



1  
00:00:04,470 --> 00:00:02,710  
associated press this is mission control

2  
00:00:05,749 --> 00:00:04,480  
houston please call station for a voice

3  
00:00:07,829 --> 00:00:05,759  
check

4  
00:00:12,150 --> 00:00:07,839  
space station this is the associated

5  
00:00:15,270 --> 00:00:13,990  
hey p hello we have you loud and clear

6  
00:00:16,470 --> 00:00:15,280  
welcome aboard the international space

7  
00:00:18,470 --> 00:00:16,480  
station

8  
00:00:20,790 --> 00:00:18,480  
well hello everybody and a happy new

9  
00:00:22,550 --> 00:00:20,800  
year to you all i'm speaking to you from

10  
00:00:23,509 --> 00:00:22,560  
the kennedy space center in florida

11  
00:00:25,189 --> 00:00:23,519  
today

12  
00:00:26,790 --> 00:00:25,199  
uh it looks like you're gonna have to

13  
00:00:28,790 --> 00:00:26,800

wait a little longer for your next

14

00:00:30,950 --> 00:00:28,800

grocery delivery i'm wondering if you

15

00:00:32,950 --> 00:00:30,960

were watching the launch countdown live

16

00:00:37,910 --> 00:00:32,960

this morning and how disappointed are

17

00:00:41,270 --> 00:00:39,910

oh yes we were watching and certainly

18

00:00:42,709 --> 00:00:41,280

there's a little bit of disappointment

19

00:00:43,910 --> 00:00:42,719

because it had

20

00:00:45,029 --> 00:00:43,920

you know fresh fruit and those type of

21

00:00:46,709 --> 00:00:45,039

things that we're all interested in

22

00:00:48,549 --> 00:00:46,719

getting and other things of course but

23

00:00:51,430 --> 00:00:48,559

uh they'll get off the ground here in a

24

00:00:53,189 --> 00:00:51,440

couple of days and it'll all be great

25

00:00:55,590 --> 00:00:53,199

i'm assuming you all have christmas

26

00:01:01,750 --> 00:00:55,600

presents on board the dragon

27

00:01:05,590 --> 00:01:03,830

yes we do have christmas presents on

28

00:01:06,870 --> 00:01:05,600

board but i don't know what they are

29

00:01:10,149 --> 00:01:06,880

because we have to wait to open them up

30

00:01:13,670 --> 00:01:10,159

so i'll let you know here in a few days

31

00:01:15,749 --> 00:01:13,680

well wonderful um i'm for each of you i

32

00:01:18,310 --> 00:01:15,759

suppose i i'd like to hear your thoughts

33

00:01:20,870 --> 00:01:18,320

on the upcoming one-year mission um by

34

00:01:22,950 --> 00:01:20,880

scott kelly and mikhail kornienko

35

00:01:25,429 --> 00:01:22,960

how difficult do you think it'll be for

36

00:01:32,710 --> 00:01:25,439

them to spend a solid year in space and

37

00:01:38,710 --> 00:01:36,069

well terry and i have arrived here about

38

00:01:40,710 --> 00:01:38,720

oh it's probably six weeks now

39

00:01:42,710 --> 00:01:40,720

and uh i can tell you i've loved every

40

00:01:44,710 --> 00:01:42,720

moment of it so far i'm i'm not

41

00:01:48,069 --> 00:01:44,720

necessarily uh looking forward to go

42

00:01:48,950 --> 00:01:48,079

back um so from my perspective right now

43

00:01:50,230 --> 00:01:48,960

um

44

00:01:52,310 --> 00:01:50,240

i think it's great to spend a lot of

45

00:01:54,389 --> 00:01:52,320

time up here um of course as time

46

00:01:56,870 --> 00:01:54,399

progresses it might become challenging

47

00:01:59,350 --> 00:01:56,880

to be away from home and and of course i

48

00:02:01,109 --> 00:01:59,360

i'm i wish them strength in that sense

49

00:02:02,950 --> 00:02:01,119

and of course i wish them to to be able

50

00:02:04,709 --> 00:02:02,960

to stay healthy for for a whole year i

51  
00:02:06,389 --> 00:02:04,719  
think that's going to be a an important

52  
00:02:08,229 --> 00:02:06,399  
challenge and that's why one of the

53  
00:02:09,109 --> 00:02:08,239  
reasons why they're doing that to see

54  
00:02:10,710 --> 00:02:09,119  
how

55  
00:02:12,550 --> 00:02:10,720  
the human body reacts to such a

56  
00:02:16,710 --> 00:02:12,560  
prolonged exposure to microgravity and

57  
00:02:22,070 --> 00:02:18,309  
perhaps i think one of the biggest

58  
00:02:25,589 --> 00:02:24,150  
