



1  
00:00:04,710 --> 00:00:02,470

let's start off with a couple of

2  
00:00:06,550 --> 00:00:04,720

questions first about life and work on

3  
00:00:08,390 --> 00:00:06,560

orbit uh jeff

4  
00:00:10,150 --> 00:00:08,400

for you it's been a busy few weeks for

5  
00:00:12,549 --> 00:00:10,160

you and kate and the rest of the crew

6  
00:00:14,390 --> 00:00:12,559

with visiting vehicles coming and going

7  
00:00:16,070 --> 00:00:14,400

a lot of research being conducted on

8  
00:00:18,630 --> 00:00:16,080

board give us a sense of the

9  
00:00:20,710 --> 00:00:18,640

choreography that is being undertaken to

10  
00:00:22,070 --> 00:00:20,720

accomplish all of this

11  
00:00:23,670 --> 00:00:22,080

well you're right the last few weeks

12  
00:00:26,630 --> 00:00:23,680

have been busy of course we transitioned

13  
00:00:29,349 --> 00:00:26,640

from expedition 47 to 48

14

00:00:32,229 --> 00:00:29,359

and uh kate and tock and anatoly arrived

15

00:00:35,190 --> 00:00:32,239

safely on their soyuz to be to join us

16

00:00:37,430 --> 00:00:35,200

on expedition 48 and they didn't have a

17

00:00:40,069 --> 00:00:37,440

whole lot of time to

18

00:00:41,590 --> 00:00:40,079

to get their feet wet you might say on

19

00:00:43,910 --> 00:00:41,600

board the station acclimate to the

20

00:00:45,750 --> 00:00:43,920

environment before we had supply ships

21

00:00:47,910 --> 00:00:45,760

showing up first of progress a russian

22

00:00:50,150 --> 00:00:47,920

progress supply ship arrived late one

23

00:00:52,869 --> 00:00:50,160

night and then a little over 24 hours

24

00:00:56,310 --> 00:00:52,879

later during the day the the spacex

25

00:00:57,110 --> 00:00:56,320

dragon arrived and of course its arrival

26

00:00:59,590 --> 00:00:57,120

marked

27

00:01:01,510 --> 00:00:59,600

the um the start of a bunch of new work

28

00:01:04,229 --> 00:01:01,520

uh we have rodent research that we had

29

00:01:06,550 --> 00:01:04,239

to quickly get on board and tokuya was

30

00:01:08,630 --> 00:01:06,560

was dedicated at that getting them

31

00:01:10,870 --> 00:01:08,640

safely in their habitat and uh up and

32

00:01:13,270 --> 00:01:10,880

running we've got some great research on

33

00:01:15,510 --> 00:01:13,280

board the the dragon

34

00:01:17,350 --> 00:01:15,520

you've heard of heart the heart cells

35

00:01:19,749 --> 00:01:17,360

experiment and other experiments of

36

00:01:21,190 --> 00:01:19,759

course there's supplies and equipment

37

00:01:23,910 --> 00:01:21,200

coming on board that we had to get

38

00:01:26,390 --> 00:01:23,920

offloaded and we're in the process of of

39

00:01:28,390 --> 00:01:26,400

doing that and integrating that new

40

00:01:30,630 --> 00:01:28,400

equipment onboard station and of course

41

00:01:34,230 --> 00:01:30,640

it brings many more experiments as well

42

00:01:37,590 --> 00:01:34,240

as in the external compartment of dragon

43

00:01:39,109 --> 00:01:37,600

it brought the the ida or the the new

44

00:01:41,190 --> 00:01:39,119

docking adapter

45

00:01:43,590 --> 00:01:41,200

that will accommodate the new commercial

46

00:01:46,230 --> 00:01:43,600

crew vehicles scheduled to fly here in

47

00:01:48,149 --> 00:01:46,240

the in the very short future

48

00:01:49,670 --> 00:01:48,159

and we'll talk about that ida in just a

49

00:01:51,670 --> 00:01:49,680

moment jeff

50

00:01:54,710 --> 00:01:51,680

you know they say that seniority can't

51  
00:01:56,950 --> 00:01:54,720  
be beat in the cosmic sense august 24th

52  
00:01:58,950 --> 00:01:56,960  
marks a milestone for you

53  
00:02:00,789 --> 00:01:58,960  
as you uh will surpass scott kelly's

54  
00:02:03,510 --> 00:02:00,799  
short-lived record for the most amount

55  
00:02:04,550 --> 00:02:03,520  
of days in space by u.s astronaut 520

