:17:57,510

there's just a lot of

434

00:18:02,549 --> 00:17:59,600

applications for that we're also looking

435

00:18:05,909 --> 00:18:02,559

at at technologies that can help us

436

00:18:08,310 --> 00:18:05,919

as we explore deeper into the cosmos we

437

00:18:11,350 --> 00:18:08,320

have the ability because of that lack of

438

00:18:14,549 --> 00:18:11,360

convection and sedimentation to create

439

00:18:16,870 --> 00:18:14,559

alloys that are much stronger much

440

00:18:19,190 --> 00:18:16,880

lighter and have have much greater

441

00:18:20,870 --> 00:18:19,200

characteristics for

442

00:18:22,310 --> 00:18:20,880

any application

443

00:18:23,750 --> 00:18:22,320

we also

444

00:18:26,390 --> 00:18:23,760

are looking at

445

00:18:29,830 --> 00:18:26,400

different technologies for

446

00:18:32,390 --> 00:18:29,840

workout gear we have a thing called med2

447

00:18:33,990 --> 00:18:32,400

which is our new uh

448

00:18:35,110 --> 00:18:34,000

workout device

449

00:18:37,190 --> 00:18:35,120

because we're not going to have quite as

450

00:18:38,310 --> 00:18:37,200

much room as the space station as we go

451
00:18:41,190 --> 00:18:38,320
to mars

452
00:18:45,510 --> 00:18:41,200
so i look forward to working with that

453
00:18:47,270 --> 00:18:45,520
the the economic development is is huge

454
00:18:48,230 --> 00:18:47,280
obviously we mentioned uh commercial

455
00:18:51,190 --> 00:18:48,240
crew

456
00:18:54,630 --> 00:18:51,200
but that's not the the end of it we have

457
00:18:57,830 --> 00:18:54,640
an international laboratory uh that is

458
00:19:01,430 --> 00:18:57,840
actually getting uh science experiments

459
00:19:04,870 --> 00:19:01,440
now nanoracks is a great example of a

460
00:19:06,630 --> 00:19:04,880
business that nasa is a customer of on

461
00:19:08,630 --> 00:19:06,640
the space station so we have this great

462
00:19:10,470 --> 00:19:08,640
platform all the power all the data all

463
00:19:12,710 --> 00:19:10,480

the things you need

464

00:19:13,990 --> 00:19:12,720
to investigate in this very unique

465

00:19:15,830 --> 00:19:14,000
environment

466

00:19:17,669 --> 00:19:15,840
and all you got to do is is contact a

467

00:19:19,830 --> 00:19:17,679
commercial provider and and get your

468

00:19:22,710 --> 00:19:19,840
stuff up there so

469

00:19:25,110 --> 00:19:22,720
that's exciting and then

470

00:19:27,750 --> 00:19:25,120
you know probably the most important uh

471

00:19:29,190 --> 00:19:27,760
to me personally is the inspiration and

472

00:19:32,870 --> 00:19:29,200
the education

473

00:19:35,990 --> 00:19:32,880
so education is where it all starts

474

00:19:38,230 --> 00:19:36,000
i remember when i was applying to the

475

00:19:41,909 --> 00:19:38,240
astronaut corps i was at edwards air

476
00:19:42,950 --> 00:19:41,919
force base i was flying f22s i was in a

477
00:19:45,510 --> 00:19:42,960
room with

478
00:19:47,110 --> 00:19:45,520
50 engineers all my control room

479
00:19:48,230 --> 00:19:47,120
and they're like hey you know we hear

480
00:19:49,430 --> 00:19:48,240
you're you're applying i'm like

481
00:19:51,350 --> 00:19:49,440
absolutely

482
00:19:53,270 --> 00:19:51,360
and they're like oh we're all we're very

483
00:19:55,590 --> 00:19:53,280
excited about it i'm like well just out

484
00:19:57,510 --> 00:19:55,600
of curiosity how many of you guys

485
00:19:58,789 --> 00:19:57,520
you know are interested in space they

486
00:20:00,789 --> 00:19:58,799
all raise their hand

487
00:20:03,350 --> 00:20:00,799
i'm like well you know what what

488
00:20:06,630 --> 00:20:03,360

inspired you to uh

489

00:20:09,350 --> 00:20:06,640

to get into this business and one guy

490

00:20:11,270 --> 00:20:09,360

said well the the moon landing for me

491

00:20:13,669 --> 00:20:11,280

i said how many of you guys were

492

00:20:15,510 --> 00:20:13,679

inspired to become engineers because of

493

00:20:16,630 --> 00:20:15,520

the space program the entire room raised

494

00:20:17,669 --> 00:20:16,640

their hands

495

00:20:18,710 --> 00:20:17,679

so

496

00:20:27,669 --> 00:20:18,720

the

497

00:20:29,909 --> 00:20:27,679

numbers but that leveraged effect of

498

00:20:31,029 --> 00:20:29,919

inspiration is something you just can't

499

00:20:33,190 --> 00:20:31,039

measure

500

00:20:35,750 --> 00:20:33,200

and that's the most important thing that

501
00:20:38,390 --> 00:20:35,760
we bring to the fight this is an

502
00:20:41,190 --> 00:20:38,400
exciting time for us

503
00:20:44,230 --> 00:20:41,200
probably the the most exciting time in

504
00:20:46,630 --> 00:20:44,240
in my lifetime because we're about to

505
00:20:47,510 --> 00:20:46,640
make some big steps we have commercial

506
00:20:50,070 --> 00:20:47,520
crew

507
00:20:52,710 --> 00:20:50,080
just exploding we have a commercial

508
00:20:53,830 --> 00:20:52,720
enterprise exploding

509
00:20:56,710 --> 00:20:53,840
and

510
00:20:58,789 --> 00:20:56,720
we have huge rockets all the countries

511
00:21:01,510 --> 00:20:58,799
have signed on to continue the space

512
00:21:04,070 --> 00:21:01,520
station to 2024

513
00:21:07,029 --> 00:21:04,080

and and we're looking further and deeper

514

00:21:07,909 --> 00:21:07,039

and it's exciting so uh

515

00:21:09,669 --> 00:21:07,919

all

516

00:21:12,230 --> 00:21:09,679

what am i excited about

517

00:21:14,950 --> 00:21:12,240

what am i not excited about

518

00:21:16,310 --> 00:21:14,960