go ahead a little delay there we keep

59  
00:02:26,949 --> 00:02:25,599  
stepping on each other a little bit yes

60  
00:02:29,270 --> 00:02:26,959  
i was just going to say that i think one

61  
00:02:31,030 --> 00:02:29,280  
of the biggest challenges is maintaining

62  
00:02:34,150 --> 00:02:31,040  
a focus because

63  
00:02:36,070 --> 00:02:34,160

every single step of every single task

64

00:02:37,750 --> 00:02:36,080

is very important everything that we do

65

00:02:41,030 --> 00:02:37,760

and it's a wide variety of things that

66

00:02:43,110 --> 00:02:41,040

we do and to maintain that mental focus

67

00:02:45,030 --> 00:02:43,120

for six months is difficult and and to

68

00:02:46,229 --> 00:02:45,040

do it for an entire year i've just got

69

00:02:48,470 --> 00:02:46,239

to think it's got to be even more

70

00:02:49,750 --> 00:02:48,480

difficult because what we do is very

71

00:02:51,589 --> 00:02:49,760

important you don't want to make any

72

00:02:53,670 --> 00:02:51,599

mistakes mistakes are inevitable we're

73

00:02:54,949 --> 00:02:53,680

human so you want to minimize those so

74

00:02:57,030 --> 00:02:54,959

maintaining that

75

00:02:58,390 --> 00:02:57,040

mental excuse me mental focus i think

76  
00:02:59,830 --> 00:02:58,400  
will be challenging so maybe a couple of

77  
00:03:01,190 --> 00:02:59,840  
three day weekends those type of things

78  
00:03:05,350 --> 00:03:01,200  
to let their brain kind of relax a

79  
00:03:09,190 --> 00:03:07,830  
well thank you for for that ins site we

80  
00:03:11,670 --> 00:03:09,200  
learned at

81  
00:03:14,869 --> 00:03:11,680  
the the news conference yesterday that

82  
00:03:16,949 --> 00:03:14,879  
nasa and the other station partners are

83  
00:03:19,110 --> 00:03:16,959  
hoping to fly maybe 12 one-year crew

84  
00:03:22,550 --> 00:03:19,120  
members all together to get more sample

85  
00:03:24,710 --> 00:03:22,560  
subjects for the life science people

86  
00:03:27,430 --> 00:03:24,720  
what's your take on how easy it might be

87  
00:03:29,350 --> 00:03:27,440  
to wrestle up more crewmates

88  
00:03:31,670 --> 00:03:29,360

willing to spend a solid year in space

89

00:03:38,949 --> 00:03:31,680

and would you guys be interested

90

00:03:42,229 --> 00:03:40,470

the

91

00:03:44,149 --> 00:03:42,239

doing a one-year flight is actually a

92

00:03:45,750 --> 00:03:44,159

pretty significant challenge for our

93

00:03:46,949 --> 00:03:45,760

office because of

94

00:03:48,390 --> 00:03:46,959

the number of flight assignments that

95

00:03:51,350 --> 00:03:48,400

are available is pretty small and so

96

00:03:52,309 --> 00:03:51,360

that takes up two flight assignments but

97

00:03:54,869 --> 00:03:52,319

i'm sure that we'll have enough

98

00:03:56,309 --> 00:03:54,879

volunteers that won't be a problem

99

00:03:57,750 --> 00:03:56,319

and of course the science folks know

100

00:03:59,110 --> 00:03:57,760

what science objectives they're looking

101  
00:04:00,789 --> 00:03:59,120  
for and they can

102  
00:04:02,309 --> 00:04:00,799  
determine what's necessary what we need

103  
00:04:05,429 --> 00:04:02,319  
to do

104  
00:04:07,750 --> 00:04:05,439  
for those flights in the future

105  
00:04:10,550 --> 00:04:07,760  
well how how necessary do you think it

106  
00:04:19,749 --> 00:04:10,560  
is to to do these when your stints if if

107  
00:04:24,390 --> 00:04:21,909  
it's um

108  
00:04:25,670 --> 00:04:24,400  
i think the the question for mars is how

109  
00:04:27,270 --> 00:04:25,680  
we're gonna get there if we take a

110  
00:04:28,629 --> 00:04:27,280  
conventional rocket it takes about six

111  
00:04:29,749 --> 00:04:28,639  
to nine months to get there before

112  
00:04:31,590 --> 00:04:29,759  
you're on the surface and the same

113  
00:04:33,350 --> 00:04:31,600

amount of time to get back and if you

114

00:04:34,870 --> 00:04:33,360

take uh electric propulsion if we

115

00:04:36,950 --> 00:04:34,880

develop a new system you could get there

