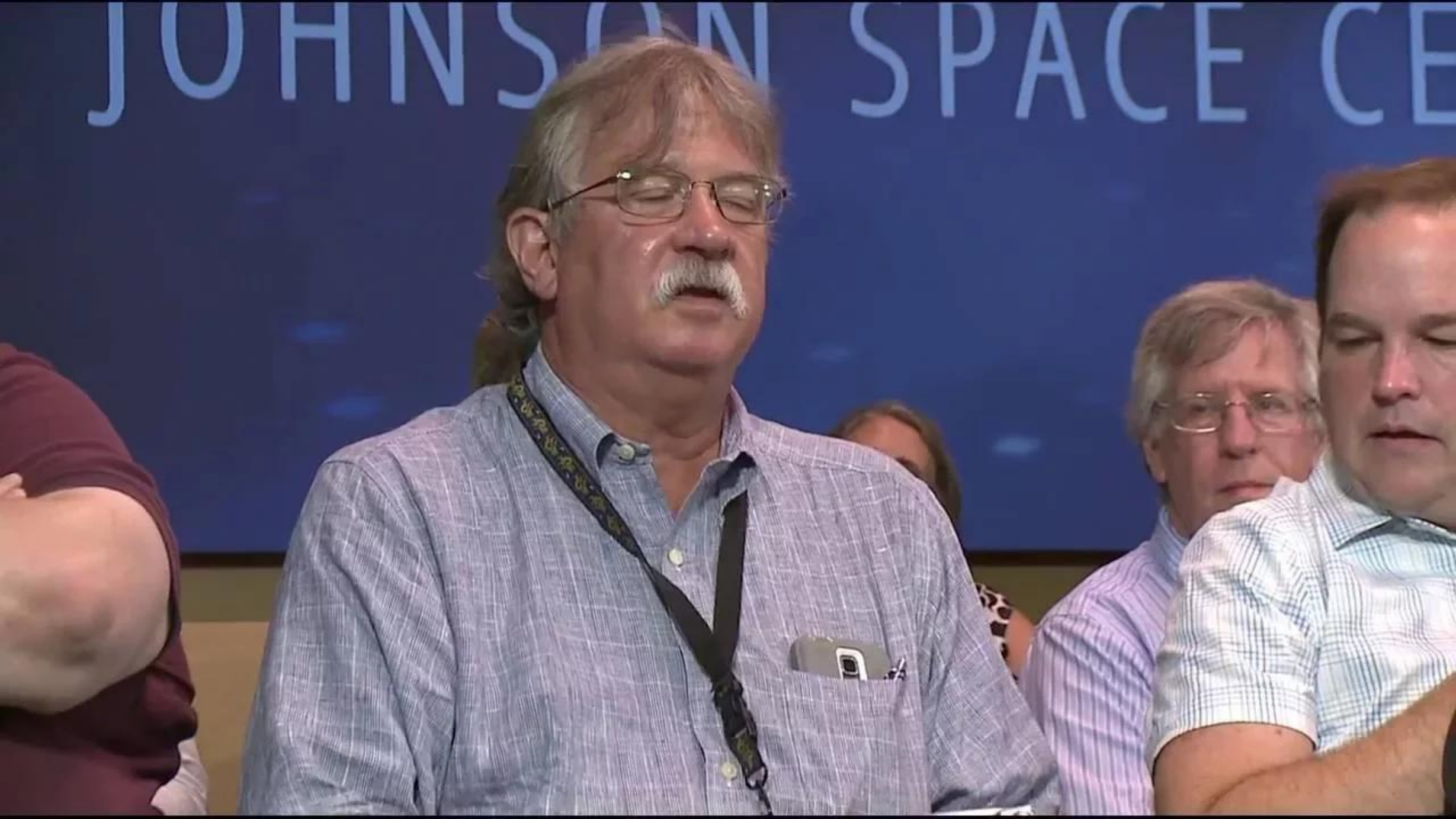
JOHNSON SPACE CE

1
00:00:06,710 --> 00:00:04,070
good afternoon and welcome to nasa tv

2
00:00:09,110 --> 00:00:06,720
and the expedition 5051 crew news

3
00:00:11,350 --> 00:00:09,120
conference we have the expedition 5051

4
00:00:12,549 --> 00:00:11,360
crew right here they are almost done

5
00:00:15,030 --> 00:00:12,559
with their training and getting ready

6
00:00:17,510 --> 00:00:15,040
for a launch in baikonur on november

7
00:00:18,790 --> 00:00:17,520
15th first we have commander peggy

8
00:00:21,349 --> 00:00:18,800
whitson who will be returning to the

9
00:00:23,590 --> 00:00:21,359
space station for her third long

10
00:00:25,589 --> 00:00:23,600
duration mission setting a new record

11
00:00:27,990 --> 00:00:25,599
for women on board the space station

12
00:00:29,750 --> 00:00:28,000
next to her we have thomas pesquet who

13
00:00:32,389 --> 00:00:29,760

is a french astronaut with the european

14
00:00:34,870 --> 00:00:32,399
space agency issa will be going to space

15
00:00:36,150 --> 00:00:34,880
for his first time getting ready for his

16
00:00:39,030 --> 00:00:36,160
first mission

17
00:00:41,830 --> 00:00:39,040
and on down the line oleg novitskiy from

18
00:00:43,510 --> 00:00:41,840
roscosmos he will be his second tour at

19
00:00:45,350 --> 00:00:43,520
the space station

20
00:00:48,150 --> 00:00:45,360
they will be up again launching on

21
00:00:50,950 --> 00:00:48,160
november 15th and landing currently on

22
00:00:52,709 --> 00:00:50,960
april 20th so if you uh have been paying

23
00:00:55,350 --> 00:00:52,719
attention you know that

24
00:00:57,750 --> 00:00:55,360
peggy whitson has 156 days in space

25
00:00:59,270 --> 00:00:57,760
already and that will give for 376 days

26
00:01:02,869 --> 00:00:59,280
in space already that'll give her

27
00:01:05,910 --> 00:01:02,879
another 156 and would that launch date

28
00:01:08,390 --> 00:01:05,920
uh now fall just a couple of days short

29
00:01:10,789 --> 00:01:08,400
of breaking jeff williams record that he

30
00:01:13,910 --> 00:01:10,799
just is working on setting for most time

31
00:01:15,749 --> 00:01:13,920
by spent by a u.s astronaut in space so

32
00:01:17,590 --> 00:01:15,759
we had expected her to beat that record

33
00:01:19,990 --> 00:01:17,600
that's changed a little bit and want to

34
00:01:21,830 --> 00:01:20,000
let everybody know about that change but

35
00:01:22,870 --> 00:01:21,840
what we're going to do today is focus on

36
00:01:24,310 --> 00:01:22,880
what they are going to be doing while

37
00:01:26,390 --> 00:01:24,320
they are at the space station we'll be

38
00:01:28,950 --> 00:01:26,400

taking questions here in the room we

39
00:01:31,109 --> 00:01:28,960
have a lot of folks with questions lined

40
00:01:33,030 --> 00:01:31,119
up and you can also of course

41
00:01:34,789 --> 00:01:33,040
participate via phone bridge if you are

42
00:01:37,270 --> 00:01:34,799
participating that way you can press

43
00:01:39,350 --> 00:01:37,280
star 1 if you have a question or star 2

44
00:01:40,710 --> 00:01:39,360
if your question gets answered and also

45
00:01:43,590 --> 00:01:40,720
we'll be taking questions using the

46
00:01:44,789 --> 00:01:43,600
hashtag ask nasa on social media so if

47
00:01:46,710 --> 00:01:44,799
you have a question that you'd like to

48
00:01:47,510 --> 00:01:46,720
send in we'll be we'll be watching for

49
00:01:49,590 --> 00:01:47,520
those

50
00:01:51,109 --> 00:01:49,600
um we're going to start and let uh peggy

51
00:01:51,990 --> 00:01:51,119
introduce herself

52
00:01:54,149 --> 00:01:52,000
okay

53
00:01:56,149 --> 00:01:54,159
as brandi mentioned i've been to the

54
00:01:59,270 --> 00:01:56,159
space station a couple of times

55
00:02:00,469 --> 00:01:59,280
i am originally from iowa i grew up on a

56
00:02:03,590 --> 00:02:00,479
farm there

57
00:02:05,429 --> 00:02:03,600
and went to small college iowa wesleyan

58
00:02:08,309 --> 00:02:05,439
we have some representatives here today

59
00:02:11,029 --> 00:02:08,319
from wesleyan then i came to houston and

60
00:02:12,869 --> 00:02:11,039
did my graduate work in biochemistry at

61
00:02:15,750 --> 00:02:12,879
rice university

62
00:02:17,270 --> 00:02:15,760
i was lucky enough to fly uh two

63
00:02:18,550 --> 00:02:17,280

previous times on board the space

64
00:02:20,470 --> 00:02:18,560
station

65
00:02:22,869 --> 00:02:20,480
and i've always said that i have the

66
00:02:25,270 --> 00:02:22,879
best job in the world because i get to

67
00:02:27,430 --> 00:02:25,280
work with nasa i love what it stands for

68
00:02:29,830 --> 00:02:27,440
and exploration and so

69
00:02:32,710 --> 00:02:29,840
i'd like to hand it over to tomat to

70
00:02:35,030 --> 00:02:32,720
talk about himself

71
00:02:36,550 --> 00:02:35,040
please tomorrow so uh so

72
00:02:37,990 --> 00:02:36,560
i'm toma pesquet

73
00:02:39,830 --> 00:02:38,000
i'm currently a national office of the

74
00:02:42,550 --> 00:02:39,840
european space agency

75
00:02:44,070 --> 00:02:42,560
i was born in france in normandy where i

76
00:02:46,550 --> 00:02:44,080
grew up

77
00:02:48,070 --> 00:02:46,560
and then i studied aerospace engineering

78
00:02:51,030 --> 00:02:48,080
in college

79
00:02:53,190 --> 00:02:51,040
and after my graduation i had a few jobs

80
00:02:55,350 --> 00:02:53,200
in the aerospace industry uh mostly

81
00:02:57,270 --> 00:02:55,360
abroad and then i came back to

82
00:02:58,630 --> 00:02:57,280
france and i worked for the french space

83
00:03:02,149 --> 00:02:58,640
agency

84
00:03:05,110 --> 00:03:02,159
for a couple years i became a pilot

85
00:03:07,190 --> 00:03:05,120
airline pilot for uh air france or

86
00:03:09,509 --> 00:03:07,200
national company and i flew

87
00:03:10,869 --> 00:03:09,519
uh mostly all around europe for five or

88
00:03:12,630 --> 00:03:10,879

six years

89
00:03:15,350 --> 00:03:12,640
became an instructor

90
00:03:18,470 --> 00:03:15,360
and in 2008 i was lucky enough to be

91
00:03:21,190 --> 00:03:18,480
part of esa's new selection of six

92
00:03:22,550 --> 00:03:21,200
individuals from all across europe uh

93
00:03:24,390 --> 00:03:22,560
who are currently

94
00:03:26,070 --> 00:03:24,400
flying to the international space

95
00:03:28,390 --> 00:03:26,080
station and getting ready for uh

96
00:03:30,309 --> 00:03:28,400
whatever comes up next in the future so

97
00:03:32,390 --> 00:03:30,319
i'm uh obviously very excited because

98
00:03:34,390 --> 00:03:32,400
that's gonna be my first flight in space

99
00:03:36,390 --> 00:03:34,400
i'm lucky enough to fly with two

100
00:03:37,430 --> 00:03:36,400
fantastic individuals so i know we're

101
00:03:38,949 --> 00:03:37,440
going to have fun i know we're going to

102
00:03:41,589 --> 00:03:38,959
get a lot of work done

103
00:03:42,630 --> 00:03:41,599
and i can't wait to launch in november

104
00:03:43,589 --> 00:03:42,640
all right

105
00:04:28,790 --> 00:03:43,599
you know like would you like to

106
00:04:34,310 --> 00:04:29,670
sure

107
00:04:35,189 --> 00:04:34,320
so i was born in 1971 in a small russian

108
00:04:38,150 --> 00:04:35,199
town

109
00:04:41,110 --> 00:04:38,160
and uh jeremy it's called

110
00:04:43,590 --> 00:04:41,120
i graduated from the school there and

111
00:04:44,790 --> 00:04:43,600
then i went to the barista lab flight

112
00:04:47,749 --> 00:04:44,800
school

113
00:04:52,150 --> 00:04:47,759

i also served at the northern caucasus

114
00:04:55,510 --> 00:04:52,160
region and i was in charge of a squadron

115
00:04:58,550 --> 00:04:55,520
right now i'm a retired colonel and

116
00:05:00,310 --> 00:04:58,560
i have already accomplished one mission

117
00:05:03,029 --> 00:05:00,320
to the space station

118
00:05:04,230 --> 00:05:03,039
i flew with kevin ford and evgeny

119
00:05:06,950 --> 00:05:04,240
tarelkin

120
00:05:09,270 --> 00:05:06,960
right now i'm preparing for my second

121
00:05:11,830 --> 00:05:09,280
mission and i'm so happy to have this

122
00:05:13,670 --> 00:05:11,840
great crew i'm i'm sure that will

123
00:05:16,710 --> 00:05:13,680
accomplish all of the missions and it's

124
00:05:17,990 --> 00:05:16,720
going to be a great flight thank you

125
00:05:19,510 --> 00:05:18,000
all right

126
00:05:21,510 --> 00:05:19,520
okay thank you so we're going to start

127
00:05:23,029 --> 00:05:21,520
now taking questions here in the room

128
00:05:25,749 --> 00:05:23,039
and we have a few guests with us we have

129
00:05:27,909 --> 00:05:25,759
a number of reporters as well as some

130
00:05:29,510 --> 00:05:27,919
students from 4-h which

131
00:05:31,270 --> 00:05:29,520
peggy whitson was involved in when she

132
00:05:32,790 --> 00:05:31,280