56  
00:02:06,469 --> 00:02:04,560  
days

57  
00:02:09,029 --> 00:02:06,479  
uh this your fourth flight what does

58  
00:02:11,670 --> 00:02:09,039  
that milestone mean for you personally

59  
00:02:13,589 --> 00:02:11,680  
and what does it say about the longevity

60  
00:02:17,190 --> 00:02:13,599  
of the station and its ability to

61  
00:02:19,030 --> 00:02:17,200  
sustain a permanent human occupancy

62  
00:02:21,589 --> 00:02:19,040  
well i think we would all agree that

63  
00:02:23,830 --> 00:02:21,599

it's an honor to spend any day

64

00:02:26,229 --> 00:02:23,840

in space and certainly

65

00:02:28,229 --> 00:02:26,239

to have accumulated that time is is

66

00:02:29,830 --> 00:02:28,239

truly an honor for me

67

00:02:31,990 --> 00:02:29,840

but i think you bring up the bigger

68

00:02:33,990 --> 00:02:32,000

point in that

69

00:02:36,309 --> 00:02:34,000

this program the scope of this program

70

00:02:37,750 --> 00:02:36,319

of the international space station i can

71

00:02:39,750 --> 00:02:37,760

remember when freedom was announced in

72

00:02:41,910 --> 00:02:39,760

1984

73

00:02:45,030 --> 00:02:41,920

and having the desire to be part of it

74

00:02:46,949 --> 00:02:45,040

as soon as as early as 1985

75

00:02:49,350 --> 00:02:46,959

and then of course it morphed because of

76

00:02:51,670 --> 00:02:49,360

largely because a geopolitical

77

00:02:53,270 --> 00:02:51,680

situation in the world

78

00:02:56,630 --> 00:02:53,280

to the international space station in

79

00:02:59,030 --> 00:02:56,640

the early 90s and to be part of that

80

00:03:01,030 --> 00:02:59,040

to really represent a really

81

00:03:02,710 --> 00:03:01,040

amazing team especially when you look

82

00:03:04,869 --> 00:03:02,720

back in hindsight at what the

83

00:03:07,670 --> 00:03:04,879

international team accomplished

84

00:03:09,430 --> 00:03:07,680

to integrate what used to be mir-2 and

85

00:03:11,430 --> 00:03:09,440

freedom the elements of that into the

86

00:03:13,589 --> 00:03:11,440

international space station bring russia

87

00:03:16,070 --> 00:03:13,599

on as a partner with the other partners

88

00:03:18,149 --> 00:03:16,080

that had already joined freedom to

89

00:03:19,990 --> 00:03:18,159

integrate this new station and then to

90

00:03:21,110 --> 00:03:20,000

begin building it and then to

91

00:03:22,630 --> 00:03:21,120

permanently

92

00:03:24,869 --> 00:03:22,640

man it

93

00:03:25,990 --> 00:03:24,879

15 and a half years going on 16 years

94

00:03:27,750 --> 00:03:26,000

now

95

00:03:28,949 --> 00:03:27,760

we've had permanent human presence in

96

00:03:30,149 --> 00:03:28,959

space

97

00:03:31,830 --> 00:03:30,159

and it's been

98

00:03:33,750 --> 00:03:31,840

largely very successful we've had

99

00:03:35,830 --> 00:03:33,760

setbacks we've had disappointments we've

100

00:03:38,309 --> 00:03:35,840

had uh struggles to work through we've

101  
00:03:40,630 --> 00:03:38,319  
had uh challenges but the team has

102  
00:03:42,710 --> 00:03:40,640  
stepped up to that and to

103  
00:03:44,789 --> 00:03:42,720  
to be a part of it at the beginning in

104  
00:03:47,030 --> 00:03:44,799  
the middle uh finishing out the space

105  
00:03:49,270 --> 00:03:47,040  
station and now

106  
00:03:52,789 --> 00:03:49,280  
when it's in the full utilization mode

107  
00:03:55,030 --> 00:03:52,799  
and really stepping up uh in terms of

108  
00:03:57,830 --> 00:03:55,040  
the greater scientific community on the

109  
00:03:59,910 --> 00:03:57,840  
world recognizing its potential and in

110  
00:04:01,190 --> 00:03:59,920  
getting into the doorway

111  
00:04:03,429 --> 00:04:01,200  
to get their

112  
00:04:05,429 --> 00:04:03,439  
research on board and to see it

113  
00:04:07,509 --> 00:04:05,439

