1
00:00:05,110 --> 00:00:03,590
good afternoon thank you for joining us

2
00:00:07,030 --> 00:00:05,120
for today's expedition crew news

3
00:00:09,750 --> 00:00:07,040
conference joining us today are members

4
00:00:11,110 --> 00:00:09,760
of the expedition 27 and 28 cruise the

5
00:00:13,430 --> 00:00:11,120
three will launch from the baikonur

6
00:00:15,749 --> 00:00:13,440
cosmodrome on march 30th arriving at the

7
00:00:17,189 --> 00:00:15,759
international space station on april 1st

8
00:00:19,269 --> 00:00:17,199
we'll start with introductions and then

9
00:00:20,790 --> 00:00:19,279
take questions first let me introduce

10
00:00:22,710 --> 00:00:20,800
astronaut ron garan

11
00:00:24,230 --> 00:00:22,720
ron was born in yonkers new york he

12
00:00:25,750 --> 00:00:24,240
earned a bachelor of science degree in

13
00:00:27,509 --> 00:00:25,760

business economics from the state

14
00:00:29,910 --> 00:00:27,519
university of new york college at

15
00:00:31,830 --> 00:00:29,920
oneonta and holds master's degrees from

16
00:00:34,069 --> 00:00:31,840
embry-riddle aeronautical university and

17
00:00:36,389 --> 00:00:34,079
the university of florida he is also a

18
00:00:38,389 --> 00:00:36,399
retired colonel from the u.s air force

19
00:00:41,030 --> 00:00:38,399
he was selected as a pilot by nasa in

20
00:00:42,830 --> 00:00:41,040
july 2000 and completed his first space

21
00:00:45,350 --> 00:00:42,840
flight in 2008 on

22
00:00:47,830 --> 00:00:45,360
sts-124 as a mission specialist 2 for

23
00:00:50,470 --> 00:00:47,840
snn entry he has also logged more than

24
00:00:52,310 --> 00:00:50,480
13 days in space and 20 hours and 32

25
00:00:53,590 --> 00:00:52,320
minutes of spacewalking experience in

26
00:00:55,110 --> 00:00:53,600
three evas

27
00:00:57,510 --> 00:00:55,120
we'll turn it over now to ron to

28
00:00:59,990 --> 00:00:57,520
introduce his crewmates thanks nicole um

29
00:01:03,270 --> 00:01:00,000
good afternoon i just want to introduce

30
00:01:06,630 --> 00:01:03,280
my crewmates uh to my left there is uh

31
00:01:09,429 --> 00:01:06,640
the commander of the soyuz spacecraft

32
00:01:11,510 --> 00:01:09,439
alexander samuel kotayev and alexander

33
00:01:14,070 --> 00:01:11,520
is a lieutenant colonel in the russian

34
00:01:17,510 --> 00:01:14,080
air force he's a former test pilot was

35
00:01:19,749 --> 00:01:17,520
selected as a cosmonaut in 2003

36
00:01:22,789 --> 00:01:19,759
and has been training uh since then to

37
00:01:26,070 --> 00:01:22,799
uh for his first mission uh which we're

38
00:01:27,990 --> 00:01:26,080

about to embark on his wife oksana and

39
00:01:30,149 --> 00:01:28,000
and daughter anastasia are here with us

40
00:01:32,149 --> 00:01:30,159
today so welcome to you

41
00:01:35,270 --> 00:01:32,159
um the commander of the space station

42
00:01:37,749 --> 00:01:35,280
for increment 28 is andrei borishanka uh

43
00:01:38,870 --> 00:01:37,759
to alexander's left

44
00:01:41,270 --> 00:01:38,880
uh

45
00:01:44,310 --> 00:01:41,280
andre graduated from the leningrad

46
00:01:46,389 --> 00:01:44,320
military and mechanical institute and he

47
00:01:50,469 --> 00:01:46,399
is also in the uh cosmonaut class of

48
00:01:52,069 --> 00:01:50,479
2003 and he went to work for energia and

49
00:01:53,749 --> 00:01:52,079
was involved in some of the motion

50
00:01:56,469 --> 00:01:53,759
control for the mir

51
00:01:58,630 --> 00:01:56,479
space station and also was a shift

52
00:02:00,389 --> 00:01:58,640