was in high school so we're going to

133
00:05:34,150 --> 00:05:32,800
take questions here in the room and then

134
00:05:35,029 --> 00:05:34,160
we'll go to the phone bridge so if

135
00:05:36,710 --> 00:05:35,039
you're on the phone be getting your

136
00:05:40,469 --> 00:05:36,720
question ready let's start over here

137
00:05:43,590 --> 00:05:40,479
with mark thank you mark

138
00:05:57,590 --> 00:05:43,600

for aviation weak and space technology

139
00:06:01,430 --> 00:05:59,749
well as you know things always change

140
00:06:02,629 --> 00:06:01,440
based on schedule and when things get

141
00:06:04,390 --> 00:06:02,639
lodged but

142
00:06:06,790 --> 00:06:04,400
the one activity that we are going to be

143
00:06:09,189 --> 00:06:06,800
involved with that will be directly

144
00:06:12,150 --> 00:06:09,199
related in the future is we're moving

145
00:06:13,749 --> 00:06:12,160
the pressurized mating adapter 3 to node

146
00:06:15,110 --> 00:06:13,759
2 zenith

147
00:06:17,350 --> 00:06:15,120
and that will

148
00:06:19,590 --> 00:06:17,360
prove that will be our second

149
00:06:22,150 --> 00:06:19,600
docking port for the commercial crew

150
00:06:24,309 --> 00:06:22,160
providers we always we work for nasa so

151
00:06:26,870 --> 00:06:24,319
we have to have two of everything so the

152
00:06:28,870 --> 00:06:26,880
primary one was just put on and kate and

153
00:06:31,110 --> 00:06:28,880
jeff williams did kate rubens and jeff

154
00:06:33,029 --> 00:06:31,120
williams just did the eva to install the

155
00:06:35,430 --> 00:06:33,039
international docking adapter to that

156
00:06:38,230 --> 00:06:35,440
pressurized mating adapter so one

157
00:06:41,029 --> 00:06:38,240
that'll be one docking port we'll be

158
00:06:43,430 --> 00:06:41,039
moving the pressurized mating adapter to

159
00:06:44,629 --> 00:06:43,440
the node 2 zenith and installing it

160
00:06:47,110 --> 00:06:44,639
there

161
00:06:49,029 --> 00:06:47,120
later the second international docking

162
00:06:51,350 --> 00:06:49,039
adapter will arrive and be placed on it

163
00:06:55,589 --> 00:06:51,360

so that we'll have two docking ports for

164
00:07:00,550 --> 00:06:57,670
all right rob robert

165
00:07:03,749 --> 00:07:00,560
space.com um i'm wondering what the

166
00:07:07,270 --> 00:07:03,759
delay hpv6 and

167
00:07:09,909 --> 00:07:07,280
to orbital apks cygnus um five and then

168
00:07:11,909 --> 00:07:09,919
set and subsequently seven missions are

169
00:07:13,749 --> 00:07:11,919
doing in terms of planning for your not

170
00:07:17,990 --> 00:07:13,759
just your logistics but the science

171
00:07:22,550 --> 00:07:20,070
and just in terms of managing your

172
00:07:25,189 --> 00:07:22,560
schedule during six months

173
00:07:26,950 --> 00:07:25,199
well i think we're if if everything goes

174
00:07:29,350 --> 00:07:26,960
and we get all the vehicles that are

175
00:07:30,550 --> 00:07:29,360
planned we will have a very exciting and

176
00:07:32,550 --> 00:07:30,560
busy mission

177
00:07:35,029 --> 00:07:32,560
i anticipate that it's going to be busy

178
00:07:36,629 --> 00:07:35,039
no matter what what we end up having

179
00:07:39,749 --> 00:07:36,639
because the the ground is great at

180
00:07:41,749 --> 00:07:39,759
finding things for for us to work on uh

181
00:07:44,950 --> 00:07:41,759
depending on what's available

182
00:07:46,869 --> 00:07:44,960
but um the the i think the ground team

183
00:07:49,430 --> 00:07:46,879
is having a real hard time now sorting

184
00:07:51,110 --> 00:07:49,440
you know if this this is you know if in

185
00:07:53,670 --> 00:07:51,120
this scenario it's going to be difficult

186
00:07:56,070 --> 00:07:53,680
and so they have to figure and until one

187
00:07:57,350 --> 00:07:56,080
vehicle settles down into a spot

188
00:07:59,830 --> 00:07:57,360

and then we can move things

189
00:08:02,390 --> 00:07:59,840
appropriately and figure those details

190
00:08:05,029 --> 00:08:02,400
out um that's going to be some of those

191
00:08:07,270 --> 00:08:05,039
fine details we don't know yet but we're

192
00:08:09,510 --> 00:08:07,280
an adaptable crew we will be able to do

193
00:08:11,670 --> 00:08:09,520
whatever it is that they give us to do

194
00:08:13,350 --> 00:08:11,680
and we're looking forward to it we have

195
00:08:15,830 --> 00:08:13,360
an incredible number of scientific

196
00:08:18,230 --> 00:08:15,840
investigations some are already on board

197
00:08:20,390 --> 00:08:18,240
some will be arriving as we go you know

198
00:08:21,909 --> 00:08:20,400
while we're up there but a lot of them

199
00:08:24,309 --> 00:08:21,919
are already on board and we will be able

200
00:08:26,950 --> 00:08:24,319
to continue to conduct research onboard

201
00:08:29,110 --> 00:08:26,960
the iss

202
00:08:31,670 --> 00:08:29,120
depending no matter what the shuffle is

203
00:08:33,990 --> 00:08:31,680
we'll figure something out

204
00:08:36,630 --> 00:08:34,000
all right how about eric berger

205
00:08:38,310 --> 00:08:36,640
with our technical peggy um

206
00:08:40,709 --> 00:08:38,320
just wondering kind of your mindset when

207
00:08:41,829 --> 00:08:40,719
you came back from expedition 16 did you

208
00:08:43,029 --> 00:08:41,839
think you were going to get a chance to

209
00:08:45,110 --> 00:08:43,039
go back to the station for another

210
00:08:46,710 --> 00:08:45,120
increment and how much of a challenge

211
00:08:48,070 --> 00:08:46,720
with the radiation lifetime exposure

212
00:08:49,350 --> 00:08:48,080
that astronauts have to deal with

213
00:08:51,829 --> 00:08:49,360

whether it's to sort of work through

214
00:08:54,710 --> 00:08:51,839
that process with the physicians to sort

215
00:08:56,790 --> 00:08:54,720
of get approval and get clear cleared

216
00:08:59,590 --> 00:08:56,800
well after i got back from the last

217
00:09:01,670 --> 00:08:59,600
mission um i knew that i wanted to fly

218
00:09:03,670 --> 00:09:01,680
in space again so it was just a matter

219
00:09:05,269 --> 00:09:03,680
of time and

220
00:09:07,190 --> 00:09:05,279
and that's what the doctors told me is

221
00:09:09,269 --> 00:09:07,200
that you have to wait a few years and so

222
00:09:11,509 --> 00:09:09,279
i took on some other technical jobs

223
00:09:13,590 --> 00:09:11,519
while i was waiting and

224
00:09:15,910 --> 00:09:13,600
now i'm back and ready to fly again in

225
00:09:18,230 --> 00:09:15,920
space so everything's

226
00:09:20,470 --> 00:09:18,240
no issues i'm cleared to fly

227
00:09:22,150 --> 00:09:20,480
worth the wait i assume yeah well i

228
00:09:23,829 --> 00:09:22,160
would have rather gone sooner but i'll

229
00:09:25,670 --> 00:09:23,839
deal with it

230
00:09:26,790 --> 00:09:25,680
that's true that's true so it was worth

231
00:09:29,030 --> 00:09:26,800
the wait

232
00:09:31,509 --> 00:09:29,040
all right do you know

233
00:09:34,829 --> 00:09:33,150
what advice has they given to you about

234
00:09:37,910 --> 00:09:34,839
what to

235
00:09:39,350 --> 00:09:37,920
expect they give me lots of advice and i

236
00:09:41,190 --> 00:09:39,360
like to listen to them because obviously

237
00:09:43,829 --> 00:09:41,200
they've been there i mean peggy has

238
00:09:45,910 --> 00:09:43,839

built the space station by herself and

239
00:09:48,230 --> 00:09:45,920
and all i guess helped a little bit too

240
00:09:49,750 --> 00:09:48,240
so um so no they're full of advice but

241
00:09:51,590 --> 00:09:49,760
it's it's not as it's not like we have

242
00:09:52,389 --> 00:09:51,600
long conversations but it's just during

243
00:09:54,389 --> 00:09:52,399
the

244
00:09:56,389 --> 00:09:54,399
our daily activities during training

245
00:09:58,550 --> 00:09:56,399
peggy's gonna say look and this one on

246
00:10:00,230 --> 00:09:58,560
station is gonna be more like this okay

247
00:10:01,829 --> 00:10:00,240
so point taken and now and all that

248
00:10:04,790 --> 00:10:01,839
gonna sue you is gonna have some advice

249
00:10:08,069 --> 00:10:04,800
as well so so it's um it's really a long

250
00:10:09,190 --> 00:10:08,079
process for me uh to learn from these

251
00:10:11,670 --> 00:10:09,200
two guys

252
00:10:14,710 --> 00:10:11,680
um and i think we're in good shape now

253
00:10:16,710 --> 00:10:14,720
um it's gonna be exciting and uh i hope

254
00:10:18,870 --> 00:10:16,720
i haven't forgotten anything in my in my

255
00:10:22,150 --> 00:10:18,880
suitcase for that for that big upcoming

256
00:10:27,190 --> 00:10:22,160
trip but i think we'll be in good shape

257
00:10:30,829 --> 00:10:28,870
he said anytime they planned something

258
00:10:33,509 --> 00:10:30,839
they factored in what he called peggy

259
00:10:35,269 --> 00:10:33,519