you know blossom in its utilization

114

00:04:09,110 --> 00:04:07,519

that's really the bigger story to me

115

00:04:11,589 --> 00:04:09,120

personally

116

00:04:14,149 --> 00:04:11,599

kate let's turn to you for a moment

117

00:04:15,990 --> 00:04:14,159

have your first weeks in orbit been

118

00:04:18,469 --> 00:04:16,000

everything you expected them to be and

119

00:04:22,230 --> 00:04:18,479

what has been the most stunning aspect

120

00:04:25,749 --> 00:04:23,510

yeah i think

121

00:04:28,950 --> 00:04:25,759

nobody can really quite prepare for your

122

00:04:31,749 --> 00:04:28,960

first few weeks in space and it's it's

123

00:04:33,909 --> 00:04:31,759

absolutely amazing it's it's incredible

124

00:04:36,710 --> 00:04:33,919

and and i say this even working at nasa

125

00:04:38,710 --> 00:04:36,720

for seven years before i flew so

126

00:04:40,790 --> 00:04:38,720

we see in mission control we see the

127

00:04:43,350 --> 00:04:40,800

space station on the big screen all the

128

00:04:45,510 --> 00:04:43,360

time it almost feels like like home like

129

00:04:47,590 --> 00:04:45,520

your living room it's that familiar uh

130

00:04:49,430 --> 00:04:47,600

even all the cables and the wiring and

131

00:04:51,670 --> 00:04:49,440

the lab that you see around us but

132

00:04:52,469 --> 00:04:51,680

that's nothing like actually being here

133

00:04:55,110 --> 00:04:52,479

and

134

00:04:57,590 --> 00:04:55,120

experiencing even these same walls that

135

00:04:58,390 --> 00:04:57,600

i saw all the time on television to see

136

00:05:00,150 --> 00:04:58,400

that

137

00:05:02,310 --> 00:05:00,160

in reality and to actually get a chance

138

00:05:04,550 --> 00:05:02,320

to work with some of this equipment

139

00:05:06,550 --> 00:05:04,560

has been absolutely incredible and i'm a

140

00:05:08,790 --> 00:05:06,560

little bit split between

141

00:05:11,270 --> 00:05:08,800

what's more fascinating to me i look out

142

00:05:14,070 --> 00:05:11,280

the window and every astronaut says this

143

00:05:15,990 --> 00:05:14,080

but truly the earth is more beautiful

144

00:05:17,590 --> 00:05:16,000

than you can ever imagine

145

00:05:19,029 --> 00:05:17,600

it's just not something that you can

146

00:05:20,390 --> 00:05:19,039

conceive of

147

00:05:22,070 --> 00:05:20,400

from from all the pictures we're

148

00:05:24,469 --> 00:05:22,080

starting to do more with high definition

149

00:05:26,230 --> 00:05:24,479

video and i think that brings that

150

00:05:28,629 --> 00:05:26,240

to people around the world to get a

151  
00:05:30,870 --> 00:05:28,639  
chance to see what we see but i'm pretty

152  
00:05:33,510 --> 00:05:30,880  
split between what's more amazing to me

153  
00:05:35,189 --> 00:05:33,520  
uh the planet and and actually getting

154  
00:05:36,950 --> 00:05:35,199  
to see the space station when you look

155  
00:05:39,270 --> 00:05:36,960  
out the window you see the equipment

156  
00:05:41,189 --> 00:05:39,280  
surrounding you and you can see the

157  
00:05:43,270 --> 00:05:41,199  
entire space station from the

158  
00:05:45,270 --> 00:05:43,280  
perspective of the inside

159  
00:05:46,950 --> 00:05:45,280  
kate researches the name of the game on

160  
00:05:49,670 --> 00:05:46,960  
the international space station there's

161  
00:05:51,430 --> 00:05:49,680  
worldwide interest in your upcoming dna

162  
00:05:53,670 --> 00:05:51,440  
research activities

163  
00:05:55,830 --> 00:05:53,680

tell us a little bit about what is

164

00:05:59,510 --> 00:05:55,840

coming up for you in regard to that

165

00:06:01,270 --> 00:05:59,520

research and your goals and expectations

166

00:06:03,830 --> 00:06:01,280

yeah we've we've had some incredible

167

00:06:06,550 --> 00:06:03,840

research that's arrived uh on the on the