the education part we actually have some

519

00:21:18,870 --> 00:21:16,320

groups in the audience we have some of

520

00:21:20,789 --> 00:21:18,880

our co-ops and interns as well as some

521

00:21:22,630 --> 00:21:20,799

of the trainers so prepare yourself for

522

00:21:24,630 --> 00:21:22,640

some hard questions

523

00:21:26,470 --> 00:21:24,640

we just had an exam this morning and we

524

00:21:27,830 --> 00:21:26,480

don't need any more questions from our

525

00:21:29,510 --> 00:21:27,840

trainers

526

00:21:34,470 --> 00:21:29,520

so you young folks this is a great

527

00:21:38,310 --> 00:21:35,590

yes sir

528

00:21:41,270 --> 00:21:38,320

um i guess for mr fisher he said stand

529

00:21:45,350 --> 00:21:43,590

so you said you're married i'm curious

530

00:21:46,549 --> 00:21:45,360

it's kind of what it goes what goes on

531

00:21:49,190 --> 00:21:46,559

when you tell your wife you're going to

532

00:21:51,190 --> 00:21:49,200

space for six months well it happens

533

00:21:55,110 --> 00:21:51,200

she's sitting over there she's the hot

534

00:21:57,510 --> 00:21:55,909

you know

535

00:21:59,510 --> 00:21:57,520

my wife and i'm not going to look at her

536

00:22:01,669 --> 00:21:59,520

i'll start leaking but she

537

00:22:04,149 --> 00:22:01,679

she has been an air force wife for a

538

00:22:06,789 --> 00:22:04,159

long time she's used to

539

00:22:09,110 --> 00:22:06,799

me being gone me being deployed

540

00:22:13,029 --> 00:22:10,950

a military wife

541

00:22:15,110 --> 00:22:13,039

or spouse

542

00:22:17,909 --> 00:22:15,120

takes something special

543

00:22:21,510 --> 00:22:17,919

they have to be very strong

544

00:22:23,430 --> 00:22:21,520

they have to be very independent and

545

00:22:25,350 --> 00:22:23,440

we call it the little red hen syndrome

546

00:22:27,590 --> 00:22:25,360

in our house you know i'm going to do it

547

00:22:29,430 --> 00:22:27,600

myself

548

00:22:31,110 --> 00:22:29,440

they just have to be

549

00:22:33,029 --> 00:22:31,120

incredibly strong

550

00:22:34,390 --> 00:22:33,039

she's been married to that for a long

551
00:22:35,830 --> 00:22:34,400
time so

552
00:22:37,430 --> 00:22:35,840
i don't think there was really any

553
00:22:38,950 --> 00:22:37,440
difference whether i'm going getting

554
00:22:42,070 --> 00:22:38,960
shot at or

555
00:22:44,950 --> 00:22:42,080
getting shot off a rocket uh

556
00:22:47,430 --> 00:22:44,960
you can you can ask her but i i think uh

557
00:22:50,950 --> 00:22:47,440
it's about the same our relationship

558
00:22:52,310 --> 00:22:50,960
hasn't really changed that much uh

559
00:22:55,430 --> 00:22:52,320
it it's just

560
00:22:58,950 --> 00:22:55,440
i'm still chasing a dream and i couldn't

561
00:23:01,430 --> 00:22:58,960
do it without her support uh so

562
00:23:03,830 --> 00:23:01,440
no changes maybe i'll continue this yes

563
00:23:07,830 --> 00:23:03,840

if it's possible each

564

00:23:10,710 --> 00:23:07,840

cosmonaut astronaut wife she is not

565

00:23:12,789 --> 00:23:10,720

happy with our profession it's exactly i

566

00:23:17,110 --> 00:23:12,799

may tell you because he is

567

00:23:22,710 --> 00:23:19,350

clayton unders and wives we flown

568

00:23:25,430 --> 00:23:22,720

together in expedition 15 but each our

569

00:23:29,190 --> 00:23:25,440

wife and we are very lucky and happy

570

00:23:32,390 --> 00:23:29,200

it's like small chinese wall

571

00:23:35,669 --> 00:23:32,400

and we in family when we sit in family

572

00:23:39,110 --> 00:23:35,679

we know that our wife it's like small

573

00:23:41,750 --> 00:23:39,120

chinese wall for our family she saved

574

00:23:42,950 --> 00:23:41,760

that so our family soul

575

00:23:45,110 --> 00:23:42,960

these

576

00:23:47,830 --> 00:23:45,120

our wives save our

577

00:23:48,830 --> 00:23:47,840

daughters we have two daughters yeah our

578

00:23:50,390 --> 00:23:48,840

child

579

00:23:52,310 --> 00:23:50,400

and

580

00:23:55,110 --> 00:23:52,320

we are maybe

581

00:23:55,909 --> 00:23:55,120

very happy when we return home

582

00:23:59,269 --> 00:23:55,919

and

583

00:24:00,710 --> 00:23:59,279

check the home exactly the same looks

584

00:24:02,870 --> 00:24:00,720

like the same

585

00:24:05,269 --> 00:24:02,880

everything on the place i like it to

586

00:24:07,110 --> 00:24:05,279

check the rooms and my wife

587

00:24:09,269 --> 00:24:07,120

it's like guide for me

588

00:24:11,029 --> 00:24:09,279

check it's

589

00:24:13,990 --> 00:24:11,039

yours daughter's room she's just a

590

00:24:16,070 --> 00:24:14,000

little girl for half a year

591

00:24:18,710 --> 00:24:16,080

it's like this so

592

00:24:21,190 --> 00:24:18,720

we are happy we have great wives

593

00:24:21,990 --> 00:24:21,200

absolutely and we're both lucky we we

594

00:24:24,470 --> 00:24:22,000

have

595

00:24:25,750 --> 00:24:24,480

women that are much better looking at us

596

00:24:34,390 --> 00:24:25,760

and

597

00:24:35,590 --> 00:24:34,400

because we return just a little younger

598

00:24:38,870 --> 00:24:35,600

there you go

599

00:24:42,789 --> 00:24:41,590

any other questions

600

00:24:46,310 --> 00:24:42,799

mark

601
00:24:48,310 --> 00:24:46,320
aviation week again can you

602
00:24:50,470 --> 00:24:48,320
kind of summarize where you are on your

603
00:24:51,430 --> 00:24:50,480
mission training what's left for you and

604
00:24:52,710 --> 00:24:51,440