factor because you were so efficient and

260
00:10:37,350 --> 00:10:35,279
you worked so much faster than they

261
00:10:40,470 --> 00:10:37,360
planned how hard is it to live up to

262
00:10:43,910 --> 00:10:41,910
well i don't know i'm hoping i'll be

263
00:10:45,990 --> 00:10:43,920

able to live up to it

264
00:10:49,750 --> 00:10:46,000
i'm looking forward to it the the ground

265
00:10:51,990 --> 00:10:49,760
teams uh have uh got lots of reserve

266
00:10:53,910 --> 00:10:52,000
science for me to do in case i am a

267
00:10:56,310 --> 00:10:53,920
little ahead and uh

268
00:10:59,990 --> 00:10:56,320
so i'm looking forward to trying to live

269
00:11:04,470 --> 00:11:02,470
all right uh kevin back in the back

270
00:11:07,350 --> 00:11:04,480
kevin quinn from channel 13 here in

271
00:11:09,430 --> 00:11:07,360
houston for peggy whitson so uh can you

272
00:11:11,750 --> 00:11:09,440
clarify please this this record that you

273
00:11:14,150 --> 00:11:11,760
were supposed to break

274
00:11:16,870 --> 00:11:14,160
um are you still breaking it and if not

275
00:11:18,790 --> 00:11:16,880
what is your take on being just a couple

276
00:11:22,069 --> 00:11:18,800
days short

277
00:11:25,509 --> 00:11:22,079
well um the record was the total time in

278
00:11:28,389 --> 00:11:25,519
space for a u.s crew member so jeff when

279
00:11:29,829 --> 00:11:28,399
he lands later this week will set that

280
00:11:31,110 --> 00:11:29,839
record

281
00:11:33,110 --> 00:11:31,120
and

282
00:11:35,590 --> 00:11:33,120
the original schedule was such that we

283
00:11:37,430 --> 00:11:35,600
thought i might break the record as well

284
00:11:39,509 --> 00:11:37,440
that's not going to happen

285
00:11:41,269 --> 00:11:39,519
i won't break his record because i'll be

286
00:11:43,590 --> 00:11:41,279
a couple of days short

287
00:11:45,670 --> 00:11:43,600
so it's not a big deal i still get to

288
00:11:50,230 --> 00:11:45,680

fly in space it's going to be a great

289
00:11:54,870 --> 00:11:52,870
yeah but it's not about an individual

290
00:11:57,110 --> 00:11:54,880
you know we we do what we need to for

291
00:11:58,870 --> 00:11:57,120
the program and what makes the mission a

292
00:12:00,470 --> 00:11:58,880
success

293
00:12:01,829 --> 00:12:00,480
probably wouldn't rather rather stay in

294
00:12:03,430 --> 00:12:01,839
space even if it didn't have anything to

295
00:12:04,310 --> 00:12:03,440
do with the record exactly

296
00:12:05,670 --> 00:12:04,320
exactly

297
00:12:08,069 --> 00:12:05,680
and i should clarify real quick i think

298
00:12:10,069 --> 00:12:08,079
i misspoke earlier i said peggy already

299
00:12:12,550 --> 00:12:10,079
had 376 days in space but it should have

300
00:12:15,350 --> 00:12:12,560
been 377. so

301
00:12:17,190 --> 00:12:15,360
all right um i think we also have some

302
00:12:18,470 --> 00:12:17,200
students here in the room from 4-h who

303
00:12:19,670 --> 00:12:18,480
are going to have some questions for us

304
00:12:26,710 --> 00:12:19,680
why don't we start here in the front why

305
00:12:30,550 --> 00:12:28,949
what advice do you have for girls

306
00:12:32,470 --> 00:12:30,560
interested in

307
00:12:34,310 --> 00:12:32,480
stem careers

308
00:12:35,350 --> 00:12:34,320
well that's a great question i think

309
00:12:36,470 --> 00:12:35,360
that

310
00:12:40,389 --> 00:12:36,480
young people

311
00:12:44,310 --> 00:12:40,399
should be pursuing careers in science

312
00:12:46,790 --> 00:12:44,320
technology engineering and math i think

313
00:12:48,790 --> 00:12:46,800

maybe it's not necessarily expected of

314
00:12:51,670 --> 00:12:48,800
you and so i think for young ladies

315
00:12:53,750 --> 00:12:51,680
especially it's important to pursue your

316
00:12:55,750 --> 00:12:53,760
goal no matter what because you never

317
00:12:57,829 --> 00:12:55,760
know where you can end up i am totally

318
00:13:00,710 --> 00:12:57,839
surprised

319
00:13:02,790 --> 00:13:00,720
so if you have an interest in any field

320
00:13:05,670 --> 00:13:02,800
and science or math you know find the

321
00:13:07,990 --> 00:13:05,680
one that interests you pursue it and

322
00:13:10,230 --> 00:13:08,000
yeah you might not have a lot of other

323
00:13:12,870 --> 00:13:10,240
ladies around you but if you do it and

324
00:13:15,110 --> 00:13:12,880
the next generation does it we will we

325
00:13:16,710 --> 00:13:15,120
will become equal in it and it won't be

326
00:13:19,430 --> 00:13:16,720
a question about whether or not you're

327
00:13:21,509 --> 00:13:20,470
good female

328
00:13:23,590 --> 00:13:21,519
go ahead

329
00:13:25,910 --> 00:13:23,600
as it relates to uh my name is fatima

330
00:13:27,990 --> 00:13:25,920
flores from dallas county 4-h as it

331
00:13:30,790 --> 00:13:28,000
relates to career opportunities what

332
00:13:32,230 --> 00:13:30,800
type of scientists does nasa need

333
00:13:35,350 --> 00:13:32,240
that's a great question we're doing a

334
00:13:38,150 --> 00:13:35,360
selection right now for astronauts and

335
00:13:39,350 --> 00:13:38,160
we have all kinds of scientists

336
00:13:41,590 --> 00:13:39,360
about

337
00:13:44,150 --> 00:13:41,600
40 percent of the astronauts that end up

338
00:13:45,990 --> 00:13:44,160

getting getting selected or military and

339
00:13:48,470 --> 00:13:46,000
have aerospace engineering or other

340
00:13:51,030 --> 00:13:48,480
types of engineering backgrounds and

341
00:13:53,910 --> 00:13:51,040
then for the non-military group of

342
00:13:54,710 --> 00:13:53,920
people we have scientists in every field

343
00:13:57,590 --> 00:13:54,720
so

344
00:14:00,069 --> 00:13:57,600
every field of math physics

345
00:14:02,710 --> 00:14:00,079
any kind of science that you can think

346
00:14:04,550 --> 00:14:02,720
of biology chemistry

347
00:14:06,710 --> 00:14:04,560
and then all types of engineers

348
00:14:08,949 --> 00:14:06,720
electrical mechanical

349
00:14:11,269 --> 00:14:08,959
everything that you would imagine and

350
00:14:14,629 --> 00:14:11,279
and we will pick the astronauts the

351
00:14:16,629 --> 00:14:14,639
people that have the expertise in

352
00:14:18,949 --> 00:14:16,639
whatever scientific

353
00:14:21,829 --> 00:14:18,959
excuse me scientific field that they

354
00:14:23,910 --> 00:14:21,839
possess but we also want people that can

355
00:14:26,550 --> 00:14:23,920
work on small teams it's great when you

356
00:14:28,790 --> 00:14:26,560
can work together as a team like we do

357
00:14:31,269 --> 00:14:28,800
and make something happen and and

358
00:14:33,189 --> 00:14:31,279
everybody's background and experience

359
00:14:35,750 --> 00:14:33,199
contributes and makes the team as a

360
00:14:37,910 --> 00:14:35,760
whole much stronger and so i hope you

361
00:14:38,790 --> 00:14:37,920
strived for that

362
00:14:40,550 --> 00:14:38,800
all right

363
00:14:43,030 --> 00:14:40,560

did you have questions

364
00:14:45,189 --> 00:14:43,040
um hi all of you welcome and i guess my

365
00:14:47,189 --> 00:14:45,199
question was um frank gorman back in

366
00:14:49,590 --> 00:14:47,199
1968 he wrote beautifully i think he

367
00:14:51,670 --> 00:14:49,600
spoke amazing about what it looks like

368
00:14:53,990 --> 00:14:51,680
leon's base looking back at here here we

369
00:14:55,990 --> 00:14:54,000
have a beautiful show solidarity russia

370
00:14:57,670 --> 00:14:56,000
france and the united states of course

371
00:14:59,269 --> 00:14:57,680
what's it like being in space looking

372
00:15:00,629 --> 00:14:59,279
back at iraq when you think about all

373
00:15:02,710 --> 00:15:00,639
the material

374
00:15:04,150 --> 00:15:02,720
nationalistic differences in the wars

375
00:15:05,590 --> 00:15:04,160
that were fighting the earth what's it

376
00:15:07,590 --> 00:15:05,600
like looking back

377
00:15:10,550 --> 00:15:07,600
at the earth in this mission in this

378
00:15:12,710 --> 00:15:10,560
beautiful short solidarity

379
00:15:14,310 --> 00:15:12,720
i think the international space station

380
00:15:17,030 --> 00:15:14,320
the legacy is going to be the

381
00:15:18,949 --> 00:15:17,040
international partnership uh we have

382
00:15:21,750 --> 00:15:18,959
built something in low earth orbit

383
00:15:24,870 --> 00:15:21,760
traveling at 17 500 miles an hour it was

384
00:15:27,269 --> 00:15:24,880
not technically an easy thing to do but

385
00:15:28,949 --> 00:15:27,279
we did it internationally we pieces of

386
00:15:32,069 --> 00:15:28,959
hardware from all over the world were

387
00:15:34,550 --> 00:15:32,079
constructed in low earth orbit

388
00:15:36,470 --> 00:15:34,560

and to me it's actually miraculous that

389
00:15:38,470 --> 00:15:36,480
we didn't have a lot more problems than