168

00:06:07,670 --> 00:06:06,560

dragon vehicle the spacex 9 mission has

169

00:06:09,749 --> 00:06:07,680

brought us

170

00:06:11,430 --> 00:06:09,759

both topping off all of our research

171

00:06:13,270 --> 00:06:11,440

supplies as well as incredible new

172

00:06:14,550 --> 00:06:13,280

facilities and

173

00:06:16,070 --> 00:06:14,560

one of the things that folks are very

174

00:06:17,990 --> 00:06:16,080

interested in is

175

00:06:19,189 --> 00:06:18,000

potentially doing the first dna sequence

176  
00:06:21,029 --> 00:06:19,199  
in space

177  
00:06:22,710 --> 00:06:21,039  
that's really a testament i think to the

178  
00:06:24,150 --> 00:06:22,720  
ground teams that have put this together

179  
00:06:26,710 --> 00:06:24,160  
there's folks that have worked on this

180  
00:06:28,550 --> 00:06:26,720  
project for years now and it's not an

181  
00:06:30,790 --> 00:06:28,560  
easy thing to take a piece of earth

182  
00:06:32,950 --> 00:06:30,800  
equipment and launch it into orbit and

183  
00:06:34,550 --> 00:06:32,960  
actually fly it on the space station but

184  
00:06:36,870 --> 00:06:34,560  
the benefits are huge

185  
00:06:38,629 --> 00:06:36,880  
the potential to understand the

186  
00:06:41,270 --> 00:06:38,639  
technology development of how this

187  
00:06:42,950 --> 00:06:41,280  
equipment works in microgravity fluids

188  
00:06:44,629 --> 00:06:42,960

are behave differently

189

00:06:46,150 --> 00:06:44,639

bubbles move through systems differently

190

00:06:47,990 --> 00:06:46,160

so we're learning a lot just from the

191

00:06:51,110 --> 00:06:48,000

technology development but then it's

192

00:06:53,990 --> 00:06:51,120

also an application so we can understand

193

00:06:56,390 --> 00:06:54,000

a a whole number of variables that

194

00:06:58,469 --> 00:06:56,400

change in response to either

195

00:07:00,150 --> 00:06:58,479

microgravity or the radiation

196

00:07:02,070 --> 00:07:00,160

environment in low earth orbit and we

197

00:07:04,629 --> 00:07:02,080

can actually understand that at a real

198

00:07:07,110 --> 00:07:04,639

global level and start to look at not

199

00:07:09,909 --> 00:07:07,120

just one or two gene but ten thousands

200

00:07:12,870 --> 00:07:09,919

of genes thirty thousand genes and get

201  
00:07:14,469 --> 00:07:12,880  
all of that data all at once

202  
00:07:16,150 --> 00:07:14,479  
as far as worldwide interest is

203  
00:07:18,230 --> 00:07:16,160  
concerned no shortage of that when it

204  
00:07:20,230 --> 00:07:18,240  
comes to your upcoming spacewalk to

205  
00:07:22,309 --> 00:07:20,240  
install that first international docking

206  
00:07:23,990 --> 00:07:22,319  
adapter to the forward end of the us

207  
00:07:26,629 --> 00:07:24,000  
segment of the station

208  
00:07:28,550 --> 00:07:26,639  
tell us a little bit about first off the

209  
00:07:31,110 --> 00:07:28,560  
extraction process

210  
00:07:34,950 --> 00:07:31,120  
how the ida will be pre-positioned to

211  
00:07:36,710 --> 00:07:34,960  
set the stage for your excursion outside

212  
00:07:38,390 --> 00:07:36,720  
that highlights one of the capabilities

213  
00:07:40,309 --> 00:07:38,400

that has been developed over the years

214

00:07:42,550 --> 00:07:40,319

and that is how we do robotic arm

215

00:07:44,230 --> 00:07:42,560

operations in the beginning the crew on

216

00:07:45,909 --> 00:07:44,240

board did virtually all of the

217

00:07:47,990 --> 00:07:45,919

operations with the exception of maybe

218

00:07:50,550 --> 00:07:48,000

just setting the up arm setting the arm

219

00:07:52,710 --> 00:07:50,560

up getting it operational and then

220

00:07:54,150 --> 00:07:52,720

putting it away so to speak

221

00:07:56,309 --> 00:07:54,160

but over the years

222