116

00:04:39,030 --> 00:04:36,960

in only a couple months so the the

117

00:04:40,150 --> 00:04:39,040

question for mars is really

118

00:04:42,870 --> 00:04:40,160

how are we going to get there when it

119

00:04:44,390 --> 00:04:42,880

comes to the propulsion and

120

00:04:45,749 --> 00:04:44,400

but i want to echo what samantha said

121

00:04:47,749 --> 00:04:45,759

earlier we've been here this is our

122

00:04:49,189 --> 00:04:47,759

seventh week now in space and i'm

123

00:04:50,629 --> 00:04:49,199

already thinking man there's not enough

124

00:04:51,830 --> 00:04:50,639

time there's a lot more

125

00:04:53,030 --> 00:04:51,840

that i want to do i don't know if i'm

126  
00:04:54,469 --> 00:04:53,040  
gonna have enough time to get it done in

127  
00:04:56,390 --> 00:04:54,479  
six months so

128  
00:04:57,670 --> 00:04:56,400  
and i know scott real well he's he's

129  
00:04:59,430 --> 00:04:57,680  
going to handle it he's going to handle

130  
00:05:01,270 --> 00:04:59,440  
it very well and my goal on expedition

131  
00:05:03,189 --> 00:05:01,280  
43 is to make sure we get him off on the

132  
00:05:05,430 --> 00:05:03,199  
on the right foot for his one-year

133  
00:05:07,510 --> 00:05:05,440  
flight and uh i i'm sure he's going to

134  
00:05:09,909 --> 00:05:07,520  
do great

135  
00:05:12,150 --> 00:05:09,919  
uh for captain christa ferretti

136  
00:05:14,870 --> 00:05:12,160  
my question for you specifically is how

137  
00:05:16,790 --> 00:05:14,880  
is the space station coffee

138  
00:05:19,189 --> 00:05:16,800

and do you still expect to see the

139

00:05:25,270 --> 00:05:19,199

italian espresso machine fly up on your

140

00:05:29,270 --> 00:05:27,830

well the space station coffee is not bad

141

00:05:30,950 --> 00:05:29,280

um it could be it could be a lot of

142

00:05:33,670 --> 00:05:30,960

worse um

143

00:05:35,990 --> 00:05:33,680

so i'm not complaining in any way but uh

144

00:05:38,230 --> 00:05:36,000

i am indeed looking forward to uh to the

145

00:05:39,830 --> 00:05:38,240

espresso machine and

146

00:05:42,550 --> 00:05:39,840

of course there is some some challenges

147

00:05:44,790 --> 00:05:42,560

with the resupply now as we know but

148

00:05:46,710 --> 00:05:44,800

i have heard good news and uh there is

149

00:05:49,510 --> 00:05:46,720

actually still a pretty good likelihood

150

00:05:51,590 --> 00:05:49,520

that it will be up here before i leave

151

00:05:55,909 --> 00:05:51,600

and so i'm really looking forward to try

152

00:05:59,430 --> 00:05:57,590

well wonderful i'm assuming that it

153

00:06:01,510 --> 00:05:59,440

might be on the follow-on dragon mission

154

00:06:07,110 --> 00:06:01,520

then or might a progress take it up at

155

00:06:11,029 --> 00:06:08,870

well as far as i understand progress is

156

00:06:13,430 --> 00:06:11,039

not an option but there is an open

157

00:06:15,189 --> 00:06:13,440

option for the next dragon so that is my

158

00:06:17,670 --> 00:06:15,199

hope right now

159

00:06:20,230 --> 00:06:17,680

and and have you brought up any other

160

00:06:21,670 --> 00:06:20,240

italian food specialties to enjoy with

161

00:06:23,510 --> 00:06:21,680

your crew or maybe you've already

162

00:06:29,110 --> 00:06:23,520

gobbled all that up for the new year's

163

00:06:33,990 --> 00:06:31,430

i have brought up some food that was

164

00:06:37,749 --> 00:06:34,000

made special especially based on my

165

00:06:40,950 --> 00:06:37,759

preferences i did not focus so much on

166

00:06:43,749 --> 00:06:40,960

traditional italian cuisine but i um i

167

00:06:45,990 --> 00:06:43,759

focused on recipes that is um that

168

00:06:47,590 --> 00:06:46,000

employ a very very nutritious

169

00:06:49,430 --> 00:06:47,600

ingredients i thought it was very

170

00:06:51,270 --> 00:06:49,440

important to bring up food that would

171

00:06:53,350 --> 00:06:51,280

help me to stay healthy in this very

172

00:06:55,909 --> 00:06:53,360

challenging environment and so i have