390
00:15:40,230 --> 00:15:38,480
we did in that whole process

391
00:15:43,110 --> 00:15:40,240
but i think that looking back at the

392
00:15:45,509 --> 00:15:43,120
earth uh it's very obvious as you look

393
00:15:49,590 --> 00:15:45,519
back this is one planet

394
00:15:49,600 --> 00:16:06,069
all right

395
00:16:10,710 --> 00:16:07,990
i think one investigation that's

396
00:16:13,269 --> 00:16:10,720
actually coming up uh during our flight

397
00:16:15,509 --> 00:16:13,279
is that it's called nicer i'm really bad

398
00:16:17,110 --> 00:16:15,519
with nasa has lots of acronyms it's a

399
00:16:19,749 --> 00:16:17,120
neutron star

400
00:16:22,470 --> 00:16:19,759
internal uh composition explorer or

401
00:16:24,389 --> 00:16:22,480
something like that good job

402
00:16:26,710 --> 00:16:24,399
but what it's it's actually a very cool

403
00:16:28,550 --> 00:16:26,720
investigation looking at

404
00:16:30,629 --> 00:16:28,560
neutron stars which are the result of

405
00:16:31,430 --> 00:16:30,639
supernovas

406
00:16:33,430 --> 00:16:31,440
that

407
00:16:35,269 --> 00:16:33,440
happen to stars and then

408
00:16:37,189 --> 00:16:35,279
the scientists want to look at those

409
00:16:39,110 --> 00:16:37,199
stars but because the x-rays don't make

410
00:16:40,710 --> 00:16:39,120
it through our earth's magnetic field we

411
00:16:41,749 --> 00:16:40,720
can't study it and examine it on the

412
00:16:42,790 --> 00:16:41,759
ground

413
00:16:46,230 --> 00:16:42,800

so the

414
00:16:49,350 --> 00:16:46,240
platform for for making these

415
00:16:50,790 --> 00:16:49,360
observations but i think a really neat

416
00:16:53,189 --> 00:16:50,800
side effect of that is they're also

417
00:16:56,069 --> 00:16:53,199
doing a technology demonstration

418
00:16:57,269 --> 00:16:56,079
uh trying to develop a space navigation

419
00:16:59,269 --> 00:16:57,279
system

420
00:17:01,269 --> 00:16:59,279
and using the x-rays because they are

421
00:17:04,390 --> 00:17:01,279
very uh

422
00:17:07,510 --> 00:17:04,400
continuous and and have an a very

423
00:17:09,669 --> 00:17:07,520
continuous periodicity that allows the

424
00:17:11,669 --> 00:17:09,679
them to potentially develop a space

425
00:17:13,909 --> 00:17:11,679
navigation system looking at neutron

426
00:17:16,630 --> 00:17:13,919
stars all around us throughout the

427
00:17:19,750 --> 00:17:16,640
galaxy and that could be proved to be

428
00:17:21,990 --> 00:17:19,760
space navigation just like we have gps

429
00:17:24,549 --> 00:17:22,000
satellites around the earth well once we

430
00:17:27,829 --> 00:17:24,559
leave earth we don't have gps anymore so

431
00:17:30,390 --> 00:17:27,839
this would be the next level of our gps

432
00:17:33,029 --> 00:17:30,400
system except it's going to be at a much

433
00:17:34,630 --> 00:17:33,039
bigger scale pretty cool

434
00:17:35,909 --> 00:17:34,640
all right we're gonna take a couple more

435
00:17:37,510 --> 00:17:35,919
questions from students but just a

436
00:17:38,870 --> 00:17:37,520
reminder real quick that if you were on

437
00:17:41,110 --> 00:17:38,880
the phone bridge and have a question

438
00:17:43,350 --> 00:17:41,120

press star one to get that question

439
00:17:45,669 --> 00:17:43,360
entered in and also be sending your

440
00:17:46,950 --> 00:17:45,679
questions in on social media using the

441
00:17:48,630 --> 00:17:46,960
ask nasa

442
00:17:49,990 --> 00:17:48,640
all right how about right there kind of

443
00:17:51,990 --> 00:17:50,000
in the middle

444
00:17:54,390 --> 00:17:52,000
yes

445
00:17:57,029 --> 00:17:54,400
what were some fears

446
00:17:58,830 --> 00:17:57,039
that you had overcome

447
00:18:02,710 --> 00:17:58,840
some fears that i had to

448
00:18:04,390 --> 00:18:02,720
overcome for me i think

449
00:18:08,150 --> 00:18:04,400
the fear of the russian language

450
00:18:13,350 --> 00:18:10,630
it actually was very difficult for me to

451
00:18:16,230 --> 00:18:13,360
learn the russian language

452
00:18:19,510 --> 00:18:16,240
but i think uh for i

453
00:18:22,630 --> 00:18:19,520
i was a biochemist uh coming into a very

454
00:18:25,110 --> 00:18:22,640
engineering oriented field and so

455
00:18:27,430 --> 00:18:25,120
learning all the new other fields that

456
00:18:31,029 --> 00:18:27,440
are required to be successful as an

457
00:18:33,909 --> 00:18:31,039
astronaut was uh very scary for me

458
00:18:36,150 --> 00:18:33,919
and i just had to keep trying and study

459
00:18:37,029 --> 00:18:36,160
harder and and keep pushing to learn

460
00:18:38,390 --> 00:18:37,039
more

461
00:18:40,789 --> 00:18:38,400
i don't know tomah what were some of

462
00:18:42,470 --> 00:18:40,799
your fears yeah i think i think

463
00:18:44,870 --> 00:18:42,480

so one one distinction you have to make

464
00:18:48,310 --> 00:18:44,880
is that courage is not

465
00:18:50,230 --> 00:18:48,320
not experiencing fear it's natural to to

466
00:18:52,150 --> 00:18:50,240
fear to be afraid if you're not afraid

467
00:18:53,350 --> 00:18:52,160
it doesn't mean you're brave it means

468
00:18:54,789 --> 00:18:53,360
you're crazy

469
00:18:57,270 --> 00:18:54,799
so um

470
00:18:59,350 --> 00:18:57,280
so courage is all about

471
00:19:01,830 --> 00:18:59,360
realizing your fears and then trying to

472
00:19:04,070 --> 00:19:01,840
overcome them and it's natural to be

473
00:19:06,150 --> 00:19:04,080
afraid the day i'll climb on the rocket

474
00:19:07,190 --> 00:19:06,160
i'll be a little bit afraid to be honest

475
00:19:09,909 --> 00:19:07,200
because

476
00:19:12,710 --> 00:19:09,919
it is scary so it's all about courage is

477
00:19:15,190 --> 00:19:12,720
all about realizing that and still going

478
00:19:17,590 --> 00:19:15,200
so if you can do this in your life

479
00:19:19,510 --> 00:19:17,600
then then you're the bravest man i know

480
00:19:21,510 --> 00:19:19,520
because that's what it's all about it's

481
00:19:23,430 --> 00:19:21,520
it's all about still trying even though

482
00:19:26,630 --> 00:19:23,440
you're afraid that's what matters i

483
00:19:30,950 --> 00:19:28,470
okay one more here

484
00:19:32,630 --> 00:19:30,960
hello my name is jocelyn merlo and i

485
00:19:34,710 --> 00:19:32,640
wanted to ask that

486
00:19:36,470 --> 00:19:34,720
what was most difficult about returning

487
00:19:40,150 --> 00:19:36,480
home

488
00:19:42,390 --> 00:19:40,160

well it's very hard to leave space

489
00:19:46,070 --> 00:19:42,400
station because it's such a fantastic

490
00:19:47,750 --> 00:19:46,080
home has a phenomenal view best view

491
00:19:48,950 --> 00:19:47,760
ever

492
00:19:50,950 --> 00:19:48,960
but

493
00:19:52,950 --> 00:19:50,960
we actually also have physiological

494
00:19:54,150 --> 00:19:52,960
changes so our bodies change while we're

495
00:19:57,430 --> 00:19:54,160
in space

496
00:19:59,909 --> 00:19:57,440
and coming home we have to re-adapt to

497
00:20:01,590 --> 00:19:59,919
gravity again so we've been floating

498
00:20:03,350 --> 00:20:01,600
around and moving through the station

499
00:20:05,510 --> 00:20:03,360
for six months at a time and you know

500
00:20:06,549 --> 00:20:05,520
the most i have to do is push like this

501
00:20:08,789 --> 00:20:06,559
to move

502
00:20:11,270 --> 00:20:08,799
across the module and so we have to do

503
00:20:14,630 --> 00:20:11,280
exercise and do all these things to try

504
00:20:16,870 --> 00:20:14,640
and prevent the the ill effects of space

505
00:20:18,230 --> 00:20:16,880
flight so that we can come back strong

506
00:20:21,270 --> 00:20:18,240
and be healthy

507
00:20:23,110 --> 00:20:21,280
but for me that first 24 hours is just

508
00:20:25,909 --> 00:20:23,120
not very pleasant

509
00:20:27,350 --> 00:20:25,919
i was going around the earth at 17 500

510
00:20:29,909 --> 00:20:27,360
miles an hour and then all of a sudden

511
00:20:31,430 --> 00:20:29,919
the earth's going around me at 17 500

512
00:20:33,350 --> 00:20:31,440
miles an hour

513
00:20:35,270 --> 00:20:33,360

so it's it's very disruptive to the

514
00:20:37,990 --> 00:20:35,280
neural vestibular system for some people

515
00:20:41,350 --> 00:20:38,000
for me it is and so it takes a little

516
00:20:43,270 --> 00:20:41,360
time to adapt but if you keep exercising

517
00:20:45,669 --> 00:20:43,280
and pressure you know pushing yourself

518
00:20:47,669 --> 00:20:45,679
your body remembers finally

519
00:20:52,070 --> 00:20:47,679
oh yes you're back on earth

520
00:20:53,750 --> 00:20:52,080
poor poor poor gal you have to go on

521
00:20:55,510 --> 00:20:53,760
all right why don't we take a break now

522
00:20:57,590 --> 00:20:55,520
and take some questions from the foam

523
00:21:00,630 --> 00:20:57,600