00:07:58,710 --> 00:07:56,319

the the ground has developed more and

223

00:08:02,230 --> 00:07:58,720

more capability and now they do

224

00:08:04,550 --> 00:08:02,240

90 90 some percent of the robotic armory

225

00:08:06,950 --> 00:08:04,560

operations from the ground and that

226

00:08:07,749 --> 00:08:06,960

includes the extraction of this ida from

227

00:08:16,869 --> 00:08:07,759

the

228

00:08:18,390 --> 00:08:16,879

station on

229

00:08:20,550 --> 00:08:18,400

the pressurized maintaining adapter

230

00:08:23,589 --> 00:08:20,560

where the shuttle used to dock

231

00:08:25,909 --> 00:08:23,599

and approach that pma

232

00:08:27,670 --> 00:08:25,919

and be just very close to it when we go

233

00:08:29,189 --> 00:08:27,680

out the door and and as we go out the

234

00:08:32,149 --> 00:08:29,199

door they'll bring it in to within a

235

00:08:33,589 --> 00:08:32,159

couple of inches of its mating interface

236

00:08:37,029 --> 00:08:33,599

and then we'll go out there and do the

237

00:08:38,709 --> 00:08:37,039

final attachment uh of the the uh the

238

00:08:40,389 --> 00:08:38,719

docking adapter and then of course

239

00:08:41,829 --> 00:08:40,399

they'll ungrapple and move it away so

240

00:08:44,070 --> 00:08:41,839

that'll be the big picture the

241

00:08:45,750 --> 00:08:44,080

choreography to get it out there in

242

00:08:48,949 --> 00:08:45,760

place and then of course we'll finish

243

00:08:51,829 --> 00:08:48,959

out the installation of cables power and

244

00:08:53,430 --> 00:08:51,839

data cables and whatnot uh on the the

245

00:08:54,949 --> 00:08:53,440

idea itself during the course of the

246

00:08:57,110 --> 00:08:54,959

spacewalk

247

00:08:58,550 --> 00:08:57,120

and in that regard for both of you

248

00:09:01,509 --> 00:08:58,560

if you could give me

249

00:09:03,509 --> 00:09:01,519

a bit of a detailed rundown on

250

00:09:05,590 --> 00:09:03,519

what tasks each of you will be

251  
00:09:07,750 --> 00:09:05,600  
responsible for how you work in tandem

252  
00:09:10,630 --> 00:09:07,760  
how you work apart from one another to

253  
00:09:12,389 --> 00:09:10,640  
get the ida actually physically mated to

254  
00:09:14,230 --> 00:09:12,399  
that pressurized mating adapter at the

255  
00:09:16,150 --> 00:09:14,240  
forward end of harmony

256  
00:09:17,430 --> 00:09:16,160  
yeah it's actually um we've got the

257  
00:09:19,190 --> 00:09:17,440  
olympics coming up here and it's

258  
00:09:21,110 --> 00:09:19,200  
actually a little bit like a a

259  
00:09:22,949 --> 00:09:21,120  
synchronized swimming operation so we're

260  
00:09:25,350 --> 00:09:22,959  
going to work in tandem with the ground

261  
00:09:27,750 --> 00:09:25,360  
teams and jeff and i will be going out

262  
00:09:30,230 --> 00:09:27,760  
we're going to be uh on clock positions

263  
00:09:32,550 --> 00:09:30,240

at the at the ida so it's actually quite

264

00:09:34,310 --> 00:09:32,560

a huge uh piece of equipment when you

265

00:09:37,509 --> 00:09:34,320

see it up close

266

00:09:39,509 --> 00:09:37,519

it you know it's it's meters in diameter

267

00:09:42,150 --> 00:09:39,519

and so we'll be holding it uh from

268

00:09:43,750 --> 00:09:42,160

either end of the clock position and the

269

00:09:45,910 --> 00:09:43,760

robotic arm is going to bring it in

270

00:09:47,910 --> 00:09:45,920

towards us we'll continue to bring it in

271

00:09:50,070 --> 00:09:47,920

station and then ground teams are going

272

00:09:51,750 --> 00:09:50,080

to do some complicated operations to

273

00:09:53,509 --> 00:09:51,760

drive the hooks

274

00:09:55,350 --> 00:09:53,519

that's going to be controlled uh from

275

00:09:57,590 --> 00:09:55,360

our internal crew member

276

00:10:00,389 --> 00:09:57,600

takuya onishi we'll be we'll be working