flight director at the mission control

53
00:02:03,109 --> 00:02:00,399
moscow and so

54
00:02:03,910 --> 00:02:03,119
together we are the expedition 27 and 28

55
00:02:05,510 --> 00:02:03,920
crew

56
00:02:06,709 --> 00:02:05,520
all right thank you so much ron we'll

57
00:02:08,869 --> 00:02:06,719
start with questions here from the

58
00:02:10,710 --> 00:02:08,879
johnson space center and we'll start on

59
00:02:13,750 --> 00:02:10,720
this side if you'll state your name and

60
00:02:17,830 --> 00:02:15,910
hey thank you very much mark caro and

61
00:02:20,070 --> 00:02:17,840
i'm representing aviation week in space

62
00:02:23,430 --> 00:02:20,080
technology i believe my question is for

63
00:02:26,550 --> 00:02:23,440

ron that anyone else involved

64
00:02:28,550 --> 00:02:26,560
would be welcome i want to ask you about

65
00:02:30,949 --> 00:02:28,560
dragon operations during your time on

66
00:02:32,790 --> 00:02:30,959
the space station and kind of what you

67
00:02:36,390 --> 00:02:32,800
what you train for and what you sort of

68
00:02:38,309 --> 00:02:36,400
anticipate at this point if if anything

69
00:02:39,750 --> 00:02:38,319
uh well that's that's a good question uh

70
00:02:41,190 --> 00:02:39,760
one that we don't have an answer for

71
00:02:42,949 --> 00:02:41,200
right now

72
00:02:45,270 --> 00:02:42,959
we are trained all the way through

73
00:02:46,710 --> 00:02:45,280
capture and mating of the dragon capsule

74
00:02:48,229 --> 00:02:46,720
and for me that's

75
00:02:50,949 --> 00:02:48,239
really exciting to do that i was

76
00:02:52,710 --> 00:02:50,959
involved in the source selection for the

77
00:02:55,190 --> 00:02:52,720
what's what's known as the commercial

78
00:02:57,270 --> 00:02:55,200
over transportation system so it's you

79
00:02:59,750 --> 00:02:57,280
know really exciting for me to see this

80
00:03:01,750 --> 00:02:59,760
uh commercialization of space uh take

81
00:03:03,910 --> 00:03:01,760
root in these first few steps here what

82
00:03:06,790 --> 00:03:03,920
we're actually gonna do is to be

83
00:03:09,750 --> 00:03:06,800
determined yet so we're looking at that

84
00:03:11,750 --> 00:03:09,760
there is some discussion about combining

85
00:03:13,190 --> 00:03:11,760
two of the demo missions into one

86
00:03:14,790 --> 00:03:13,200
mission

87
00:03:17,190 --> 00:03:14,800
and what time frame that will be is

88
00:03:18,630 --> 00:03:17,200

still under discussion as well so

89
00:03:20,309 --> 00:03:18,640
to answer your question we are trained

90
00:03:23,190 --> 00:03:20,319
all the way through the operations of

91
00:03:26,070 --> 00:03:23,200
mating if it comes down to that

92
00:03:28,630 --> 00:03:26,080
if you were on orbit and they made a

93
00:03:30,789 --> 00:03:28,640
decision to do some of the you know to

94
00:03:33,030 --> 00:03:30,799
bring it in bertha

95
00:03:34,949 --> 00:03:33,040
would you have to do additional training

96
00:03:36,710 --> 00:03:34,959
or would it be just sort of refresher

97
00:03:38,789 --> 00:03:36,720
training while you were already on the

98
00:03:41,589 --> 00:03:38,799
space station with that have you worked

99
00:03:43,509 --> 00:03:41,599
that out if it became necessary or or

100
00:03:44,309 --> 00:03:43,519
are you kind of good to go as it were

101
00:03:46,070 --> 00:03:44,319
well

102
00:03:48,149 --> 00:03:46,080
we're good to go we would do refresher

103
00:03:50,070 --> 00:03:48,159
training on board we have the facilities

104