where

605
00:24:56,070 --> 00:24:52,720
to get ready

606
00:24:59,669 --> 00:24:56,080
yeah we have uh not a whole lot so when

607
00:25:01,909 --> 00:24:59,679
we are the backup crew we're technically

608
00:25:05,029 --> 00:25:01,919
ready to fly uh

609
00:25:07,750 --> 00:25:05,039
the biggest difference is on my side

610
00:25:09,669 --> 00:25:07,760
because i need to get those that delta

611
00:25:12,630 --> 00:25:09,679
training for the japanese segment and

612
00:25:17,269 --> 00:25:12,640
the european segment um and then we'll

613
00:25:21,110 --> 00:25:17,279

go back and just do our our standard uh

614

00:25:21,909 --> 00:25:21,120

exam flow in russia uh in star city

615

00:25:23,190 --> 00:25:21,919

uh

616

00:25:23,909 --> 00:25:23,200

and then fly

617

00:25:26,950 --> 00:25:23,919

so

618

00:25:28,950 --> 00:25:26,960

there's not much left uh the only big

619

00:25:32,310 --> 00:25:28,960

things were the japanese and european

620

00:25:34,630 --> 00:25:32,320

segment also uh we haven't had a chance

621

00:25:37,750 --> 00:25:34,640

normally we train with the crews that

622

00:25:40,230 --> 00:25:37,760

fly before us and after us we never had

623

00:25:43,750 --> 00:25:40,240

the chance to train with peggy and oleg

624

00:25:47,190 --> 00:25:43,760

and tomah and we are just this time

625

00:25:50,390 --> 00:25:47,200

getting the chance to uh train with uh

626

00:25:52,950 --> 00:25:50,400

randy uh paulo and sergey so

627

00:25:55,590 --> 00:25:52,960

that training is is a little bit new uh

628

00:25:58,149 --> 00:25:55,600

for us as well other than that it's what

629

00:26:01,909 --> 00:25:58,159

we've done because we trained with paulo

630

00:26:05,269 --> 00:26:04,390

the soon-to-be oldest guy in space yeah

631

00:26:07,190 --> 00:26:05,279

sure

632

00:26:08,710 --> 00:26:07,200

so otherwise you were

633

00:26:11,430 --> 00:26:08,720

training already for the same seat in

634

00:26:12,950 --> 00:26:11,440

the soyuz yes

635

00:26:14,950 --> 00:26:12,960

which is one of the reasons why we were

636

00:26:17,110 --> 00:26:14,960

able to move forward

637

00:26:18,470 --> 00:26:17,120

because the difference was

638

00:26:21,029 --> 00:26:18,480

the smallest

639

00:26:22,710 --> 00:26:21,039

some of our guys you know maybe go from

640

00:26:26,870 --> 00:26:22,720

the right seat to the left seat which is

641

00:26:29,750 --> 00:26:28,149

i think we have some questions on social

642

00:26:31,430 --> 00:26:29,760

media megan

643

00:26:33,590 --> 00:26:31,440

everyone on twitter jack have you been

644

00:26:35,110 --> 00:26:33,600

given any great pieces of advice or

645

00:26:36,710 --> 00:26:35,120

guidance from your classmates who have

646

00:26:39,830 --> 00:26:36,720

already flown

647

00:26:41,750 --> 00:26:39,840

um you know uh i don't know

648

00:26:43,430 --> 00:26:41,760

i've gotten certainly advice from my

649

00:26:47,590 --> 00:26:43,440

classmates i think the best advice i've

650

00:26:50,710 --> 00:26:47,600

gotten is from peggy um i i i'm very

651
00:26:53,510 --> 00:26:50,720
lucky i'm like the cream filling in an

652
00:26:55,110 --> 00:26:53,520
oreo of awesomeness because i have peggy

653
00:26:57,750 --> 00:26:55,120
whitson on one side and fyodor

654
00:26:59,669 --> 00:26:57,760
yurchikhin on the other uh two extremely

655
00:27:02,470 --> 00:26:59,679
experienced people so i've gotten a lot

656
00:27:04,710 --> 00:27:02,480
of advice from pewter i always do uh

657
00:27:05,590 --> 00:27:04,720
peggy i think the best thing she told me

658
00:27:06,549 --> 00:27:05,600
was

659
00:27:23,510 --> 00:27:06,559
a

660
00:27:27,269 --> 00:27:23,520
docking

661
00:27:27,990 --> 00:27:27,279
well we we hope less so

662
00:27:29,029 --> 00:27:28,000
we

663
00:27:31,750 --> 00:27:29,039

it you

664

00:27:32,710 --> 00:27:31,760

normally in the past it took two days

665

00:27:35,269 --> 00:27:32,720

um

666

00:27:38,389 --> 00:27:35,279

then uh there for a while we were doing

667

00:27:41,350 --> 00:27:38,399

four orbit rendezvous so about six hours

668

00:27:44,310 --> 00:27:41,360

the new vehicle actually has a system

669

00:27:46,389 --> 00:27:44,320

that's like a gps system that can

670

00:27:49,110 --> 00:27:46,399

calculate the state vector without

671

00:27:50,230 --> 00:27:49,120

talking to the ground so

672

00:27:51,830 --> 00:27:50,240

if we're

673

00:27:54,070 --> 00:27:51,840

depending on what our launch date

674

00:27:56,630 --> 00:27:54,080

becomes we could conceivably do it in

675

00:27:59,190 --> 00:27:56,640

three orbits

676
00:28:02,870 --> 00:27:59,200
and once the new soyuz rocket comes out

677
00:28:06,310 --> 00:28:02,880
you can do it in two orbits so uh

678
00:28:08,950 --> 00:28:06,320
it's it's it would be pretty cool to be

679
00:28:09,909 --> 00:28:08,960
up on the space station in three hours

680
00:28:11,669 --> 00:28:09,919
uh

681
00:28:13,750 --> 00:28:11,679
for us if we could do it in four and a

682
00:28:15,750 --> 00:28:13,760
half that would be that'd be pretty

683
00:28:18,149 --> 00:28:15,760
awesome yeah

684
00:28:19,830 --> 00:28:18,159
another question on facebook from linda

685
00:28:22,070 --> 00:28:19,840
is it a requirement that astronauts and

686
00:28:23,430 --> 00:28:22,080
cosmonauts be fluent in both english and

687
00:28:25,669 --> 00:28:23,440
russian well

688
00:28:27,510 --> 00:28:25,679