173

00:06:57,909 --> 00:06:55,919

some pouches with the ready-made meals

174

00:06:59,749 --> 00:06:57,919

that are just just very very good for

175

00:07:01,510 --> 00:06:59,759

your health

176  
00:07:03,350 --> 00:07:01,520  
and just to give you an example i have a

177  
00:07:04,469 --> 00:07:03,360  
quinoa salad with

178  
00:07:05,990 --> 00:07:04,479  
mackerel

179  
00:07:09,990 --> 00:07:06,000  
and i have

180  
00:07:12,790 --> 00:07:10,000  
some curry chicken with mushrooms and

181  
00:07:14,870 --> 00:07:12,800  
some some muesli with plenty of

182  
00:07:16,790 --> 00:07:14,880  
you know really healthy nuts and fruits

183  
00:07:19,270 --> 00:07:16,800  
for breakfast and so it's it's been

184  
00:07:23,589 --> 00:07:19,280  
great to have that on board

185  
00:07:27,430 --> 00:07:25,270  
tell me

186  
00:07:30,070 --> 00:07:27,440  
two of your big experiments robonaut in

187  
00:07:31,990 --> 00:07:30,080  
the 3d printer how's robonaut doing with

188  
00:07:34,629 --> 00:07:32,000

its new legs i haven't heard too much

189

00:07:36,550 --> 00:07:34,639

about it lately and have you made

190

00:07:37,830 --> 00:07:36,560

anything functional yet with that 3d

191

00:07:41,909 --> 00:07:37,840

printer that you're you're actually

192

00:07:44,950 --> 00:07:43,589

well i'll talk about robonaut he's

193

00:07:46,869 --> 00:07:44,960

actually

194

00:07:48,629 --> 00:07:46,879

right there right behind me and um we

195

00:07:49,670 --> 00:07:48,639

had him out uh probably about two weeks

196

00:07:52,790 --> 00:07:49,680

ago

197

00:07:54,710 --> 00:07:52,800

uh and got him powered up and and we ran

198

00:07:56,469 --> 00:07:54,720

out of time we weren't able to get a lot

199

00:07:57,990 --> 00:07:56,479

of motion out of him but uh that's

200

00:07:59,029 --> 00:07:58,000

coming in the near future so yes he's

201  
00:08:00,710 --> 00:07:59,039  
been out

202  
00:08:02,070 --> 00:08:00,720  
um we woke him up but he's back

203  
00:08:03,830 --> 00:08:02,080  
hibernating again i'll let butch talk

204  
00:08:06,710 --> 00:08:03,840  
about the 3d printer that which is right

205  
00:08:11,670 --> 00:08:08,950  
yeah the 3d printer was pretty amazing

206  
00:08:14,790 --> 00:08:11,680  
watched some items print out we made a

207  
00:08:16,469 --> 00:08:14,800  
what i called a honey jar and just a cap

208  
00:08:18,230 --> 00:08:16,479  
in the in the jar itself fit together

209  
00:08:19,990 --> 00:08:18,240  
perfectly though they printed separately

210  
00:08:21,350 --> 00:08:20,000  
which i thought was very intriguing very

211  
00:08:22,629 --> 00:08:21,360  
interesting of course they wouldn't let

212  
00:08:24,550 --> 00:08:22,639  
me put honey in it because they have to

213  
00:08:25,749 --> 00:08:24,560

take it back to earth and assess how it

214

00:08:27,990 --> 00:08:25,759

all came out

215

00:08:30,070 --> 00:08:28,000

also a ratchet wrench we made a ratchet

216

00:08:31,990 --> 00:08:30,080

wrench of course again they wouldn't let

217

00:08:33,670 --> 00:08:32,000

me use it though i wanted to

218

00:08:35,829 --> 00:08:33,680

because they'll have to send it back and

219

00:08:37,190 --> 00:08:35,839

like i said assess it so anyway it's

220

00:08:39,269 --> 00:08:37,200

pretty pretty intriguing pretty neat

221

00:08:40,870 --> 00:08:39,279

pretty neat science

222

00:08:44,070 --> 00:08:40,880

well i'm wondering if you could share

223

00:08:46,230 --> 00:08:44,080

your new year new year's resolutions um

224

00:08:48,470 --> 00:08:46,240

from space um

225

00:08:49,910 --> 00:08:48,480

what are they

226

00:08:51,750 --> 00:08:49,920

and and how was your new year's eve

227

00:08:55,670 --> 00:08:51,760

celebration i should say how was ringing

228

00:08:59,430 --> 00:08:57,110

new year's was great going around the

229

00:09:01,190 --> 00:08:59,440

earth 16 times we got to cross you know

230

00:09:02,710 --> 00:09:01,200

midnight somewhere on earth 16 times