00:03:51,589 --> 00:03:50,080
on board to practice

105
00:03:53,270 --> 00:03:51,599
the robotic operations that would be

106
00:03:55,589 --> 00:03:53,280
necessary so we would build up our

107
00:03:58,789 --> 00:03:55,599
proficiency by using the onboard traders

108
00:04:02,229 --> 00:04:01,429
hi robert perlman with collectspace.com

109
00:04:05,350 --> 00:04:02,239
um

110
00:04:06,710 --> 00:04:05,360
i believe that your launch will

111
00:04:08,869 --> 00:04:06,720
kick off the

112
00:04:10,949 --> 00:04:08,879
russia celebrations for

113
00:04:13,670 --> 00:04:10,959

the 50th anniversary of human space

114
00:04:15,110 --> 00:04:13,680
flight of year garand's flight i wonder

115
00:04:17,749 --> 00:04:15,120
if you could share

116
00:04:19,509 --> 00:04:17,759
as a crew what your

117
00:04:22,069 --> 00:04:19,519
what what activities are being planned

118
00:04:23,830 --> 00:04:22,079
to support that both in relation to your

119
00:04:25,350 --> 00:04:23,840
launch and then on the anniversary

120
00:04:27,590 --> 00:04:25,360
itself from space

121
00:04:28,870 --> 00:04:27,600
okay yeah i think we'll each take a turn

122
00:04:31,110 --> 00:04:28,880
and answer that because i think that's a

123
00:04:33,270 --> 00:04:31,120
really important question um

124
00:04:35,510 --> 00:04:33,280
for us this is obviously a you know a

125
00:04:39,189 --> 00:04:35,520
very big event this is something that we

126
00:04:40,629 --> 00:04:39,199
really wanted to uh recognize and um we

127
00:04:42,469 --> 00:04:40,639
you know way back when we were in

128
00:04:43,990 --> 00:04:42,479
training we realized that we were going

129
00:04:46,070 --> 00:04:44,000
to coincide with this very important

130
00:04:47,670 --> 00:04:46,080
historic moment and so that's why we

131
00:04:49,909 --> 00:04:47,680
included that in our patch design for

132
00:04:52,710 --> 00:04:49,919
the expedition 28 patch and as you see

133
00:04:54,790 --> 00:04:52,720
the soyuz patch as well included that so

134
00:04:56,790 --> 00:04:54,800
we got permission from the families of

135
00:04:59,430 --> 00:04:56,800
yuri gagarin and al shepard to include

136
00:05:00,629 --> 00:04:59,440
their names on our patch in recognition

137
00:05:01,749 --> 00:05:00,639
of these historic events so it's

138
00:05:03,749 --> 00:05:01,759

something that's really really important

139
00:05:05,590 --> 00:05:03,759
to us

140
00:05:07,029 --> 00:05:05,600
you know i

141
00:05:09,990 --> 00:05:07,039
back you know

142
00:05:12,150 --> 00:05:10,000
50 years ago on april 12th um you know

143
00:05:13,990 --> 00:05:12,160
we as a species became different you

144
00:05:16,150 --> 00:05:14,000
know we were no longer confined to the

145
00:05:18,390 --> 00:05:16,160
uh to the earth and i think that was a

146
00:05:20,950 --> 00:05:18,400
you know pivotal pivotal moment in the

147
00:05:24,070 --> 00:05:20,960
history of humanity and i think it's you

148
00:05:25,590 --> 00:05:24,080
know well worth recognizing this um and

149
00:05:27,110 --> 00:05:25,600
i'll just turn it over to my crewmates

150
00:05:28,469 --> 00:05:27,120
because there's a great deal of

151
00:05:30,390 --> 00:05:28,479
celebrations planned there's a great

152
00:05:32,469 --> 00:05:30,400
deal of activities planned both in the

153
00:06:03,430 --> 00:05:32,479
u.s and in russia and actually around

154
00:06:03,440 --> 00:06:39,670
is

155
00:06:43,350 --> 00:06:40,550
well

156
00:06:46,070 --> 00:06:43,360
we represent the country

157