i'm not fluent fyodor's been doing this

689

00:28:29,669 --> 00:28:27,520

for 20 years so

690

00:28:31,350 --> 00:28:29,679

he's a lot better than me in fact we

691

00:28:32,070 --> 00:28:31,360

were doing the commission

692

00:28:35,750 --> 00:28:32,080

and

693

00:28:37,669 --> 00:28:35,760

thank you

694

00:28:40,149 --> 00:28:37,679

and then there's

695

00:28:43,110 --> 00:28:40,159

which is you know all fancy and i tried

696

00:28:46,070 --> 00:28:43,120

to say that and froze uh

697

00:28:49,029 --> 00:28:46,080

it it's when it comes to speaking about

698

00:28:50,549 --> 00:28:49,039

the soyuz i can do pretty darn well uh

699

00:28:52,710 --> 00:28:50,559

when it talks

700

00:28:54,630 --> 00:28:52,720

speaking about life or

701

00:28:57,990 --> 00:28:54,640

you know the weather it gets pretty

702

00:28:59,990 --> 00:28:58,000

rusty quick uh so it's not a requirement

703

00:29:02,630 --> 00:29:00,000

but absolutely

704

00:29:05,430 --> 00:29:02,640

uh i would recommend to everyone every

705

00:29:08,149 --> 00:29:05,440

young person in the country that if you

706

00:29:10,630 --> 00:29:08,159

aren't fluent in a language you you

707

00:29:12,789 --> 00:29:10,640

better get that way because the world is

708

00:29:13,990 --> 00:29:12,799

getting smaller uh

709

00:29:16,710 --> 00:29:14,000

when i

710

00:29:19,669 --> 00:29:16,720

grew up and and certainly when when

711

00:29:22,389 --> 00:29:19,679

fyodor grew up uh you didn't need to

712

00:29:23,750 --> 00:29:22,399

have multiple languages we

713

00:29:26,070 --> 00:29:23,760

we were

714

00:29:29,269 --> 00:29:26,080

not as the world wasn't as small as as

715

00:29:31,510 --> 00:29:29,279

it is now uh now we need to uh and the

716

00:29:34,149 --> 00:29:31,520

more languages you can learn the the

717

00:29:37,110 --> 00:29:34,159

easier they come so uh definitely

718

00:29:38,870 --> 00:29:37,120

recommend to the young people to to

719

00:29:41,909 --> 00:29:38,880

pursue that with

720

00:29:44,310 --> 00:29:41,919

aggressively pursue that

721

00:29:45,990 --> 00:29:44,320

another question on facebook from elle

722

00:29:48,149 --> 00:29:46,000

what experiments are you most looking

723

00:29:49,909 --> 00:29:48,159

forward to

724

00:29:51,669 --> 00:29:49,919

well uh

725

00:29:53,909 --> 00:29:51,679

there was there's a new you know i

726

00:29:56,230 --> 00:29:53,919

mentioned a lot of them already

727

00:29:57,510 --> 00:29:56,240

that i'm excited about that med 2 sounds

728

00:29:59,590 --> 00:29:57,520

fun

729

00:30:02,710 --> 00:29:59,600

there's another one

730

00:30:05,430 --> 00:30:02,720

it's a synthetic bone

731

00:30:08,310 --> 00:30:05,440

where it's it's this new substance that

732

00:30:10,230 --> 00:30:08,320

they can use to to cast and it bonds to

733

00:30:11,590 --> 00:30:10,240

bones

734

00:30:14,070 --> 00:30:11,600

quickly you know we've done a lot of

735

00:30:14,950 --> 00:30:14,080

work with osteoporosis and

736

00:30:19,669 --> 00:30:14,960

and

737

00:30:21,669 --> 00:30:19,679

calcium supplements all of those i think

738

00:30:22,470 --> 00:30:21,679

i think this would be a nice addition to

739

00:30:25,510 --> 00:30:22,480

that

740

00:30:26,470 --> 00:30:25,520

um i'm very excited about the uh the

741

00:30:29,510 --> 00:30:26,480

pros

742

00:30:32,950 --> 00:30:29,520

protein crystals uh because it it gives

743

00:30:35,510 --> 00:30:32,960

us a huge opportunity to uh

744

00:30:37,350 --> 00:30:35,520

crystals form perfectly on orbit

745

00:30:40,070 --> 00:30:37,360

so there's no

746

00:30:41,590 --> 00:30:40,080

there's no variables due to gravity that

747

00:30:44,070 --> 00:30:41,600

sedimentation that we talked about

748

00:30:47,110 --> 00:30:44,080

before and if you have a perfect model

749

00:30:52,630 --> 00:30:50,310

more thoroughly understand the substance

750

00:30:56,470 --> 00:30:52,640

and find out how

751

00:30:58,310 --> 00:30:56,480

it interacts with diseases

752

00:31:00,310 --> 00:30:58,320

things are more virulent viruses are

753

00:31:02,710 --> 00:31:00,320

more virulent on orbit so that also

754

00:31:05,430 --> 00:31:02,720

gives you an advantage we're just we're

755

00:31:07,110 --> 00:31:05,440

eliminating some of the

756

00:31:09,590 --> 00:31:07,120

variables in

757

00:31:10,710 --> 00:31:09,600

studying these medicines and these these

758

00:31:13,750 --> 00:31:10,720

diseases

759

00:31:15,750 --> 00:31:13,760

on orbit that i hope give us an

760

00:31:18,470 --> 00:31:15,760

opportunity to to find those big

761

00:31:20,070 --> 00:31:18,480

discoveries and to cure the diseases

762

00:31:22,310 --> 00:31:20,080

that we just haven't been able to on the

763

00:31:23,590 --> 00:31:22,320

ground

764

00:31:30,950 --> 00:31:23,600

what are you most looking forward to

765

00:31:38,070 --> 00:31:33,909

of course the first of all it's cba

766

00:31:43,110 --> 00:31:40,389

plus one that's an astronaut's job

767

00:31:45,269 --> 00:31:43,120

yeah when we may see the space with

768

00:31:47,509 --> 00:31:45,279

white open eyes

769

00:31:49,590 --> 00:31:47,519

yeah because from station it's only use

770

00:31:51,509 --> 00:31:49,600

eliminators yes

771

00:31:54,070 --> 00:31:51,519

it's the first

772

00:31:57,110 --> 00:31:54,080

no no maybe the second first of all of

773

00:31:59,990 --> 00:31:57,120

course it's meeting with crew and it's