231

00:09:04,389 --> 00:09:02,720

that was a lot of fun unfortunately we

232

00:09:05,750 --> 00:09:04,399

were almost always over the ocean so we

233

00:09:07,430 --> 00:09:05,760

didn't get a chance to look and see if

234

00:09:09,990 --> 00:09:07,440

we could see fireworks you know over

235

00:09:11,590 --> 00:09:10,000

london or washington or new york or

236

00:09:13,670 --> 00:09:11,600

moscow or any place like that but it was

237

00:09:15,190 --> 00:09:13,680

a lot of fun so i've resolved to spend

238

00:09:16,949 --> 00:09:15,200

more time on the ceiling this year in

239

00:09:18,470 --> 00:09:16,959

2014 i spent way too much time on the

240

00:09:19,670 --> 00:09:18,480

floor so i'm going to try and get up

241

00:09:25,190 --> 00:09:19,680

there on the ceiling that's one of my

242

00:09:28,949 --> 00:09:27,269

yeah i guess my new year's resolution is

243

00:09:30,630 --> 00:09:28,959

to start doing more and more video here

244

00:09:32,870 --> 00:09:30,640

on board of the space station just to to

245

00:09:34,949 --> 00:09:32,880

document the the amazing life and work

246

00:09:37,670 --> 00:09:34,959

that we do up here a little bit more and

247

00:09:39,430 --> 00:09:37,680

as far as our new year's celebrations go

248

00:09:40,630 --> 00:09:39,440

um

249

00:09:42,630 --> 00:09:40,640

i'd like to mention that we actually

250

00:09:44,389 --> 00:09:42,640

danced i didn't i didn't quite know if

251

00:09:46,310 --> 00:09:44,399

it would be possible to dance in in

252

00:09:48,310 --> 00:09:46,320

weightlessness but uh we gave it a try

253

00:09:50,470 --> 00:09:48,320

it was fun i i'm not sure that it looked

254

00:09:52,070 --> 00:09:50,480

like dancing from the outside but we

255

00:09:56,710 --> 00:09:52,080

felt like we were dancing and so that's

256

00:10:00,470 --> 00:09:58,710

well well i didn't make any new year's

257

00:10:03,509 --> 00:10:00,480

resolutions but i like terry so i'm

258

00:10:05,910 --> 00:10:03,519

going to spend some time on the ceiling

259

00:10:08,069 --> 00:10:05,920

well listen all all of you all all three

260

00:10:10,710 --> 00:10:08,079

and all six of you um

261

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

god speed on your travels and and have a

262

00:10:14,949 --> 00:10:13,760

wonderful new year buanano uh

263

00:10:20,150 --> 00:10:14,959

to uh

264

00:10:25,110 --> 00:10:21,670

thank you very much and happy new year

265

00:10:25,120 --> 00:10:30,150

station this is houston acr

266

00:10:33,910 --> 00:10:31,910

that concludes the associated press

267

00:10:39,030 --> 00:10:33,920

portion of the event please stand by for

268

00:10:45,110 --> 00:10:41,670

space station this is kgo how do you

269

00:10:48,310 --> 00:10:46,389

loud and clear

270

00:10:51,910 --> 00:10:48,320

how do you hear us

271

00:10:53,750 --> 00:10:51,920

great thank you good great good morning

272

00:10:57,509 --> 00:10:53,760

thank you for making time for us this is

273

00:10:59,670 --> 00:10:57,519

san francisco calling um

274

00:11:01,509 --> 00:10:59,680

can you tell me about today's launch and

275

00:11:05,750 --> 00:11:01,519

how you guys feel about it or it didn't

276

00:11:08,949 --> 00:11:07,269

that's right we were we were actually

277

00:11:09,829 --> 00:11:08,959

watching mission control in houston was

278

00:11:11,910 --> 00:11:09,839

able to

279

00:11:13,430 --> 00:11:11,920

send up some live video and we knew the

280

00:11:15,030 --> 00:11:13,440

weather was a little bit iffy today so

281

00:11:16,470 --> 00:11:15,040

it wasn't a big surprise

282

00:11:18,630 --> 00:11:16,480

we'll just wait a few days and and

283

00:11:20,389 --> 00:11:18,640

they'll launch when they're ready to go

284

00:11:22,710 --> 00:11:20,399

we're definitely looking forward to the

285

00:11:24,069 --> 00:11:22,720

cargo that spacex 5 will be bringing up

286

00:11:25,750 --> 00:11:24,079

to us

287

00:11:26,949 --> 00:11:25,760

personally we all have food and some