00:06:47,990 --> 00:06:46,080
that send the first human into space so

158
00:06:49,430 --> 00:06:48,000
the celebrations in our country have

159
00:06:51,670 --> 00:06:49,440
already begun

160
00:06:53,350 --> 00:06:51,680
and as you probably know the russian

161
00:06:56,230 --> 00:06:53,360
government

162
00:06:59,029 --> 00:06:56,240
declared 2011 the year of human space

163
00:07:01,909 --> 00:06:59,039

flight so this year has already started

164
00:07:04,150 --> 00:07:01,919
for us as well as the celebrations and

165
00:07:05,430 --> 00:07:04,160
of course for us it is a great honor to

166
00:07:08,309 --> 00:07:05,440
be

167
00:07:10,950 --> 00:07:08,319
the first piloted crew

168
00:07:13,670 --> 00:07:10,960
this year the first crew that that will

169
00:07:17,430 --> 00:07:13,680
launch from baikonur and we are going to

170
00:07:21,589 --> 00:07:17,440
launch from gagarin pad this is

171
00:07:25,830 --> 00:07:23,589
where yuri gagarin

172
00:07:29,430 --> 00:07:25,840
launched into space for the first time

173
00:07:32,230 --> 00:07:29,440
but our time however is different we're

174
00:07:33,589 --> 00:07:32,240
going to do that on the 30th of march

175
00:07:36,550 --> 00:07:33,599
not on the

176
00:07:39,350 --> 00:07:36,560
12th of april and of course

177
00:07:57,749 --> 00:07:39,360
as i have mentioned we are very glad and

178
00:07:57,759 --> 00:08:19,270
in

179
00:08:23,589 --> 00:08:21,830
uh well i would also like to add that

180
00:08:27,029 --> 00:08:23,599
our launch is going to happen on the

181
00:08:29,110 --> 00:08:27,039
30th of march and there will be a lot of

182
00:08:31,029 --> 00:08:29,120
guests

183
00:08:32,630 --> 00:08:31,039
there in baikonur

184
00:08:35,670 --> 00:08:32,640
there will be media

185
00:08:37,909 --> 00:08:35,680
other visitors so the

186
00:08:41,029 --> 00:08:37,919
baikonur administration has requested to

187
00:08:47,269 --> 00:08:41,039
submit a lists in advance so that

188
00:08:47,279 --> 00:09:11,750

there is a great interest to this event

189
00:09:16,310 --> 00:09:14,710
and also once we're aboard the station

190
00:09:19,110 --> 00:09:16,320
we will definitely

191
00:09:21,910 --> 00:09:19,120
be participating in all the public

192
00:09:24,389 --> 00:09:21,920
affairs events i cannot tell you right

193
00:09:26,070 --> 00:09:24,399
now what events will take part in

194
00:09:28,630 --> 00:09:26,080
because

195
00:09:35,990 --> 00:09:28,640
they are not planned at this point but

196
00:09:41,110 --> 00:09:39,509
now jim oberg with nbc news and for the

197
00:09:42,790 --> 00:09:41,120
commander uh

198
00:09:45,509 --> 00:09:42,800
you will be commanding the spaceship

199
00:09:48,070 --> 00:09:45,519
gagarin is that your call sign or do you

200
00:09:52,070 --> 00:09:48,080
have another call sign position another

201
00:09:52,080 --> 00:09:58,790
a good question

202
00:10:48,630 --> 00:10:44,949
is

203
00:10:51,430 --> 00:10:48,640
um our

204
00:10:54,550 --> 00:10:51,440
craft will be designated in a special

205
00:10:56,870 --> 00:10:54,560
way uh there will be yuri gagarin's name

206
00:10:59,030 --> 00:10:56,880
on it however it will not become our

207
00:11:00,389 --> 00:10:59,040
cosign and it is also not the actual

208
00:11:03,110 --> 00:11:00,399
name of

209
00:11:05,030 --> 00:11:03,120
our spacecraft we

210
00:11:07,190 --> 00:11:05,040
will keep our um

211
00:11:09,910 --> 00:11:07,200
typical numbering

212
00:11:12,230 --> 00:11:09,920
for our spacecraft and in fact we have