774

00:32:01,350 --> 00:32:00,000

the great time where it's all time very

775

00:32:02,789 --> 00:32:01,360

warm time

776

00:32:05,509 --> 00:32:02,799

because the guys

777

00:32:08,389 --> 00:32:05,519

went us and known when we coming to

778

00:32:10,950 --> 00:32:08,399

station it's time to

779

00:32:13,350 --> 00:32:10,960

finish his expedition yes because i told

780

00:32:15,669 --> 00:32:13,360

you about return to home it's one of

781

00:32:16,950 --> 00:32:15,679

great job for us too yeah

782

00:32:19,590 --> 00:32:16,960

yeah

783

00:32:21,909 --> 00:32:19,600

for uh experience and again and again i

784

00:32:24,870 --> 00:32:21,919

told you about technological experiments

785

00:32:27,509 --> 00:32:24,880

i like this i like it at the earth

786

00:32:30,549 --> 00:32:27,519

observation experiments and check how

787

00:32:32,549 --> 00:32:30,559

change some places on the world from

788

00:32:35,269 --> 00:32:32,559

last my flight yeah

789

00:32:37,909 --> 00:32:35,279

it's sometimes it's terrible yeah

790

00:32:40,389 --> 00:32:37,919

because you may check the how

791

00:32:43,029 --> 00:32:40,399

glaciers

792

00:32:45,509 --> 00:32:43,039

it's smallest than in last time but

793

00:32:48,789 --> 00:32:45,519

sometimes for example in 2010 the

794

00:32:50,549 --> 00:32:48,799

glaciers it was biggest than in 2007 it

795

00:32:53,190 --> 00:32:50,559

was good news too

796

00:32:53,990 --> 00:32:53,200

yeah and sometimes it's changed

797

00:33:04,470 --> 00:32:54,000

the

798

00:33:06,630 --> 00:33:04,480

trees and forests around

799

00:33:09,350 --> 00:33:06,640

rainforest around amazon

800

00:33:12,230 --> 00:33:09,360

rivers it's the humans problem but we

801
00:33:15,350 --> 00:33:12,240
continue this job we take pictures

802
00:33:18,630 --> 00:33:15,360
and so it's a lot of jobs a lot of jobs

803
00:33:21,190 --> 00:33:18,640
and i would like to check again the

804
00:33:23,269 --> 00:33:21,200
clouds because i like to take a clouds

805
00:33:26,149 --> 00:33:23,279
and the clouds it's like

806
00:33:27,029 --> 00:33:26,159
amazing to you in our life and this is

807
00:33:27,830 --> 00:33:27,039
view

808
00:33:28,789 --> 00:33:27,840
like

809
00:33:40,870 --> 00:33:28,799
the

810
00:33:45,990 --> 00:33:42,789
completely different side it's different

811
00:33:49,830 --> 00:33:46,000
right yeah so it's many many and each

812
00:33:52,630 --> 00:33:49,840
and i hope the new flight like each my

813
00:33:55,590 --> 00:33:52,640

flight give me more surprise more good

814

00:33:58,470 --> 00:33:55,600

use more good absolute good task for

815

00:34:01,029 --> 00:33:58,480

observations and i have several tasks i

816

00:34:04,470 --> 00:34:01,039

never take a picture with ireland sao

817

00:34:07,110 --> 00:34:04,480

paulo in middle of atlantic ocean it's

818

00:34:09,510 --> 00:34:07,120

very small but each uh cosmonaut and

819

00:34:12,869 --> 00:34:09,520

astronaut like it to take the picture

820

00:34:17,990 --> 00:34:14,149

sand

821

00:34:20,069 --> 00:34:18,000

the taj mahal and then chinese wall

822

00:34:23,829 --> 00:34:20,079

it's several tasks i never take these

823

00:34:26,149 --> 00:34:23,839

pictures here i try to try it again but

824

00:34:27,829 --> 00:34:26,159

unfortunately gotta keep flying until

825

00:34:29,829 --> 00:34:27,839

you get them

826

00:34:31,270 --> 00:34:29,839

so what are you looking forward to doing

827

00:34:33,829 --> 00:34:31,280

when you get up there jack since it's

828

00:34:36,230 --> 00:34:33,839

all new for you oh well like i said at

829

00:34:38,389 --> 00:34:36,240

just about everything but if i get if i

830

00:34:40,069 --> 00:34:38,399

got to go outside that would be that

831

00:34:43,829 --> 00:34:40,079

would be the ultimate so i i would

832

00:34:46,629 --> 00:34:45,109

are there any questions other questions

833

00:34:47,829 --> 00:34:46,639

from the audience

834

00:34:50,470 --> 00:34:47,839

any of his trainers have any hard

835

00:34:53,030 --> 00:34:50,480

questions for him no they don't yes come

836

00:34:54,230 --> 00:34:53,040

on man

837

00:34:56,149 --> 00:34:54,240

you guys talked about all of the

838

00:34:57,670 --> 00:34:56,159

training and having to compress it and

839

00:34:59,990 --> 00:34:57,680

you go to multiple

840

00:35:01,589 --> 00:35:00,000

centers and you do payloads and systems

841

00:35:02,950 --> 00:35:01,599

and all of that is there any part of

842

00:35:04,550 --> 00:35:02,960

your training that stands out was

843

00:35:07,190 --> 00:35:04,560

memorable good

844

00:35:09,109 --> 00:35:07,200

you know or funny or or entertaining or

845

00:35:09,829 --> 00:35:09,119

some system that you prefer training on

846

00:35:16,790 --> 00:35:09,839

um

847

00:35:19,910 --> 00:35:16,800

yeah

848

00:35:21,270 --> 00:35:19,920

let's see who which instructors are here

849

00:35:22,950 --> 00:35:21,280

um

850

00:35:24,630 --> 00:35:22,960

uh i

851

00:35:28,470 --> 00:35:24,640

you know i enjoy it because it's all

852

00:35:32,310 --> 00:35:28,480

it's all been interesting uh it's it's a

853

00:35:33,670 --> 00:35:32,320

lot harder in russia because i i have to

854

00:35:35,589 --> 00:35:33,680

flip on

855

00:35:38,310 --> 00:35:35,599

the russian side of my brain and it's

856

00:35:41,589 --> 00:35:38,320

not very big so uh i have to work a lot

857

00:35:44,230 --> 00:35:41,599