288

00:11:28,470 --> 00:11:26,959

christmas presents on there that we're

289

00:11:29,269 --> 00:11:28,480

looking forward to but more importantly

290

00:11:31,350 --> 00:11:29,279

there's

291

00:11:32,949 --> 00:11:31,360

some good science and some equipment

292

00:11:34,949 --> 00:11:32,959

that we'll need for future spacewalks on

293

00:11:36,069 --> 00:11:34,959

there so it's an important resupply

294

00:11:37,750 --> 00:11:36,079

mission just like they're all very

295

00:11:41,030 --> 00:11:37,760

important resupply missions to the space

296

00:11:44,389 --> 00:11:42,550

other than the christmas presents from

297

00:11:46,230 --> 00:11:44,399

your loved ones what's the one thing

298

00:11:48,310 --> 00:11:46,240

that you really

299

00:11:54,949 --> 00:11:48,320

looking forward to personally on the

300

00:11:59,269 --> 00:11:57,190

well i hate to i'll be honest and i'll

301  
00:12:00,949 --> 00:11:59,279  
just tell you you know uh when you come

302  
00:12:02,389 --> 00:12:00,959  
up here your tastes change a little bit

303  
00:12:04,790 --> 00:12:02,399  
a lot of people probably don't know that

304  
00:12:06,230 --> 00:12:04,800  
but you like spicy food and and there's

305  
00:12:08,310 --> 00:12:06,240  
not a lot of spicy we ran out of

306  
00:12:09,990 --> 00:12:08,320  
condiments about a month and a half ago

307  
00:12:12,629 --> 00:12:10,000  
so i'm looking forward to getting some

308  
00:12:17,509 --> 00:12:12,639  
yellow mustard and make this food just a

309  
00:12:22,550 --> 00:12:19,750  
can you talk about the importance of

310  
00:12:29,590 --> 00:12:22,560  
this rocket this particular one and the

311  
00:12:33,030 --> 00:12:31,350  
i think you're referring to the they're

312  
00:12:35,350 --> 00:12:33,040  
going to try to land on a barge which

313  
00:12:37,110 --> 00:12:35,360

will be pretty amazing and

314

00:12:38,629 --> 00:12:37,120

the real benefit there is an economic

315

00:12:40,310 --> 00:12:38,639

one if you can reuse the boosters i

316

00:12:42,310 --> 00:12:40,320

think that's going to reduce the cost of

317

00:12:43,829 --> 00:12:42,320

launching to space which of course is

318

00:12:45,590 --> 00:12:43,839

important it's the biggest limiting

319

00:12:47,110 --> 00:12:45,600

factor we have in getting to space is

320

00:12:48,710 --> 00:12:47,120

the cost and so

321

00:12:50,870 --> 00:12:48,720

if they're successful in being able to

322

00:12:55,350 --> 00:12:50,880

reuse the first stage booster that'll

323

00:12:59,990 --> 00:12:57,750

can you talk about as an astronaut as

324

00:13:01,590 --> 00:13:00,000

far as reusing this

325

00:13:09,110 --> 00:13:01,600

equipment and

326

00:13:12,550 --> 00:13:10,870

well i think the greatest example is the

327

00:13:14,470 --> 00:13:12,560

space shuttle which we just retired you

328

00:13:17,590 --> 00:13:14,480

know just a couple of years ago uh the

329

00:13:19,430 --> 00:13:17,600

reusable uh as we reused it to gosh 135

330

00:13:22,150 --> 00:13:19,440

flights we did on on the space shuttle

331

00:13:23,670 --> 00:13:22,160

with reusable engines reusable avionics

332

00:13:25,350 --> 00:13:23,680

everything of course which brought the

333

00:13:27,269 --> 00:13:25,360

cost down substantially over what it

334

00:13:28,790 --> 00:13:27,279

would cost to build a new one every time

335

00:13:33,110 --> 00:13:28,800

so obviously there's there's the

336

00:13:38,470 --> 00:13:35,829

and um for our viewers here the bay area

337

00:13:40,790 --> 00:13:38,480

in san francisco there's some kids in

338

00:13:43,110 --> 00:13:40,800

oakland i believe that have experiments

339

00:13:45,430 --> 00:13:43,120

on this cargo talk about

340

00:13:47,750 --> 00:13:45,440

the experience

341

00:13:49,750 --> 00:13:47,760

experiments that are going to you and

342

00:13:58,310 --> 00:13:49,760

how do you communicate with these people

343

00:14:04,629 --> 00:14:00,550

i think one of you like to twitter

344