bridge i believe we've got space.com

524
00:21:06,470 --> 00:21:02,549
mrs wonderling your line is open

525
00:21:06,480 --> 00:21:12,149
space.com

526
00:21:16,950 --> 00:21:14,950
okay uh so why don't we take a break now

527
00:21:19,430 --> 00:21:16,960
instead and get some questions from

528
00:21:21,990 --> 00:21:19,440
social media do we have anything yeah so

529
00:21:24,149 --> 00:21:22,000
we have a great one from ben on twitter

530
00:21:26,470 --> 00:21:24,159
and he's wondering are you flying a six

531
00:21:27,830 --> 00:21:26,480
hour or a two-day rendezvous and can you

532
00:21:42,549 --> 00:21:27,840
talk about some of the tests you're

533
00:21:42,559 --> 00:22:22,870
foreign

534
00:22:27,510 --> 00:22:24,549
so in terms of

535
00:22:29,190 --> 00:22:27,520
the faster rendezvous docking profile

536
00:22:30,950 --> 00:22:29,200
this is going to be the first time for

537
00:22:33,590 --> 00:22:30,960
me and i hope this uh

538
00:22:36,230 --> 00:22:33,600

plan holds as for the new vehicle we are

539
00:22:38,070 --> 00:22:36,240
going to finish the testing out of the

540
00:22:39,510 --> 00:22:38,080
new service vehicle in real time

541
00:22:42,070 --> 00:22:39,520
conditions

542
00:22:43,990 --> 00:22:42,080
we're going to finish the testing of the

543
00:22:46,149 --> 00:22:44,000
radio control system there have been

544
00:22:48,230 --> 00:22:46,159
some upgrades to the propulsion system

545
00:22:50,710 --> 00:22:48,240
has become more reliable or the

546
00:22:53,190 --> 00:22:50,720
navigation system has been upgraded and

547
00:22:55,830 --> 00:22:53,200
we're going to finish the tests and i'm

548
00:22:59,270 --> 00:22:55,840
sure they will go great and

549
00:23:00,870 --> 00:22:59,280
the mission will be fully accomplished

550
00:23:02,710 --> 00:23:00,880
okay

551
00:23:04,710 --> 00:23:02,720
so we have another uh somewhat related

552
00:23:06,470 --> 00:23:04,720
one from peter on twitter and he's

553
00:23:08,870 --> 00:23:06,480
wondering what will be the first thing

554
00:23:12,310 --> 00:23:08,880
the crew does after they've finished the

555
00:23:14,630 --> 00:23:12,320
phone calls to family on board

556
00:23:15,510 --> 00:23:14,640
actually usually on board they schedule

557
00:23:17,110 --> 00:23:15,520
the

558
00:23:19,350 --> 00:23:17,120
safety briefing

559
00:23:20,789 --> 00:23:19,360
and the crew the experienced crew the

560
00:23:22,710 --> 00:23:20,799
crew that's up there the crew of three

561
00:23:25,430 --> 00:23:22,720
that's been there for several months

562
00:23:27,510 --> 00:23:25,440
will take our crew around and make sure

563
00:23:29,430 --> 00:23:27,520

that you know we do training of course

564
00:23:31,750 --> 00:23:29,440
here on the ground to prepare safety

565
00:23:33,430 --> 00:23:31,760
wise but we will be

566
00:23:35,430 --> 00:23:33,440
going through the station and yes

567
00:23:37,190 --> 00:23:35,440
finding it exactly where it is and what

568
00:23:39,430 --> 00:23:37,200
does it look like when you're in space

569
00:23:41,669 --> 00:23:39,440
and floating in different orientations

570
00:23:43,430 --> 00:23:41,679
just to see and touch where everything

571
00:23:44,870 --> 00:23:43,440
all the safety hardware is that's the

572
00:23:48,630 --> 00:23:44,880
first thing that we try and do when we

573
00:23:53,110 --> 00:23:51,029
and we have one more um

574
00:23:56,710 --> 00:23:53,120
that uh is probably good for anyone to

575
00:23:58,070 --> 00:23:56,720
answer and sadie on twitter is asking um

576
00:24:01,990 --> 00:23:58,080
what types of experiments are you

577
00:24:06,470 --> 00:24:03,430
like peggy said there's a range of i

578
00:24:09,269 --> 00:24:06,480
think more than 300 experiments uh over

579
00:24:11,909 --> 00:24:09,279
a six months mission so it's uh it's uh

580
00:24:14,470 --> 00:24:11,919
it's hard to pick just a few one but uh

581
00:24:16,870 --> 00:24:14,480
some of the most exciting we're doing

582
00:24:18,950 --> 00:24:16,880
now are deal with stem cells which is a

583
00:24:21,350 --> 00:24:18,960
completely new area of research on board

584
00:24:23,830 --> 00:24:21,360
the space station uh dna sequencing has

585
00:24:25,750 --> 00:24:23,840
just started with kate rubins a few

586
00:24:27,669 --> 00:24:25,760
weeks ago just this weekend just this

587
00:24:30,070 --> 00:24:27,679
week so there's all kinds of exciting

588
00:24:31,830 --> 00:24:30,080

research um i don't i don't like to

589
00:24:33,909 --> 00:24:31,840
focus on one particular experiment but i

590
00:24:36,630 --> 00:24:33,919
like to i like to dedicate more

591
00:24:38,390 --> 00:24:36,640
attention to the ones that have

592
00:24:40,950 --> 00:24:38,400
clear spin-offs to the ground because

593
00:24:42,710 --> 00:24:40,960
we're doing space research uh to further

594
00:24:44,950 --> 00:24:42,720
our presence into space but we're also

595
00:24:46,870 --> 00:24:44,960
doing research on onboard the iss to

596
00:24:48,789 --> 00:24:46,880
benefit directly the earth

597
00:24:50,470 --> 00:24:48,799
using the proprieties of the space

598
00:24:52,710 --> 00:24:50,480
environment to

599
00:24:55,590 --> 00:24:52,720
find new advances and discoveries that

600
00:24:57,269 --> 00:24:55,600
wouldn't be possible on earth so i guess

601
00:24:58,630 --> 00:24:57,279
that's that's not just one field of

602
00:25:02,230 --> 00:24:58,640
research that that's better than the

603
00:25:03,990 --> 00:25:02,240
other but it's all about making space

604
00:25:05,830 --> 00:25:04,000
useful for us and that's what matters

605
00:25:07,029 --> 00:25:05,840
for us

606
00:25:08,390 --> 00:25:07,039
okay

607
00:25:11,110 --> 00:25:08,400
all right

608
00:25:12,710 --> 00:25:11,120
just a reminder if you have a question

609
00:25:14,310 --> 00:25:12,720
on the phone bridge you can press star

610
00:25:23,269 --> 00:25:14,320
one to answer that question and we're

611
00:25:23,279 --> 00:25:28,070
this watering your line is open

612
00:25:32,630 --> 00:25:29,830
so my name is hanukkah whitering from

613
00:25:35,269 --> 00:25:32,640

space.com and this question is for peggy

614
00:25:37,830 --> 00:25:35,279
and oleg i'm wondering

615
00:25:39,909 --> 00:25:37,840
why you decided to return to the space

616
00:25:41,750 --> 00:25:39,919
station and also if there's anything

617
00:25:43,510 --> 00:25:41,760
that you would like to do while you're

618
00:25:45,909 --> 00:25:43,520
there that you have not been able to do

619
00:25:50,549 --> 00:25:47,830
well i um

620
00:25:52,710 --> 00:25:50,559
the why is i have never had um any part

621
00:25:54,070 --> 00:25:52,720
of my job i love working at nasa but the

622
00:25:56,549 --> 00:25:54,080
the part that has been the most

623
00:25:58,710 --> 00:25:56,559
satisfying on a day-to-day basis hour to

624
00:26:00,230 --> 00:25:58,720
hour minute to minute has been working

625
00:26:02,149 --> 00:26:00,240
on board the space station it doesn't

626
00:26:03,830 --> 00:26:02,159
matter if i'm cleaning the filters i

627
00:26:05,510 --> 00:26:03,840
feel like i'm helping

628
00:26:08,870 --> 00:26:05,520
personally

629
00:26:10,630 --> 00:26:08,880
push forward exploration and so i'm i

630
00:26:12,950 --> 00:26:10,640
have that satisfaction

631
00:26:15,110 --> 00:26:12,960
that i don't from any any job here even

632
00:26:16,390 --> 00:26:15,120
on the ground and so that's the why i

633
00:26:18,070 --> 00:26:16,400
want to go again

634
00:26:20,310 --> 00:26:18,080
and the thing i'm looking forward to

635
00:26:22,070 --> 00:26:20,320
doing the most is actually the the

636
00:26:23,510 --> 00:26:22,080
cupola window was not up there when i

637
00:26:25,669 --> 00:26:23,520
was there before and i think that is

638
00:26:27,430 --> 00:26:25,679

going to be a phenomenal view so i plan

639
00:27:19,430 --> 00:26:27,440
on hanging out in the cupola window

640
00:27:24,230 --> 00:27:21,990
so why do i want to come back to space

641
00:27:27,350 --> 00:27:24,240
actually the profession of a cosmonaut

642
00:27:29,590 --> 00:27:27,360
or nest note is quite a rare one and the

643
00:27:32,149 --> 00:27:29,600
flight is the pinnacle of training out

644
00:27:34,549 --> 00:27:32,159
of the preparation yes we do talk to

645
00:27:35,990 --> 00:27:34,559
kids we do work with scientists but

646
00:27:39,350 --> 00:27:36,000
going to space

647
00:27:42,149 --> 00:27:39,360
means that this is the final stage of

648
00:27:44,470 --> 00:27:42,159
our work is this is the utmost

649
00:27:47,590 --> 00:27:44,480
achievement that we can have

650
00:27:49,830 --> 00:27:47,600
given that russian science allows us to

651
00:27:51,029 --> 00:27:49,840
be busy 24 7.