213
00:11:15,350 --> 00:11:12,240

two options of

214
00:11:17,509 --> 00:11:15,360
the ship's name so this will stay the

215
00:11:18,630 --> 00:11:17,519
same as far as the call sign is

216
00:11:33,910 --> 00:11:18,640
concerned

217
00:11:39,110 --> 00:11:36,150
jill tulk representing bay area houston

218
00:11:42,710 --> 00:11:39,120
magazine question for andre

219
00:11:44,710 --> 00:11:42,720
you were a flight director at mcc moscow

220
00:11:45,990 --> 00:11:44,720
and now of course you're a cosmonaut

221
00:11:48,870 --> 00:11:46,000
flying on

222
00:11:51,350 --> 00:11:48,880
the iss what is it like for you to have

223
00:11:53,990 --> 00:11:51,360
worked both sides of space flight

224
00:12:43,509 --> 00:11:54,000
operations or what will it be like for

225
00:12:51,110 --> 00:12:47,590
um well i'd like to clarify i actually

226
00:12:52,470 --> 00:12:51,120
worked as a shift flight director in mcc

227
00:12:55,110 --> 00:12:52,480
moscow

228
00:12:57,990 --> 00:12:55,120
and i'm very grateful to

229
00:13:00,230 --> 00:12:58,000
have the opportunity to

230
00:13:02,310 --> 00:13:00,240
have worked and to be working on both

231
00:13:05,269 --> 00:13:02,320
sides as

232
00:13:06,389 --> 00:13:05,279
a ground support team and also as iss

233
00:13:08,470 --> 00:13:06,399
crew

234
00:13:10,790 --> 00:13:08,480
i think that this

235
00:13:13,190 --> 00:13:10,800
will make things much easier for me once

236
00:13:15,030 --> 00:13:13,200
we are on board the iss it will be

237
00:13:17,430 --> 00:13:15,040
easier to work since

238
00:13:20,790 --> 00:13:17,440

like i said i know both sides i know

239
00:13:22,470 --> 00:13:20,800
what it is like to be on the ground and

240
00:13:25,110 --> 00:13:22,480
i think therefore

241
00:13:28,069 --> 00:13:25,120
i will be able to better organize our

242
00:13:31,190 --> 00:13:28,079
activities on board the station

243
00:13:38,790 --> 00:13:31,200
and i think overall it will make our

244
00:13:44,310 --> 00:13:41,030
oh thanks mark caro for aviation week

245
00:13:46,629 --> 00:13:44,320
again could you discuss any space walks

246
00:13:50,310 --> 00:13:46,639
that fall under your mission and kind of

247
00:13:53,030 --> 00:13:50,320
what duties would transpire and when

248
00:13:55,590 --> 00:13:53,040
even approximately their plan for

249
00:13:57,750 --> 00:13:55,600
thank you okay i'll talk about the u.s

250
00:13:59,269 --> 00:13:57,760
spacewalks right now during the

251
00:14:01,829 --> 00:13:59,279
increment 27

252
00:14:05,350 --> 00:14:01,839
and 28 time frame the only planned

253
00:14:06,389 --> 00:14:05,360
spacewalk is during the sts-135 time

254
00:14:09,670 --> 00:14:06,399
frame

255
00:14:14,310 --> 00:14:11,990
mike fossum and i are planned on doing

256
00:14:17,829 --> 00:14:14,320
that spacewalk those are spacewalks with

257
00:14:20,550 --> 00:14:17,839
the the iss crew now sts-134 which will

258
00:14:22,949 --> 00:14:20,560
also be during our time frame has four

259
00:14:26,230 --> 00:14:22,959
uh evas four spacewalks with the uh

260
00:14:28,790 --> 00:14:26,240
sts-134 crew which we will be supporting

261
00:14:34,870 --> 00:14:28,800
and i'll let my russian uh colleagues

262
00:14:34,880 --> 00:14:39,509
uh

263
00:15:07,030 --> 00:14:56,310

um

264
00:15:11,990 --> 00:15:09,110
well we're planning on having one

265
00:15:14,069 --> 00:15:12,000
russian eva so there will be one uh a

266
00:15:16,310 --> 00:15:14,079
spacewalk from the russian segment right