harder there um i i think the most fun i

858

00:35:46,150 --> 00:35:44,240

have is is in the pool so uh training

859

00:35:49,109 --> 00:35:46,160

for evas i just

860

00:35:52,390 --> 00:35:49,119

i just love uh getting in the water

861

00:35:53,910 --> 00:35:52,400

so that's probably my favorite

862

00:35:57,670 --> 00:35:53,920

then for me

863

00:36:00,069 --> 00:35:57,680

now it's the time when we

864

00:36:02,870 --> 00:36:00,079

when we began training yes it's a lot of

865

00:36:05,910 --> 00:36:02,880

training it's a lot of of emergency

866

00:36:09,510 --> 00:36:05,920

scenarios emergency scenarios etc etc

867

00:36:11,670 --> 00:36:09,520

now we know it's only a few

868

00:36:14,150 --> 00:36:11,680

it's good news

869

00:36:15,829 --> 00:36:14,160

only way just a little repeat again it's

870

00:36:21,829 --> 00:36:15,839

a few

871

00:36:23,750 --> 00:36:21,839

and just a little just a little terrible

872

00:36:25,109 --> 00:36:23,760

time in russia when we have complex

873

00:36:27,589 --> 00:36:25,119

exams we

874

00:36:29,670 --> 00:36:27,599

we should pass these exams in in russia

875

00:36:31,109 --> 00:36:29,680

it's uh

876

00:36:33,430 --> 00:36:31,119

it's two different

877

00:36:35,990 --> 00:36:33,440

kind of training here and in russian

878

00:36:38,390 --> 00:36:36,000

side yeah in russian side it's more

879

00:36:41,670 --> 00:36:38,400

complexable last training

880

00:36:44,790 --> 00:36:41,680

here we began have this training since

881

00:36:47,510 --> 00:36:44,800

we trained here and so it's easiest for

882

00:36:49,270 --> 00:36:47,520

us to finish training here yeah

883

00:36:51,750 --> 00:36:49,280

in russia it's like suppressed

884

00:36:54,470 --> 00:36:51,760

suppressed suppressed and last one and

885

00:36:55,190 --> 00:36:54,480

the last one is just a big long

886

00:36:58,150 --> 00:36:55,200

so

887

00:37:00,630 --> 00:36:58,160

we we go through seven different exams

888

00:37:03,510 --> 00:37:00,640

of all sorts of different types of

889

00:37:05,270 --> 00:37:03,520

things from flying manually docking

890

00:37:07,589 --> 00:37:05,280

manual descent

891

00:37:11,510 --> 00:37:07,599

you do all sorts of exams but then the

892

00:37:12,950 --> 00:37:11,520

last two big ones are a full day in the

893

00:37:16,870 --> 00:37:12,960

russian segment

894

00:37:19,829 --> 00:37:16,880

and then a full day in the soyuz and if

895

00:37:22,550 --> 00:37:19,839

you guys don't know how small it is in

896

00:37:24,150 --> 00:37:22,560

the soyuz or how we sit in the soyuz you

897

00:37:26,630 --> 00:37:24,160

should look at the picture

898

00:37:29,670 --> 00:37:26,640

because that's a long time to be sitting

899

00:37:31,349 --> 00:37:29,680

in the soyuz getting emergencies thrown

900

00:37:33,270 --> 00:37:31,359

at you so

901
00:37:36,390 --> 00:37:33,280
we're getting there

902
00:37:37,670 --> 00:37:36,400
the fishing can it's more like yes yes

903
00:37:40,069 --> 00:37:37,680
well two things

904
00:37:43,430 --> 00:37:40,079
in a can

905
00:37:47,109 --> 00:37:46,069
now we're kind of smaller

906
00:37:48,790 --> 00:37:47,119
i think we have a couple more from

907
00:37:51,190 --> 00:37:48,800
social media we have another one on

908
00:37:53,670 --> 00:37:51,200
twitter being able to experience space

909
00:37:55,510 --> 00:37:53,680
firsthand is undoubtedly inspiring what

910
00:37:57,109 --> 00:37:55,520
are your hopes for the future of space

911
00:37:58,470 --> 00:37:57,119
travel

912
00:38:02,150 --> 00:37:58,480
oh

913
00:38:04,390 --> 00:38:02,160

our hopes are like i said i i want

914

00:38:07,829 --> 00:38:04,400

low earth orbit to be

915

00:38:08,790 --> 00:38:07,839

a commercial hotbed of activity uh

916

00:38:11,430 --> 00:38:08,800

because

917

00:38:13,829 --> 00:38:11,440

not that that's easy but it is something

918

00:38:17,109 --> 00:38:13,839

that our infrastructure can support now

919

00:38:18,870 --> 00:38:17,119

uh as as far as the future i i look

920

00:38:22,790 --> 00:38:18,880

forward to people

921

00:38:25,589 --> 00:38:22,800

my daughter's age uh going to mars and

922

00:38:28,870 --> 00:38:25,599

and the moon mars just

923

00:38:31,670 --> 00:38:28,880

for us to take those first steps and

924

00:38:37,750 --> 00:38:31,680

into the cosmos

925

00:38:41,030 --> 00:38:37,760

what i am most excited about and like i

926

00:38:43,750 --> 00:38:41,040

said this is a really exciting time we

927

00:38:48,069 --> 00:38:43,760

have more going on now in space than we

928

00:38:50,550 --> 00:38:48,079

have in decades so it's exciting to see

929

00:38:53,349 --> 00:38:50,560

us take those steps and and start

930

00:38:55,270 --> 00:38:53,359

exploring for real

931

00:38:57,190 --> 00:38:55,280

another one on twitter

932

00:38:59,270 --> 00:38:57,200

wants to know about all of your

933

00:39:01,430 --> 00:38:59,280

graduation level experience if you have

934

00:39:02,550 --> 00:39:01,440

graduate degrees

935

00:39:05,670 --> 00:39:02,560

uh

936

00:39:09,109 --> 00:39:05,680

i have a graduate degree in

937

00:39:12,310 --> 00:39:09,119

aeronautics and astronautics from mit

938

00:39:16,790 --> 00:39:14,470

i have several

939

00:39:19,750 --> 00:39:16,800

yeah because it's again it's

940

00:39:22,630 --> 00:39:19,760

just a little different because

941

00:39:24,710 --> 00:39:22,640