652
00:27:53,029 --> 00:27:51,039
we can

653
00:27:55,990 --> 00:27:53,039
by being in space

654
00:27:58,389 --> 00:27:56,000
affirm the and realize all of the hopes

655
00:28:01,110 --> 00:27:58,399
that the scientists the designers the

656
00:28:02,630 --> 00:28:01,120
structure specialists anybody had for us

657
00:28:07,830 --> 00:28:02,640
in terms of

658
00:28:11,350 --> 00:28:08,950
okay

659
00:28:13,269 --> 00:28:11,360
um i believe we also have uh been

660
00:28:14,950 --> 00:28:13,279
collecting or issa has been collecting

661
00:28:16,710 --> 00:28:14,960
questions from social media themselves

662
00:28:22,070 --> 00:28:16,720
and we have jules grandsire i think

663
00:28:26,149 --> 00:28:24,230

hi brandi stills from the european space

664
00:28:28,230 --> 00:28:26,159
agency public affairs and yes we've been

665
00:28:30,630 --> 00:28:28,240
uh collecting indeed a lot of questions

666
00:28:31,590 --> 00:28:30,640
through our social media from from issa

667
00:28:33,590 --> 00:28:31,600
all day

668
00:28:36,549 --> 00:28:33,600
and uh we have for example this question

669
00:28:38,549 --> 00:28:36,559
we received on instagram uh from calm

670
00:28:41,510 --> 00:28:38,559
kirkaleib13

671
00:28:42,870 --> 00:28:41,520
that's for thomas and thomas he wonders

672
00:28:45,669 --> 00:28:42,880
when did you

673
00:28:48,789 --> 00:28:45,679
decide to become an astronaut

674
00:28:50,549 --> 00:28:48,799
that's a great question i i decided well

675
00:28:51,750 --> 00:28:50,559
i wanted to become an astronaut since i

676
00:28:53,029 --> 00:28:51,760
was a kid

677
00:28:55,269 --> 00:28:53,039
except i didn't know it was something

678
00:28:57,590 --> 00:28:55,279
you could do in your life i mean you can

679
00:29:00,710 --> 00:28:57,600
see astronauts on tv but how do you

680
00:29:03,029 --> 00:29:00,720
become an astronaut i had no idea

681
00:29:05,350 --> 00:29:03,039
so but i started

682
00:29:08,549 --> 00:29:05,360
doing the things i liked which were

683
00:29:11,590 --> 00:29:08,559
studying signs doing sports

684
00:29:12,950 --> 00:29:11,600
learning foreign languages traveling um

685
00:29:15,510 --> 00:29:12,960
and then i became an engineer and then i

686
00:29:18,230 --> 00:29:15,520
became a pilot and suddenly i realized

687
00:29:20,630 --> 00:29:18,240
that it put me in a great position to

688
00:29:22,149 --> 00:29:20,640

fulfill my dreams um

689
00:29:25,110 --> 00:29:22,159
and it's it's what this election is all

690
00:29:28,230 --> 00:29:25,120
about they're going to try to make

691
00:29:29,990 --> 00:29:28,240
the people match what the position needs

692
00:29:31,590 --> 00:29:30,000
and we're going to be looking for people

693
00:29:33,430 --> 00:29:31,600
who love science people who are

694
00:29:35,750 --> 00:29:33,440
comfortable in a technical environment

695
00:29:36,789 --> 00:29:35,760
people who want to explore people who

696
00:29:39,830 --> 00:29:36,799
like to

697
00:29:42,230 --> 00:29:39,840
to exercise regularly

698
00:29:44,389 --> 00:29:42,240
hard-working or charging people

699
00:29:46,149 --> 00:29:44,399
so actually i i realized i could become

700
00:29:47,669 --> 00:29:46,159
a national not only very late we don't

701
00:29:49,750 --> 00:29:47,679
have that many selections in europe

702
00:29:51,830 --> 00:29:49,760
unfortunately it's like one selection

703
00:29:54,389 --> 00:29:51,840
every 15 years so i was lucky enough to

704
00:29:57,110 --> 00:29:54,399
be at the right place at the right time

705
00:29:59,029 --> 00:29:57,120
and i decided to to try because again

706
00:30:00,710 --> 00:29:59,039
that's what you should do in life

707
00:30:02,789 --> 00:30:00,720
you should try it doesn't matter if you

708
00:30:04,870 --> 00:30:02,799
if you fail as long as you do your best

709
00:30:06,710 --> 00:30:04,880
but the worst that can possibly happen

710
00:30:08,789 --> 00:30:06,720
is if you don't try

711
00:30:11,350 --> 00:30:08,799
we have many opportunities i think in

712
00:30:14,549 --> 00:30:11,360
europe in the us in russia

713
00:30:16,149 --> 00:30:14,559

so if we don't seize them if we don't

714
00:30:18,310 --> 00:30:16,159
make the most of what we're being

715
00:30:19,990 --> 00:30:18,320
offered then i think we're missing out

716
00:30:21,750 --> 00:30:20,000
and that's that's what i tried to do in

717
00:30:23,750 --> 00:30:21,760
my life i tried to to make the most of

718
00:30:26,070 --> 00:30:23,760
everything i'm being offered and it

719
00:30:30,950 --> 00:30:26,080
worked fine for me so i can't see why it

720
00:30:35,110 --> 00:30:32,870
jules did you have another talking about

721
00:30:36,870 --> 00:30:35,120
making the most we have another question

722
00:30:40,070 --> 00:30:36,880
uh from from facebook this time from

723
00:30:42,310 --> 00:30:40,080
christoph house he's asking what major

724
00:30:44,389 --> 00:30:42,320
innovation or experiment will you be uh

725
00:30:46,230 --> 00:30:44,399
testing during your flight so much we

726
00:30:48,389 --> 00:30:46,240
heard about catmos for example is there

727
00:30:50,230 --> 00:30:48,399
anything you can you can name here yeah

728
00:30:53,029 --> 00:30:50,240
yeah absolutely we have uh so we we

729
00:30:55,510 --> 00:30:53,039
talked about uh science and research uh

730
00:30:57,430 --> 00:30:55,520
which is uh obviously a big part of what

731
00:30:59,830 --> 00:30:57,440
we're doing we're also doing uh

732
00:31:01,350 --> 00:30:59,840
technology experiments uh and lots of

733
00:31:03,590 --> 00:31:01,360
them are being controlled from from

734
00:31:04,950 --> 00:31:03,600
catalyst into those uh so we're going to

735
00:31:09,909 --> 00:31:04,960
test

736
00:31:12,389 --> 00:31:09,919
of sampling the water on board the space

737
00:31:15,029 --> 00:31:12,399
station and it's a very new technology

738
00:31:17,269 --> 00:31:15,039

in cooperation with uh with a very big

739
00:31:18,789 --> 00:31:17,279
pharmaceutical group in france and if it

740
00:31:20,789 --> 00:31:18,799
if this is successful it could be

741
00:31:22,310 --> 00:31:20,799
applied in developing countries because

742
00:31:24,310 --> 00:31:22,320
it's very portable

743
00:31:26,470 --> 00:31:24,320
and it's very easy to do we're going to

744
00:31:29,750 --> 00:31:26,480
have experiments looking at

745
00:31:32,149 --> 00:31:29,760
fuel in spherical tanks inside the iss

746
00:31:34,230 --> 00:31:32,159
and this is a model for satellites

747
00:31:36,470 --> 00:31:34,240
except we'll be able to access of course

748
00:31:37,990 --> 00:31:36,480
inside the modules those tanks and we'll

749
00:31:40,149 --> 00:31:38,000
be able to interact with them in these

750
00:31:42,950 --> 00:31:40,159
experiments called fluidics so there's a

751
00:31:46,149 --> 00:31:42,960
there's a whole array of experiments

752
00:31:48,470 --> 00:31:46,159
that aim not only

753
00:31:50,310 --> 00:31:48,480
at research but also at technology

754
00:31:52,630 --> 00:31:50,320
trying to find new technology develop

755
00:31:54,789 --> 00:31:52,640
new technologies again for the benefit

756
00:32:01,269 --> 00:31:54,799
of space exploration but also for the

757
00:32:04,230 --> 00:32:02,630
all right jules i think we have time for

758
00:32:06,789 --> 00:32:04,240
one of the good

759
00:32:08,950 --> 00:32:06,799
yes go ahead one more we have another a

760
00:32:11,190 --> 00:32:08,960
good question from loic d space from

761
00:32:13,990 --> 00:32:11,200
france we received on facebook you you

762
00:32:16,070 --> 00:32:14,000
are a very multicultural crew of three

763
00:32:18,149 --> 00:32:16,080

and he wonders what are the challenges

764
00:32:20,149 --> 00:32:18,159
linked to this to the fact that you come

765
00:32:22,870 --> 00:32:20,159
from three very different cultures on

766
00:32:25,350 --> 00:32:22,880
your day-to-day training and life

767
00:32:27,350 --> 00:32:25,360
so pick the pick the food is the most

768
00:32:29,830 --> 00:32:27,360
difficult challenge

769
00:32:32,630 --> 00:32:29,840
no actually it is not it is not but no

770
00:32:34,950 --> 00:32:32,640
you're right and um and uh space faring

771
00:32:37,669 --> 00:32:34,960
human space flight above everything else

772
00:32:40,230 --> 00:32:37,679
is a very multicultural endeavor i mean

773
00:32:42,470 --> 00:32:40,240
european space agency is already 22

774
00:32:44,950 --> 00:32:42,480
countries today we have nasa we have we

775
00:32:46,950 --> 00:32:44,960
have russia we have canada with japan so

776
00:32:48,870 --> 00:32:46,960
people from all over the world

777
00:32:51,110 --> 00:32:48,880
we have to speak the same language we

778
00:32:53,029 --> 00:32:51,120
have to understand each other

779
00:32:55,909 --> 00:32:53,039
and we bring that to the next level

780
00:32:58,070 --> 00:32:55,919
because we have to do this in a very

781
00:33:00,310 --> 00:32:58,080
very extreme environment when we're

782
00:33:01,909 --> 00:33:00,320
sitting in soyuz with all eggs we have

783
00:33:03,669 --> 00:33:01,919
to understand one another because we

784
00:33:04,710 --> 00:33:03,679
have to react to everything that could

785
00:33:06,789 --> 00:33:04,720
happen

786
00:33:10,389 --> 00:33:06,799
and it needs to be fast so

787
00:33:12,230 --> 00:33:10,399
i guess it takes it takes a lot of work

788
00:33:14,630 --> 00:33:12,240

but that's good that that only makes

789
00:33:17,350 --> 00:33:14,640
things better i think it's

790
00:33:19,029 --> 00:33:17,360
always easier to just fall back on what

791
00:33:20,710 --> 00:33:19,039
you already know

792
00:33:22,389 --> 00:33:20,720
and then stay in your comfort zone but

793
00:33:24,070 --> 00:33:22,399
that's not how you learn

794
00:33:25,590 --> 00:33:24,080
the way you learn is actually to by

795
00:33:27,110 --> 00:33:25,600
getting out of your comfort zone and