267
00:15:17,509 --> 00:15:16,320
now we're being trained for uh this

268
00:15:19,350 --> 00:15:17,519
spacewalk

269
00:15:20,550 --> 00:15:19,360
and uh during this space work we're

270
00:15:23,430 --> 00:15:20,560
planning

271
00:15:26,069 --> 00:15:23,440
on installing certain science hardware

272
00:15:28,629 --> 00:15:26,079
and also we're planning to perform

273
00:15:29,990 --> 00:15:28,639
activities on the external side of the

274
00:15:32,790 --> 00:15:30,000
station

275
00:15:34,550 --> 00:15:32,800
so that future evas

276
00:15:36,870 --> 00:15:34,560
the evas that

277
00:15:38,629 --> 00:15:36,880
next future increments

278
00:15:39,430 --> 00:15:38,639
will be performing

279
00:15:41,189 --> 00:15:39,440
are

280
00:15:47,110 --> 00:15:41,199
easier

281
00:15:51,749 --> 00:15:48,870
robert perlman with collectspace.com

282
00:15:53,430 --> 00:15:51,759
again um for ron uh last night during

283
00:15:55,030 --> 00:15:53,440
the state of the union president obama

284
00:15:57,910 --> 00:15:55,040
cited uh

285
00:15:59,990 --> 00:15:57,920
the sputnik moment as uh

286
00:16:01,590 --> 00:16:00,000
and the launch of the space race as a

287
00:16:04,949 --> 00:16:01,600
catalyst for getting students in

288
00:16:06,629 --> 00:16:04,959

interested in science education

289
00:16:07,509 --> 00:16:06,639
what plans

290
00:16:10,550 --> 00:16:07,519
are

291
00:16:13,110 --> 00:16:10,560
do your crew have to um to extend

292
00:16:15,749 --> 00:16:13,120
education as a national goal for for

293
00:16:17,350 --> 00:16:15,759
both russia and the united states um

294
00:16:19,110 --> 00:16:17,360
through your through your work with

295
00:16:20,949 --> 00:16:19,120
students from the space station

296
00:16:22,870 --> 00:16:20,959
well our mission is going to be chock

297
00:16:24,230 --> 00:16:22,880
full of education outreach activities

298
00:16:25,829 --> 00:16:24,240
that's one of the big things that we're

299
00:16:27,910 --> 00:16:25,839
going to be doing um

300
00:16:30,710 --> 00:16:27,920
but you know let me just step back for a

301
00:16:31,509 --> 00:16:30,720
second and just tell tell a story about

302
00:16:33,350 --> 00:16:31,519
how

303
00:16:35,189 --> 00:16:33,360
the space program affected my own

304
00:16:37,990 --> 00:16:35,199
educational background and you know i

305
00:16:40,550 --> 00:16:38,000
was a i was a young high school student

306
00:16:42,790 --> 00:16:40,560
in yonkers new york and um you know i

307
00:16:44,230 --> 00:16:42,800
had dreamed ever since the first moon

308
00:16:45,590 --> 00:16:44,240
landing to become an astronaut but

309
00:16:47,269 --> 00:16:45,600
during that time frame when i was

310
00:16:49,269 --> 00:16:47,279
getting ready to go to college

311
00:16:51,030 --> 00:16:49,279
as far as i was concerned this kid from

312
00:16:53,509 --> 00:16:51,040
from yonkers you know we didn't have a

313
00:16:55,030 --> 00:16:53,519

space program it was after sky lab it

314
00:16:57,509 --> 00:16:55,040
was before the first space shuttle

315
00:16:59,509 --> 00:16:57,519
mission and so i went off to college

316
00:17:01,269 --> 00:16:59,519
really not knowing what i wanted to do

317
00:17:03,590 --> 00:17:01,279
with my life when i was a sophomore in

318
00:17:05,990 --> 00:17:03,600
college we had the first space shuttle

319
00:17:08,150 --> 00:17:06,000
mission and the very next day i went to

320
00:17:10,150 --> 00:17:08,160
my advisor and i started taking math and

321
00:17:13,110 --> 00:17:10,160