i finished i graduated moscow foundation

942

00:39:27,829 --> 00:39:24,720

institute i graduated

943

00:39:31,270 --> 00:39:27,839

moscow service university by economics

944

00:39:33,589 --> 00:39:31,280

and i have phd economics i graduated of

945

00:39:36,069 --> 00:39:33,599

course and you two graduated the first

946

00:39:39,030 --> 00:39:36,079

level astronauts and cosmonauts

947

00:39:45,750 --> 00:39:43,109

yes so it's several years but look here

948

00:39:48,150 --> 00:39:45,760

what is the cosmonaut and austrian of

949

00:39:51,190 --> 00:39:48,160

profession yes it's many many

950

00:39:53,270 --> 00:39:51,200

professions in one world

951
00:39:54,870 --> 00:39:53,280
because each of us it should be just a

952
00:39:57,750 --> 00:39:54,880
little doctor just

953
00:40:00,150 --> 00:39:57,760
but not bad yeah because we help each

954
00:40:02,790 --> 00:40:00,160
other just a little photography just a

955
00:40:06,630 --> 00:40:02,800
little engineer just a little work

956
00:40:09,829 --> 00:40:06,640
scientist dentist i i don't know how

957
00:40:11,589 --> 00:40:09,839
many profession and one volt cosmonaut

958
00:40:13,670 --> 00:40:11,599
or australia

959
00:40:16,309 --> 00:40:13,680
we you know we always say jack of all

960
00:40:18,069 --> 00:40:16,319
trades master none we got it we we got

961
00:40:21,109 --> 00:40:18,079
to be jack of all trades but we do have

962
00:40:24,150 --> 00:40:21,119
to be master of a few so yeah it's a

963
00:40:26,230 --> 00:40:24,160

little more work

964

00:40:27,750 --> 00:40:26,240

one more on twitter um to follow up on

965

00:40:30,630 --> 00:40:27,760

the training what's the hardest

966

00:40:35,430 --> 00:40:30,640

preparation that you've done for this

967

00:40:41,589 --> 00:40:39,270

no i i think for for jack the first it

968

00:40:43,030 --> 00:40:41,599

was when he

969

00:40:47,270 --> 00:40:43,040

look me and

970

00:40:50,950 --> 00:40:47,280

talk i i think it's mine

971

00:40:54,470 --> 00:40:50,960

oh my god this is very stupid old man

972

00:40:56,710 --> 00:40:54,480

and i will walk with this very stupid

973

00:40:58,150 --> 00:40:56,720

old man because

974

00:41:00,790 --> 00:40:58,160

not at all

975

00:41:03,829 --> 00:41:00,800

yeah but but because uh

976

00:41:08,710 --> 00:41:07,670

no not terrible not difficult but again

977

00:41:10,150 --> 00:41:08,720

and again

978

00:41:13,109 --> 00:41:10,160

because

979

00:41:15,589 --> 00:41:13,119

he should understand my techniques

980

00:41:17,910 --> 00:41:15,599

i should understand his levels yes and

981

00:41:19,670 --> 00:41:17,920

the first time when we work together if

982

00:41:22,150 --> 00:41:19,680

you remember the first our training

983

00:41:24,870 --> 00:41:22,160

sometimes we had mistake both of us here

984

00:41:27,510 --> 00:41:24,880

do not understand each other very well

985

00:41:29,589 --> 00:41:27,520

but now he is half of me i hope i am

986

00:41:32,950 --> 00:41:29,599

half of you it's we're an old married

987

00:41:35,829 --> 00:41:32,960

couple yeah i'm pretty sure yeah we're

988

00:41:40,550 --> 00:41:35,839

we've been together uh training for

989

00:41:44,630 --> 00:41:40,560

over two years yeah and so we

990

00:41:45,910 --> 00:41:44,640

we get each other we kind of i i know

991

00:41:48,390 --> 00:41:45,920

his his

992

00:41:49,270 --> 00:41:48,400

you know the way he moves his head or

993

00:41:51,990 --> 00:41:49,280

that

994

00:41:55,190 --> 00:41:52,000

clears his throat or oh

995

00:41:56,870 --> 00:41:55,200

that means he's not happy or

996

00:41:58,470 --> 00:41:56,880

so where we've

997

00:42:01,990 --> 00:41:58,480

we've learned those things about each

998

00:42:03,510 --> 00:42:02,000

other and and i think in in the soyuz

999

00:42:06,870 --> 00:42:03,520

especially because that's been the

1000

00:42:09,030 --> 00:42:06,880

majority of our training um we

1001
00:42:11,270 --> 00:42:09,040
we've gotten to a point where we're very

1002
00:42:13,910 --> 00:42:11,280
efficient with just a look

1003
00:42:16,230 --> 00:42:13,920
uh just a grunt you know because

1004
00:42:18,870 --> 00:42:16,240
sometimes i don't know the word and so

1005
00:42:20,470 --> 00:42:18,880
it's it's uh we've we've gotten pretty

1006
00:42:22,950 --> 00:42:20,480
good at working together

1007
00:42:24,069 --> 00:42:22,960
uh and that that is one of the hardest

1008
00:42:26,309 --> 00:42:24,079
things

1009
00:42:30,870 --> 00:42:26,319
in training is gelling as a crew one

1010
00:42:32,069 --> 00:42:30,880
team one team exploring together

1011
00:42:33,270 --> 00:42:32,079
thank you

1012
00:42:34,550 --> 00:42:33,280
do we have any other questions in the

1013
00:42:35,589 --> 00:42:34,560

audience

1014

00:42:36,470 --> 00:42:35,599

yes ma'am

1015

00:42:38,309 --> 00:42:36,480

um

1016

00:42:39,829 --> 00:42:38,319

for mr fisher have you been able to try

1017

00:42:41,670 --> 00:42:39,839

some of the space food that you'll be

1018

00:42:45,510 --> 00:42:41,680

having in space have you had some here

1019

00:42:46,390 --> 00:42:45,520

now i have and it's pretty awesome so

1020

00:42:49,589 --> 00:42:46,400

the

1021

00:42:52,069 --> 00:42:49,599

first time we deployed we were pretty

1022

00:42:56,230 --> 00:42:52,079

much just eating mres you know just a

1023

00:42:58,710 --> 00:42:56,240

few kinds so having the like 200

1024

00:43:02,069 --> 00:42:58,720