796
00:33:28,950 --> 00:33:27,120
yeah i'm gonna try to do this in russian

797
00:33:30,549 --> 00:33:28,960
like peggy said before i've never done

798
00:33:33,190 --> 00:33:30,559
that before am i able to do it i don't

799
00:33:35,190 --> 00:33:33,200
know i'll try let's see what happens um

800
00:33:36,710 --> 00:33:35,200
and that's what we've done at a huge

801
00:33:38,789 --> 00:33:36,720
level with the international space

802
00:33:41,350 --> 00:33:38,799
station and and guess what we've been

803
00:33:43,350 --> 00:33:41,360
very very successful so it can be done

804
00:33:45,350 --> 00:33:43,360
it sets the standard i think for the the

805
00:33:47,350 --> 00:33:45,360
future of space exploration and i hope

806
00:33:48,950 --> 00:33:47,360
we continue down that route because

807
00:33:51,990 --> 00:33:48,960
there's still a lot to be learned from

808
00:33:54,230 --> 00:33:52,000
from one another

809
00:33:55,350 --> 00:33:54,240
all right anything to add as as far as

810
00:33:57,669 --> 00:33:55,360
the difficulties of working with the

811
00:33:58,950 --> 00:33:57,679
multicultural crew

812
00:34:01,190 --> 00:33:58,960
you know i

813
00:34:02,149 --> 00:34:01,200

i think there's challenges all the time

814
00:34:04,710 --> 00:34:02,159
but i

815
00:34:06,789 --> 00:34:04,720
the the part that is fun is being a crew

816
00:34:08,710 --> 00:34:06,799
and a team and and

817
00:34:10,710 --> 00:34:08,720
figuring out where those challenges are

818
00:34:13,109 --> 00:34:10,720
and working around them and making

819
00:34:15,430 --> 00:34:13,119
making the best of that team

820
00:34:16,869 --> 00:34:15,440
uh in in spite of maybe

821
00:34:18,710 --> 00:34:16,879
it being a little more difficult to

822
00:34:20,310 --> 00:34:18,720
communicate sometimes

823
00:34:22,389 --> 00:34:20,320
or

824
00:34:24,069 --> 00:34:22,399
maybe having a different approach to

825
00:34:25,669 --> 00:34:24,079
answering a problem

826
00:34:27,909 --> 00:34:25,679
but in the end having those different

827
00:34:29,829 --> 00:34:27,919
approaches is what makes us stronger

828
00:34:31,430 --> 00:34:29,839
because we have different ideas and

829
00:34:32,470 --> 00:34:31,440
different solutions to different

830
00:34:34,230 --> 00:34:32,480
problems

831
00:34:36,389 --> 00:34:34,240
so i think it's definitely something

832
00:34:39,589 --> 00:34:36,399
that we can learn from and use as a

833
00:34:43,109 --> 00:34:39,599
model not just uh for space flight but

834
00:35:00,829 --> 00:34:45,829
anything to add or like

835
00:35:07,030 --> 00:35:02,550
is

836
00:35:08,550 --> 00:35:07,040
the level of professionals that each one

837
00:35:10,470 --> 00:35:08,560
of us has

838
00:35:13,750 --> 00:35:10,480

allows us to

839
00:35:16,230 --> 00:35:13,760
showcase and to use those particular

840
00:35:18,950 --> 00:35:16,240
traits or features that are particularly

841
00:35:21,030 --> 00:35:18,960
useful to everybody on the mission or on

842
00:35:23,190 --> 00:35:21,040
the ground and it's very important to be

843
00:35:26,069 --> 00:35:23,200
able to distinguish that particular

844
00:35:27,670 --> 00:35:26,079
thing which is of utmost importance

845
00:35:28,790 --> 00:35:27,680
all right

846
00:35:29,990 --> 00:35:28,800
i think we're going to go back now to

847
00:35:33,589 --> 00:35:30,000
the phone bridge we've got another

848
00:35:35,190 --> 00:35:33,599
question there from cbs

849
00:35:37,589 --> 00:35:35,200
yeah hi it's bill harwood with a very

850
00:35:39,589 --> 00:35:37,599
quick trivial question for tomas um i

851
00:35:40,790 --> 00:35:39,599
was reading your your bio and it said

852
00:35:42,630 --> 00:35:40,800
you played the saxophone so i was

853
00:35:44,390 --> 00:35:42,640
wondering if a you're any good or not

854
00:35:45,910 --> 00:35:44,400
and b if you might have a horn on board

855
00:35:47,349 --> 00:35:45,920
when you get there yeah when they say

856
00:35:50,150 --> 00:35:47,359
it's a really quick and easy question

857
00:35:51,030 --> 00:35:50,160
it's always the worst question

858
00:35:53,430 --> 00:35:51,040
um

859
00:35:54,870 --> 00:35:53,440
so no i'm not i'm not good at all at

860
00:35:57,190 --> 00:35:54,880
playing the saxophone i used to do that

861
00:36:00,069 --> 00:35:57,200
when i was a kid

862
00:36:01,670 --> 00:36:00,079
i i would share my free time between uh

863
00:36:04,310 --> 00:36:01,680

doing sports and playing some music

864
00:36:06,310 --> 00:36:04,320
which which i loved unfortunately i

865
00:36:08,470 --> 00:36:06,320
haven't haven't played that much in the

866
00:36:09,910 --> 00:36:08,480
last few years because of training for a

867
00:36:12,310 --> 00:36:09,920
mission to space which is the best

868
00:36:14,150 --> 00:36:12,320
excuse i've found

869
00:36:15,589 --> 00:36:14,160
and and also because of the constant

870
00:36:17,109 --> 00:36:15,599
traveling

871
00:36:19,109 --> 00:36:17,119
but

872
00:36:21,349 --> 00:36:19,119
nonetheless i'll try to bring my

873
00:36:23,190 --> 00:36:21,359
saxophone on board it hasn't been

874
00:36:25,430 --> 00:36:23,200
officially confirmed yet but i know issa

875
00:36:26,950 --> 00:36:25,440
is working on it

876
00:36:29,349 --> 00:36:26,960
and you never know it could be really

877
00:36:31,910 --> 00:36:29,359
cool on the sunday i hope it won't

878
00:36:34,230 --> 00:36:31,920
bother my crewmates i'll try to find the

879
00:36:36,630 --> 00:36:34,240
most isolated corner of space station so

880
00:36:38,230 --> 00:36:36,640
that in case i'm i'm really not doing

881
00:36:39,829 --> 00:36:38,240
well at all it won't be too much pain

882
00:36:41,030 --> 00:36:39,839
for you guys

883
00:36:43,430 --> 00:36:41,040
we'll let you know whether or not he's

884
00:36:45,670 --> 00:36:43,440
any good or not

885
00:36:48,870 --> 00:36:45,680
but no i like i like the idea that with

886
00:36:49,829 --> 00:36:48,880
space station also opening the door um

887
00:36:55,030 --> 00:36:49,839
to

888
00:36:56,550 --> 00:36:55,040

that were not necessarily present at the

889
00:36:58,390 --> 00:36:56,560
beginning of human spaceflight just

890
00:37:00,790 --> 00:36:58,400
because if you send people to space for

891
00:37:02,069 --> 00:37:00,800
12 days they'll be working 24 hours a

892
00:37:03,589 --> 00:37:02,079
day

893
00:37:05,910 --> 00:37:03,599
and they won't have time to really

894
00:37:08,069 --> 00:37:05,920
express this decide that they might have

895
00:37:09,829 --> 00:37:08,079
in themselves a with space station we

896
00:37:11,910 --> 00:37:09,839
have our sundays afternoon so people can

897
00:37:14,390 --> 00:37:11,920
work on their own projects they can they

898
00:37:16,630 --> 00:37:14,400
can start writing a book they can play

899
00:37:19,030 --> 00:37:16,640
some music they can take pictures they

900
00:37:20,310 --> 00:37:19,040
can shoot videos so it's a more artistic

901
00:37:22,470 --> 00:37:20,320
side

902
00:37:24,470 --> 00:37:22,480
of the astronauts in general but also a

903
00:37:26,550 --> 00:37:24,480
more artistic side of life and i think

904
00:37:29,829 --> 00:37:26,560
it's great if we really want to be the

905
00:37:31,750 --> 00:37:29,839
ambassadors of humanity in space we also

906
00:37:32,870 --> 00:37:31,760
have to to be open to that less

907
00:37:35,190 --> 00:37:32,880
technical

908
00:37:38,069 --> 00:37:35,200
uh side of of the people we want to

909
00:37:39,030 --> 00:37:38,079
represent everybody

910
00:37:40,310 --> 00:37:39,040
okay

911
00:37:41,910 --> 00:37:40,320
i think we have time for a couple of

912
00:37:44,150 --> 00:37:41,920
follow-ups here in the room if anybody

913
00:37:47,270 --> 00:37:44,160

has any questions mark

914
00:37:47,280 --> 00:37:58,230
i'm wondering what your training

915
00:38:00,950 --> 00:38:00,150
well last week we finished up our last

916
00:38:06,150 --> 00:38:00,960
three

917
00:38:08,390 --> 00:38:06,160
week tomo and i have some robotics

918
00:38:10,390 --> 00:38:08,400
training together

919
00:38:12,870 --> 00:38:10,400
and some we've been having a lot of

920
00:38:14,150 --> 00:38:12,880
briefings just general systems briefings

921
00:38:16,230 --> 00:38:14,160
of

922
00:38:17,990 --> 00:38:16,240
since our training is completed you know

923
00:38:20,069 --> 00:38:18,000
what changes have happened on board

924
00:38:22,390 --> 00:38:20,079
what's new what don't forget this part

925
00:38:24,230 --> 00:38:22,400
don't forget that part so just a lot of

926
00:38:30,310 --> 00:38:24,240
the the

927
00:38:32,950 --> 00:38:30,320
happening and tomorrow and i also have

928
00:38:35,670 --> 00:38:32,960
one more uh nbl the neutral buoyancy

929
00:38:37,270 --> 00:38:35,680
laboratory uh spacewalk practice run

930
00:38:40,230 --> 00:38:37,280
that we'll have

931
00:38:42,550 --> 00:38:40,240
and uh oleg and tomorrow both depart

932
00:38:46,150 --> 00:38:42,560
after next week um

933
00:38:49,030 --> 00:38:46,160
and we'll head over to russia for

934
00:38:51,349 --> 00:38:49,040
six to seven weeks of the final soyuz

935
00:38:53,750 --> 00:38:51,359
training over there in the final russian

936
00:38:55,109 --> 00:38:53,760
segment uh emergency training there as

937
00:38:57,510 --> 00:38:55,119
well so

938
00:38:59,270 --> 00:38:57,520

it should be a pretty busy time for us

939
00:39:02,069 --> 00:38:59,280
in the next few weeks

940
00:39:04,069 --> 00:39:02,079
but it's kind of the

941
00:39:07,349 --> 00:39:04,079
they're kind of repeating things now

942
00:39:08,950 --> 00:39:07,359
which is good so it's not all new

943
00:39:12,150 --> 00:39:08,960
we've heard it before so we're ready to

944
00:39:17,510 --> 00:39:15,190
i think i saw a hand there in the back

945
00:39:19,430 --> 00:39:17,520
with i wesley university first off we

946
00:39:21,670 --> 00:39:19,440