277

00:10:02,870 --> 00:10:00,399

that and ground teams will then do some

278

00:10:05,750 --> 00:10:02,880

operations to bring that adapter all the

279

00:10:07,350 --> 00:10:05,760

way into station and establish that uh

280

00:10:09,269 --> 00:10:07,360

that mating compartment that docking

281

00:10:12,069 --> 00:10:09,279

adapter for future commercial crew

282

00:10:15,430 --> 00:10:13,190

kate

283

00:10:17,670 --> 00:10:15,440

if we can get the mic back to you for a

284

00:10:19,509 --> 00:10:17,680

second this will be your first spacewalk

285

00:10:20,870 --> 00:10:19,519

always a prime milestone for any

286

00:10:22,389 --> 00:10:20,880

astronaut

287

00:10:24,389 --> 00:10:22,399

what are your thoughts and expectations

288

00:10:25,829 --> 00:10:24,399

what are you looking forward to the most

289

00:10:29,030 --> 00:10:25,839

as you step outside and become a

290

00:10:32,710 --> 00:10:31,110

well quite frankly i'm not sure how the

291

00:10:34,630 --> 00:10:32,720

view can get any better than it is from

292

00:10:37,430 --> 00:10:34,640

the cupola already so i don't know that

293

00:10:39,350 --> 00:10:37,440

i have any expectations beyond i can't

294

00:10:40,310 --> 00:10:39,360

even conceive of what this is going to

295

00:10:42,389 --> 00:10:40,320

be like

296

00:10:44,790 --> 00:10:42,399

in terms of the actual work we train for

297

00:10:46,790 --> 00:10:44,800

hundreds of hours and there's a huge

298

00:10:49,030 --> 00:10:46,800

amount of effort on the ground that goes

299

00:10:50,870 --> 00:10:49,040

into this we have teams

300

00:10:51,990 --> 00:10:50,880

in our neutral buoyancy lab that help

301

00:10:54,230 --> 00:10:52,000

train us

302

00:10:56,230 --> 00:10:54,240

they weigh us out so we have all six

303

00:10:58,550 --> 00:10:56,240

degrees of freedom and we can learn how

304

00:11:00,550 --> 00:10:58,560

to use the tools and all the operations

305

00:11:02,630 --> 00:11:00,560

there's an entire eva team on the ground

306

00:11:04,949 --> 00:11:02,640

that's helped us get ready for this

307

00:11:07,350 --> 00:11:04,959

spacewalk and and has done the training

308

00:11:09,670 --> 00:11:07,360

for both of us for a number of years and

309

00:11:11,590 --> 00:11:09,680

of course jeff is experienced at this

310

00:11:13,509 --> 00:11:11,600

but i think i'm just going to rely on

311

00:11:14,949 --> 00:11:13,519

the training in the uh the experience

312

00:11:16,550 --> 00:11:14,959

that i have on the ground and the

313

00:11:18,790 --> 00:11:16,560

preparation that those ground teams have

314

00:11:20,550 --> 00:11:18,800

given me and definitely we're going to

315

00:11:22,949 --> 00:11:20,560

be working hard but i will try to take a

316

00:11:25,190 --> 00:11:22,959

few moments to enjoy it and get a few

317

00:11:26,389 --> 00:11:25,200

pictures of this beautiful new hardware

318

00:11:27,590 --> 00:11:26,399

that we're adding to the front of space

319

00:11:29,350 --> 00:11:27,600

station

320

00:11:32,150 --> 00:11:29,360

and jeff for you this will be your

321

00:11:34,790 --> 00:11:32,160

fourth spacewalk spanning 16 years in

322

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

both u.s and russian spacesuits what

323

00:11:38,550 --> 00:11:36,480

sense of history do you have you're the

324

00:11:41,350 --> 00:11:38,560

history buff on board what sense of

325

00:11:43,350 --> 00:11:41,360

history do you have in yet another

326  
00:11:46,389 --> 00:11:43,360  
milestone being added to the chapter of

327  
00:11:48,630 --> 00:11:46,399  
the international space station

328  
00:11:50,949 --> 00:11:48,640  
oh my goodness well in the context of

329  
00:11:53,190 --> 00:11:50,959  
doing a spacewalk of course spacewalks

330  
00:11:55,269 --> 00:11:53,200  