00:14:07,430 --> 00:14:06,069

now we are

345

00:14:10,069 --> 00:14:07,440

of course looking forward to the science

346

00:14:12,150 --> 00:14:10,079

that is coming up um

347

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

i am uh in particular looking forward of

348

00:14:16,870 --> 00:14:14,720

course as an uh is an astronaut to some

349

00:14:18,949 --> 00:14:16,880

esa and as italian space agency

350

00:14:21,509 --> 00:14:18,959

experiments that are coming up on

351

00:14:24,069 --> 00:14:21,519

a dragon which include for example

352

00:14:25,829 --> 00:14:24,079

airway monitoring or triple looks or

353

00:14:28,389 --> 00:14:25,839

some hardware that was actually lost on

354

00:14:30,949 --> 00:14:28,399

the unfortunate mishap earlier or

355

00:14:34,710 --> 00:14:30,959

last year and that is being replaced um

356

00:14:37,750 --> 00:14:34,720

for experiments studying uh venus of

357

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

blood circulation and and sleep and uh

358

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

as far as uh doing stuff with kids

359

00:14:43,670 --> 00:14:41,600

that's of course always very exciting i

360

00:14:45,990 --> 00:14:43,680

actually look forward to in a couple of

361

00:14:48,550 --> 00:14:46,000

weeks i believe or even less uh with

362

00:14:50,550 --> 00:14:48,560

yelena my russian crewmate

363

00:14:52,629 --> 00:14:50,560

we're going to be supporting the

364

00:14:55,269 --> 00:14:52,639

finals of the competition zero robotics

365

00:14:57,189 --> 00:14:55,279

up here so we have this three spheres

366

00:14:59,269 --> 00:14:57,199

that actually can be controlled inside

367

00:15:01,189 --> 00:14:59,279

the cabin and we will run software

368

00:15:03,269 --> 00:15:01,199

developed by students throughout the

369

00:15:05,110 --> 00:15:03,279

world and they will actually compete

370

00:15:07,030 --> 00:15:05,120

here on board we will run that software

371

00:15:09,750 --> 00:15:07,040

and those spheres will fly in the

372

00:15:14,949 --> 00:15:09,760

japanese modules and we'll see who wins

373

00:15:21,430 --> 00:15:17,269

and do you communicate with them via

374

00:15:25,829 --> 00:15:23,590

we do actually we all

375

00:15:29,030 --> 00:15:25,839

use twitter i'm astro terry she's astro

376

00:15:30,710 --> 00:15:29,040

samantha and butch's astro butch and

377

00:15:32,389 --> 00:15:30,720

that's probably one of the best ways to

378

00:15:33,829 --> 00:15:32,399

communicate with folks we love sending

379

00:15:35,829 --> 00:15:33,839

out the pictures that we take the views

380

00:15:38,230 --> 00:15:35,839

here are just unbelievable sometimes

381

00:15:39,910 --> 00:15:38,240

we'll post pictures of us inside doing

382

00:15:41,670 --> 00:15:39,920

the things that astronauts do on a daily

383

00:15:43,509 --> 00:15:41,680

basis it's a really easy way for the

384

00:15:45,110 --> 00:15:43,519

public to see what we do

385

00:15:46,790 --> 00:15:45,120

and uh to share in the adventure that

386

00:15:48,629 --> 00:15:46,800

we're having

387

00:15:52,310 --> 00:15:48,639

in a small way or actually in a big way

388

00:16:02,710 --> 00:15:53,749

is there any other form of

389

00:16:06,550 --> 00:16:04,389

well i i

390

00:16:08,629 --> 00:16:06,560

make an effort to write a daily

391

00:16:10,069 --> 00:16:08,639

logbook so a short account of what

392

00:16:11,430 --> 00:16:10,079

happened during the day and my

393

00:16:12,949 --> 00:16:11,440

perspective

394

00:16:14,629 --> 00:16:12,959

of course the stuff that we do in terms

395

00:16:17,269 --> 00:16:14,639

of science and maintenance but also just

396

00:16:19,110 --> 00:16:17,279

my observations in terms of adapting to

397

00:16:21,590 --> 00:16:19,120

the life on the space station and and

398

00:16:23,189 --> 00:16:21,600

little things that surprise me

399

00:16:25,110 --> 00:16:23,199

or just you know how we celebrated

400

00:16:27,670 --> 00:16:25,120