plus different options that we have and

1025

00:43:06,069 --> 00:43:02,079

and in the kitchen here is amazing and

1026

00:43:09,190 --> 00:43:06,079

then we also uh did a tasting over in

1027

00:43:11,430 --> 00:43:09,200

russia of all of their food

1028

00:43:12,710 --> 00:43:11,440

and you know it's it's like anything

1029

00:43:19,109 --> 00:43:12,720

some of it's

1030

00:43:21,109 --> 00:43:19,119

you know kinda uh so you have to go

1031

00:43:22,790 --> 00:43:21,119

through and and make sure you understand

1032

00:43:24,069 --> 00:43:22,800

which ones you like and which ones you

1033

00:43:25,109 --> 00:43:24,079

don't

1034

00:43:27,349 --> 00:43:25,119

because

1035

00:43:29,109 --> 00:43:27,359

even if you're not a picky eater it's

1036

00:43:30,790 --> 00:43:29,119

it's kind of like cigarettes in prison

1037

00:43:34,150 --> 00:43:30,800

you want to be able to trade them to

1038

00:43:37,430 --> 00:43:34,160

your crew mates and hey here's

1039

00:43:45,270 --> 00:43:37,440

i i really like the brownies so i got

1040

00:43:48,630 --> 00:43:47,030

it's not only important to know what you

1041

00:43:53,990 --> 00:43:48,640

like it's important to know what your

1042

00:43:57,829 --> 00:43:56,870

any other questions

1043

00:44:00,790 --> 00:43:57,839

yes sir

1044

00:44:02,630 --> 00:44:00,800

um so can you tell us a little bit about

1045

00:44:03,750 --> 00:44:02,640

what is the feeling of what goes through

1046

00:44:05,990 --> 00:44:03,760

your head when they tell you you are

1047

00:44:08,630 --> 00:44:06,000

going to go to space but personally like

1048

00:44:10,950 --> 00:44:08,640

you have excitement or

1049

00:44:12,390 --> 00:44:10,960

can you tell us a little bit about that

1050

00:44:13,270 --> 00:44:12,400

um so

1051
00:44:15,589 --> 00:44:13,280
for me

1052
00:44:17,829 --> 00:44:15,599
you know obviously it was it was it was

1053
00:44:19,349 --> 00:44:17,839
very exciting when when i got selected

1054
00:44:21,670 --> 00:44:19,359
for a mission but i'll tell you a story

1055
00:44:24,309 --> 00:44:21,680
about when they called me

1056
00:44:28,550 --> 00:44:24,319
to come down to houston so i was

1057
00:44:31,829 --> 00:44:28,560
supposed to deploy to iraq for a year

1058
00:44:32,790 --> 00:44:31,839
and i was home for a couple weeks before

1059
00:44:37,030 --> 00:44:32,800
that

1060
00:44:39,670 --> 00:44:37,040
was actually home

1061
00:44:42,470 --> 00:44:39,680
my wife and kids and and my beagle were

1062
00:44:44,150 --> 00:44:42,480
home and we got the call and you know

1063
00:44:45,829 --> 00:44:44,160

we've been waiting because

1064

00:44:47,990 --> 00:44:45,839

when you're going through the selection

1065

00:44:49,349 --> 00:44:48,000

process it's kind of a

1066

00:44:50,630 --> 00:44:49,359

nerve-wracking

1067

00:44:53,670 --> 00:44:50,640

year-long

1068

00:44:56,069 --> 00:44:53,680

uh event of interviews and everything

1069

00:44:58,550 --> 00:44:56,079

else so we'd been waiting and i pick up

1070

00:45:00,069 --> 00:44:58,560

the phone and and you know my wife kind

1071

00:45:01,829 --> 00:45:00,079

of looked at me

1072

00:45:05,510 --> 00:45:01,839

does he look like his dreams are

1073

00:45:07,589 --> 00:45:05,520

shattered or is this a good look and she

1074

00:45:08,550 --> 00:45:07,599

determined it was a good look and so

1075

00:45:11,190 --> 00:45:08,560

then

1076
00:45:12,790 --> 00:45:11,200
my we're i'm actually talking to the

1077
00:45:14,309 --> 00:45:12,800
chief of the office

1078
00:45:17,270 --> 00:45:14,319
um

1079
00:45:19,349 --> 00:45:17,280
colonel lindsey and and uh and we're

1080
00:45:22,069 --> 00:45:19,359
jumping up and down i'm trying to cover

1081
00:45:23,990 --> 00:45:22,079
the phone we're we're all hugging all

1082
00:45:26,710 --> 00:45:24,000
four of us and then my little beagle's

1083
00:45:27,829 --> 00:45:26,720
just jumping on his hind legs around us

1084
00:45:29,430 --> 00:45:27,839
so it was

1085
00:45:32,230 --> 00:45:29,440
it was a uh

1086
00:45:34,710 --> 00:45:32,240
you know pogo stick of of of excitement

1087
00:45:37,030 --> 00:45:34,720
i guess you could call it and uh

1088
00:45:39,910 --> 00:45:37,040

you know it it's hard to describe it's

1089

00:45:45,670 --> 00:45:42,470

and and i look forward to the moment

1090

00:45:48,069 --> 00:45:45,680

when when we light the candle and and

1091

00:45:49,750 --> 00:45:48,079

and get booking up to space and i get to

1092

00:45:52,790 --> 00:45:49,760

look out that window for the first time

1093

00:45:54,470 --> 00:45:52,800

so i think that's when it'll really sink

1094

00:45:56,309 --> 00:45:54,480

in and uh

1095

00:46:00,870 --> 00:45:56,319

and then i'll i'll come back and answer

1096

00:46:00,880 --> 00:46:08,230

any others

1097

00:46:13,589 --> 00:46:09,990

all right well thank you for being part

1098

00:46:14,470 --> 00:46:13,599

of the expedition 1 51 52 crew news

1099

00:46:17,109 --> 00:46:14,480

conference

1100

00:46:19,510 --> 00:46:17,119

you can find jack on twitter at

1101

00:46:21,270 --> 00:46:19,520

astro underscore two fish

1102

00:46:23,349 --> 00:46:21,280

and you can also follow the crew members

1103

00:46:24,589 --> 00:46:23,359

inflight experiences on instagram by

1104

00:46:26,829 --> 00:46:24,599

going to

1105

00:46:28,950 --> 00:46:26,839

instagram.com

1106

00:46:31,030 --> 00:46:28,960

iss for more information on the