uh are a big part of the history of the

331  
00:11:56,710 --> 00:11:55,279  
iss made it possible

332  
00:11:58,949 --> 00:11:56,720  
we've uh

333  
00:12:02,230 --> 00:11:58,959  
in the program i think it to date have

334  
00:12:05,829 --> 00:12:02,240  
accomplished going on 200 180 some or

335  
00:12:07,509 --> 00:12:05,839  
190 maybe now more spacewalks in the

336  
00:12:09,430 --> 00:12:07,519  
construction and maintenance of the

337  
00:12:11,829 --> 00:12:09,440  
space station and as you mentioned in

338  
00:12:12,870 --> 00:12:11,839

both u.s and russian suits

339

00:12:14,629 --> 00:12:12,880

uh

340

00:12:18,069 --> 00:12:14,639

and participants from all of the

341

00:12:20,230 --> 00:12:18,079

partners have have been in the core of

342

00:12:22,389 --> 00:12:20,240

the cadre of astronauts and cosmonauts

343

00:12:24,230 --> 00:12:22,399

that have conducted that so that's a big

344

00:12:26,629 --> 00:12:24,240

part of the history in terms of the the

345

00:12:30,230 --> 00:12:26,639

ida the docking adapter that opens the

346

00:12:31,190 --> 00:12:30,240

door to commercial crew vehicles

347

00:12:33,509 --> 00:12:31,200

and

348

00:12:35,509 --> 00:12:33,519

that is the next

349

00:12:37,750 --> 00:12:35,519

major chapter on the horizon being

350

00:12:39,110 --> 00:12:37,760

developed in the plan

351  
00:12:40,470 --> 00:12:39,120  
to fly

352  
00:12:42,069 --> 00:12:40,480  
and of course we don't know what that's

353  
00:12:44,389 --> 00:12:42,079  
going to open up in the future but it is

354  
00:12:45,269 --> 00:12:44,399  
a significant door opening up in the

355  
00:12:49,430 --> 00:12:45,279  
human

356  
00:12:51,110 --> 00:12:49,440  
exploration that in the context of the

357  
00:12:53,269 --> 00:12:51,120  
iss which again

358  
00:12:55,910 --> 00:12:53,279  
is the the most significant

359  
00:12:57,990 --> 00:12:55,920  
technological achievement in my opinion

360  
00:12:59,990 --> 00:12:58,000  
in history when you consider the

361  
00:13:01,430 --> 00:13:00,000  
complexity of this thing how long it's

362  
00:13:03,509 --> 00:13:01,440  
been flying

363  
00:13:05,750 --> 00:13:03,519

the international scope of it the

364

00:13:07,670 --> 00:13:05,760

technological scope of it

365

00:13:10,470 --> 00:13:07,680

and then the fact that we sustain it

366

00:13:13,269 --> 00:13:10,480

logistically and operationally for so

367

00:13:14,870 --> 00:13:13,279

long and the partnership itself among

368

00:13:16,790 --> 00:13:14,880

all the partners has never been better

369

00:13:18,470 --> 00:13:16,800

in my opinion and my experience in the

370

00:13:20,949 --> 00:13:18,480

across the entire program it's never

371

00:13:23,670 --> 00:13:20,959

been better than it is right now so even

372

00:13:26,949 --> 00:13:23,680

from an international relations point of

373

00:13:29,509 --> 00:13:26,959

view i trust that it serves as a very

374

00:13:31,670 --> 00:13:29,519

positive example to the world below

375

00:13:33,509 --> 00:13:31,680

a new era in human space flight about to

376

00:13:35,750 --> 00:13:33,519

dawn on the international space station

377

00:13:37,910 --> 00:13:35,760

through your spacewalk we'll be watching

378

00:13:40,069 --> 00:13:37,920

and uh looking forward to every minute

379

00:13:42,150 --> 00:13:40,079

of it for jeff and kate thank you so

380

00:13:44,389 --> 00:13:42,160

much for your time today we appreciate

381

00:13:48,150 --> 00:13:44,399

it all the best as your colleague floats

382

00:13:49,910 --> 00:13:48,160

through and uh fly safe

383

00:13:54,790 --> 00:13:49,920

thank you very much rob great talking to

384

00:14:01,990 --> 00:13:56,470

station this is houston acr that

385

00:14:06,949 --> 00:14:04,949

thank you jscpao station please stand by