are uh very proud of our alum we got to

947
00:39:24,150 --> 00:39:21,680
listen um my question actually is you

948
00:39:27,030 --> 00:39:24,160
have been such a trailblazer um in space

949
00:39:29,670 --> 00:39:27,040
exploration and what has been your

950
00:39:31,510 --> 00:39:29,680
personal greatest accomplishment

951
00:39:32,870 --> 00:39:31,520
and to follow that is there something

952
00:39:34,470 --> 00:39:32,880
that you hope to still accomplish so

953
00:39:36,870 --> 00:39:34,480
that you hope that nasa would accomplish

954
00:39:38,550 --> 00:39:36,880
during your lifetime

955
00:39:40,790 --> 00:39:38,560
wow

956
00:39:43,030 --> 00:39:40,800
i really don't feel like i have a lot of

957
00:39:46,710 --> 00:39:43,040
regrets i feel very lucky to have been

958
00:39:49,109 --> 00:39:46,720
in and had a lot of opportunities

959
00:39:51,349 --> 00:39:49,119
throughout my career even before i

960
00:39:54,069 --> 00:39:51,359
started working at nasa but i feel very

961
00:39:57,109 --> 00:39:54,079
lucky to have gotten here

962
00:40:00,710 --> 00:39:57,119
in terms of goals for nasa uh before i

963
00:40:02,710 --> 00:40:00,720

die we need to be living on mars

964
00:40:07,670 --> 00:40:02,720
i agree and i might not live that long

965
00:40:10,950 --> 00:40:09,109
all right

966
00:40:12,630 --> 00:40:10,960
well you know we this is a question for

967
00:40:13,910 --> 00:40:12,640
all three of you we've got a group of

968
00:40:15,190 --> 00:40:13,920
kids in this room and then we've got

969
00:40:16,710 --> 00:40:15,200
kids all over the world who are looking

970
00:40:18,230 --> 00:40:16,720
up to you and really admiring you for

971
00:40:19,430 --> 00:40:18,240
what you're about to accomplish and what

972
00:40:21,109 --> 00:40:19,440
you're about to do

973
00:40:23,750 --> 00:40:21,119
um and a lot of us trying to connect the

974
00:40:26,390 --> 00:40:23,760
dots of life and how do you get from

975
00:40:28,630 --> 00:40:26,400
being a young person to an adult that

976
00:40:30,390 --> 00:40:28,640
you know is living out of this world so

977
00:40:33,910 --> 00:40:30,400
can you explain

978
00:40:35,910 --> 00:40:33,920
um what advice you give

979
00:40:37,910 --> 00:40:35,920
well um

980
00:40:39,270 --> 00:40:37,920
i think it's important you know tomah

981
00:40:41,190 --> 00:40:39,280
kind of touched on it and i think it's

982
00:40:42,790 --> 00:40:41,200
very important all of us

983
00:40:45,349 --> 00:40:42,800
you know we might have interests and we

984
00:40:48,069 --> 00:40:45,359
might have dreams but we might not try

985
00:40:49,990 --> 00:40:48,079
to live up to them we might think that's

986
00:40:52,550 --> 00:40:50,000
not possible for me

987
00:40:54,710 --> 00:40:52,560
liv and being able to step a little bit

988
00:40:56,630 --> 00:40:54,720

outside of what's comfortable for you

989
00:40:59,589 --> 00:40:56,640
and say i'm going to take a chance i'm

990
00:41:00,390 --> 00:40:59,599
going to try anyway is really important

991
00:41:03,109 --> 00:41:00,400
so

992
00:41:05,190 --> 00:41:03,119
i think striving to be just a little bit

993
00:41:06,790 --> 00:41:05,200
uncomfortable in your life pushing

994
00:41:09,349 --> 00:41:06,800
yourself to be just a little bit

995
00:41:10,950 --> 00:41:09,359
uncomfortable is going to get you

996
00:41:12,710 --> 00:41:10,960
more places than you would ever have

997
00:41:15,349 --> 00:41:12,720
dreamed because

998
00:41:17,190 --> 00:41:15,359
you will make it

999
00:41:18,390 --> 00:41:17,200
and i think if i can add up to that i

1000
00:41:20,309 --> 00:41:18,400
think it's a

1001
00:41:21,910 --> 00:41:20,319
success i don't know how to define

1002
00:41:23,750 --> 00:41:21,920
success but i think it's a combination

1003
00:41:26,790 --> 00:41:23,760
of so many different things

1004
00:41:28,870 --> 00:41:26,800
um which they don't all happen at school

1005
00:41:30,870 --> 00:41:28,880
it's very important to be as successful

1006
00:41:33,270 --> 00:41:30,880
academically as you can but that's not

1007
00:41:34,870 --> 00:41:33,280
the only thing i mean it's not if you

1008
00:41:36,870 --> 00:41:34,880
have the best grades it won't

1009
00:41:38,790 --> 00:41:36,880
necessarily get you to the astronaut

1010
00:41:40,950 --> 00:41:38,800
core you need to be able to work as a

1011
00:41:42,710 --> 00:41:40,960
team you need to have some empathy you

1012
00:41:44,790 --> 00:41:42,720
need to be patient you need to be able

1013
00:41:46,870 --> 00:41:44,800

to communicate you need to understand

1014
00:41:48,230 --> 00:41:46,880
and and you can learn this in so many

1015
00:41:49,990 --> 00:41:48,240
ways

1016
00:41:51,510 --> 00:41:50,000
so the advice i give to kids is of

1017
00:41:54,790 --> 00:41:51,520
course do your best at school and that's

1018
00:41:57,670 --> 00:41:54,800
what matters most but then also

1019
00:42:00,470 --> 00:41:57,680
try to try to experiment

1020
00:42:02,790 --> 00:42:00,480
and and try to get as many different as

1021
00:42:05,349 --> 00:42:02,800
many different qualifications if you if

1022
00:42:07,270 --> 00:42:05,359
you want as you can like try to do

1023
00:42:09,030 --> 00:42:07,280
sports that's important for team spirit

1024
00:42:10,790 --> 00:42:09,040
for relating to people

1025
00:42:12,309 --> 00:42:10,800
music is great it's going to develop

1026
00:42:13,910 --> 00:42:12,319
some some side of your brain that you

1027
00:42:16,230 --> 00:42:13,920
might not be using even if you're not

1028
00:42:18,150 --> 00:42:16,240
very good at playing the saxophone and

1029
00:42:20,069 --> 00:42:18,160
and things like this so it's it's not

1030
00:42:23,349 --> 00:42:20,079
only it's not only an academic

1031
00:42:25,430 --> 00:42:23,359
achievement it's also it's also

1032
00:42:27,430 --> 00:42:25,440
the result of so many experiences that

1033
00:42:29,589 --> 00:42:27,440
you can have in life so try to go out

1034
00:42:31,910 --> 00:42:29,599
there and try to try to do things even

1035
00:42:33,270 --> 00:42:31,920
if it's not only at school that's gonna

1036
00:42:35,349 --> 00:42:33,280
it's gonna get you somewhere you might

1037
00:42:41,190 --> 00:42:35,359
not understand why right now but it's

1038
00:42:41,200 --> 00:43:01,829

anything to adolek

1039
00:43:06,069 --> 00:43:04,069
i fully agree with my crew members and i

1040
00:43:08,150 --> 00:43:06,079
only wanted to add one thing it's

1041
00:43:10,950 --> 00:43:08,160
extremely important to set the right

1042
00:43:13,270 --> 00:43:10,960
goal because the higher the goal you set

1043
00:43:15,190 --> 00:43:13,280
is the more you'll be able to achieve in

1044
00:43:16,790 --> 00:43:15,200
life

1045
00:43:18,950 --> 00:43:16,800
good advice

1046
00:43:21,030 --> 00:43:18,960
all right i think that is all the

1047
00:43:23,589 --> 00:43:21,040
questions for today oh one more here in

1048
00:43:26,230 --> 00:43:23,599
the front and then we'll stop

1049
00:43:27,990 --> 00:43:26,240
how do you prepare yourself for such an

1050
00:43:31,349 --> 00:43:28,000
intense

1051
00:43:36,069 --> 00:43:34,150
how do i mentally prepare

1052
00:43:38,069 --> 00:43:36,079
well i think the training does that a

1053
00:43:40,390 --> 00:43:38,079
lot because you practice different

1054
00:43:41,589 --> 00:43:40,400
scenarios and situations it makes you

1055
00:43:43,670 --> 00:43:41,599
comfortable

1056
00:43:46,069 --> 00:43:43,680
in different scenarios and situations so

1057
00:43:47,910 --> 00:43:46,079
i think the training that that leads up

1058
00:43:49,030 --> 00:43:47,920
to a mission

1059
00:43:50,230 --> 00:43:49,040
makes it

1060
00:43:53,349 --> 00:43:50,240
reasonable

1061
00:43:55,270 --> 00:43:53,359
and not as scary not as

1062
00:43:56,390 --> 00:43:55,280
unknown to you it becomes more

1063
00:43:58,470 --> 00:43:56,400

comfortable

1064
00:44:00,309 --> 00:43:58,480
and even though we can't train for every

1065
00:44:02,150 --> 00:44:00,319
day of a six-month mission that would

1066
00:44:03,349 --> 00:44:02,160
just take too long

1067
00:44:04,950 --> 00:44:03,359
and we have so many different

1068
00:44:07,270 --> 00:44:04,960
investigations you know 300

1069
00:44:09,510 --> 00:44:07,280
investigations going on you can't train

1070
00:44:12,470 --> 00:44:09,520
for all of them and so you just have to

1071
00:44:13,829 --> 00:44:12,480
be adaptable and uh

1072
00:44:16,230 --> 00:44:13,839
understand what

1073
00:44:18,710 --> 00:44:16,240
the procedures are telling you to do and

1074
00:44:21,430 --> 00:44:18,720
not be afraid to implement them and to

1075
00:44:22,950 --> 00:44:21,440
just keep moving forward

1076
00:44:24,790 --> 00:44:22,960
all right

1077
00:44:27,190 --> 00:44:24,800
okay with that we are going to wrap up

1078
00:44:28,870 --> 00:44:27,200
for the debt for the day but um you are

1079
00:44:30,790 --> 00:44:28,880
going to want to be sure and tune in for

1080
00:44:33,270 --> 00:44:30,800
a couple of things later if you didn't

1081
00:44:35,190 --> 00:44:33,280
get your ask nasa question answered on

1082
00:44:37,589 --> 00:44:35,200
social media you'll have another chance

1083
00:44:39,670 --> 00:44:37,599
on the international space station

1084
00:44:42,790 --> 00:44:39,680
facebook page peggy will be doing a

1085
00:44:44,069 --> 00:44:42,800
facebook live today at around 4 30 p.m

1086
00:44:46,069 --> 00:44:44,079
central time

1087
00:44:47,910 --> 00:44:46,079
and then on thursday you'll also want to

1088
00:44:50,630 --> 00:44:47,920

be sure and watch our space walk

1089
00:44:53,270 --> 00:44:50,640
coverage for that begins here on nasa tv

1090
00:44:55,750 --> 00:44:53,280
at 5 30 a.m central time and that will

1091
00:44:57,109 --> 00:44:55,760
be another space walk by jeff williams

1092
00:44:58,950 --> 00:44:57,119
and kate rubens who are currently on the