christmas eve for example

401  
00:16:29,430 --> 00:16:27,680  
so i i try to do that and it's my way to

402  
00:16:31,030 --> 00:16:29,440  
try and share as much as possible of

403  
00:16:34,790 --> 00:16:31,040  
this amazing experience that i am

404  
00:16:40,870 --> 00:16:37,590  
we also have uh instagram is used and

405  
00:16:42,230 --> 00:16:40,880  
the nasa websites are used

406  
00:16:45,110 --> 00:16:42,240  
so there's other ways besides just

407  
00:16:46,870 --> 00:16:45,120  
twitter instagram the nasa.gov website

408  
00:16:48,069 --> 00:16:46,880  
um like samantha said google so there's

409  
00:16:52,870 --> 00:16:48,079  
other things but here she is for your

410  
00:16:57,269 --> 00:16:54,949  
samantha it sounds like you've been

411  
00:16:59,509 --> 00:16:57,279  
schooled in france german

412  
00:17:01,749 --> 00:16:59,519  
italian italy

413  
00:17:04,309 --> 00:17:01,759

i think you speak chinese as well do you

414

00:17:07,110 --> 00:17:04,319

have any messages to say to the bay area

415

00:17:09,029 --> 00:17:07,120

we have a diverse community here maybe

416

00:17:11,189 --> 00:17:09,039

say it in a different language like

417

00:17:15,829 --> 00:17:11,199

greetings from

418

00:17:19,029 --> 00:17:17,350

of course i do have to say i don't

419

00:17:20,789 --> 00:17:19,039

really speak chinese i have only started

420

00:17:24,069 --> 00:17:20,799

to learn it and it's my big project for

421

00:17:25,750 --> 00:17:24,079

my when i get back to to the planet but

422

00:17:27,270 --> 00:17:25,760

yeah i've been in san francisco in the

423

00:17:29,590 --> 00:17:27,280

bay area actually have many friends

424

00:17:32,390 --> 00:17:29,600

there um it's a city i i love i always

425

00:17:34,630 --> 00:17:32,400

enjoy visiting so

426

00:17:37,110 --> 00:17:34,640

ciao at antiagora san francisco

427

00:17:46,150 --> 00:17:39,110

in beltram san francisco

428

00:17:55,669 --> 00:17:48,070

and fellas you have any greetings you

429

00:17:59,270 --> 00:17:57,750

well yeah i'd like to say um san

430

00:18:01,110 --> 00:17:59,280

francisco is one of my favorite places

431

00:18:02,390 --> 00:18:01,120

in america actually butch and i both

432

00:18:04,070 --> 00:18:02,400

learned how to land the space shuttle

433

00:18:05,029 --> 00:18:04,080

there at nasa ames

434

00:18:06,870 --> 00:18:05,039

and

435

00:18:10,150 --> 00:18:06,880

i've got 15 years of great memories of

436

00:18:12,310 --> 00:18:10,160

going out there for nasa and i miss it

437

00:18:13,430 --> 00:18:12,320

and i'd love to have an in-n-out burger

438

00:18:16,950 --> 00:18:13,440

right now too that's one of the main

439

00:18:18,549 --> 00:18:16,960

things i missed from san francisco so

440

00:18:26,950 --> 00:18:18,559

that's definitely on our to-do list

441

00:18:33,029 --> 00:18:28,630

i'm sorry was that butch or is that

442

00:18:37,029 --> 00:18:35,270

yeah that was terry i have one minute

443

00:18:39,190 --> 00:18:37,039

for this interview is there anything

444

00:18:43,190 --> 00:18:39,200

else you'd like to say before we wrap

445

00:18:43,200 --> 00:18:47,669

thank you peter

446

00:18:52,950 --> 00:18:49,909

well we do we do appreciate the support

447

00:18:54,630 --> 00:18:52,960

of all uh americans across the nation

448

00:18:56,390 --> 00:18:54,640

and actually everyone across the globe

449

00:18:58,549 --> 00:18:56,400

is this international cooperation

450

00:19:00,230 --> 00:18:58,559

so it's it's a huge effort and it's

451

00:19:02,390 --> 00:19:00,240

involving hundreds of thousands of

452

00:19:03,909 --> 00:19:02,400

people around the globe and to all

453

00:19:05,270 --> 00:19:03,919

thanks to all each and every one of you

454

00:19:06,789 --> 00:19:05,280

for your efforts and the passion for

455

00:19:11,909 --> 00:19:06,799

human space flight it's making a

456

00:19:11,919 --> 00:19:15,990

thank you very much everyone

457

00:19:16,000 --> 00:19:19,909

and thank you all so long san francisco