science courses and started pursuing a

322
00:17:14,789 --> 00:17:13,120
degree in engineering because that

323
00:17:16,150 --> 00:17:14,799
reawakened this dream that i had since i

324
00:17:17,270 --> 00:17:16,160
was a young child

325
00:17:19,350 --> 00:17:17,280
of flying in space and getting

326
00:17:20,789 --> 00:17:19,360
interested in space so from a personal

327
00:17:22,390 --> 00:17:20,799
experience you know i could tell just

328
00:17:23,510 --> 00:17:22,400
the fact that we are in space and we're

329
00:17:25,429 --> 00:17:23,520
doing what we're doing and we're doing

330
00:17:27,350 --> 00:17:25,439
the amazing things on the space station

331
00:17:28,950 --> 00:17:27,360
that we're doing you know that that i

332
00:17:30,789 --> 00:17:28,960
think is an inspiration to young

333
00:17:32,870 --> 00:17:30,799
students but we're not going to just

334
00:17:34,310 --> 00:17:32,880
you know that's not enough for us we we

335
00:17:36,310 --> 00:17:34,320
you know the science that we're doing on

336
00:17:37,909 --> 00:17:36,320
board not only does it affect

337
00:17:39,510 --> 00:17:37,919
the earth you know not only does it

338
00:17:41,830 --> 00:17:39,520

allow us to go further and further in

339
00:17:44,549 --> 00:17:41,840
the solar system but it also you know

340
00:17:46,630 --> 00:17:44,559
really helps us on the on the planet but

341
00:17:48,230 --> 00:17:46,640
you know we are not going to just you

342
00:17:49,750 --> 00:17:48,240
know keep that a secret you know we are

343
00:17:51,510 --> 00:17:49,760
going to you know

344
00:17:53,029 --> 00:17:51,520
use that in our education outreach we're

345
00:17:55,029 --> 00:17:53,039
going to describe the science that we're

346
00:17:57,029 --> 00:17:55,039
doing on board to students we're going

347
00:17:59,430 --> 00:17:57,039
to allow students to participate in

348
00:18:01,190 --> 00:17:59,440
whenever we can in those scientific

349
00:18:03,590 --> 00:18:01,200
experiments we have a thing called

350
00:18:05,830 --> 00:18:03,600
saturday morning science where where

351
00:18:08,950 --> 00:18:05,840
students submit uh experiments that we

352
00:18:11,029 --> 00:18:08,960
that we as the crew conduct on board so

353
00:18:12,950 --> 00:18:11,039
we have you know i could spend a couple

354
00:18:15,029 --> 00:18:12,960
of hours you know describing all the

355
00:18:17,190 --> 00:18:15,039
different educational outreach

356
00:18:18,710 --> 00:18:17,200
outreach events that we have planned uh

357
00:18:20,710 --> 00:18:18,720
not just for our mission but for all the

358
00:18:22,789 --> 00:18:20,720
missions so that we can help that next

359
00:18:28,710 --> 00:18:22,799
generation be ready for all the the big

360
00:18:32,710 --> 00:18:30,789
jim oberg again we're hearing about

361
00:18:34,870 --> 00:18:32,720
things you're doing for other people i

362
00:18:37,110 --> 00:18:34,880
want to ask the three of you what you're

363
00:18:39,270 --> 00:18:37,120

going to do for yourselves ron you're

364
00:18:40,150 --> 00:18:39,280
going to have more time than 13 days on

365
00:18:41,430 --> 00:18:40,160
orbit

366
00:18:44,230 --> 00:18:41,440
and i want to ask them the things that

367
00:18:45,669 --> 00:18:44,240
you you didn't have time to do last time

368
00:18:46,950 --> 00:18:45,679
and for the other

369
00:18:49,350 --> 00:18:46,960
crew members

370
00:18:50,310 --> 00:18:49,360
uh what do you look forward to what do

371
00:18:53,029 --> 00:18:50,320
you

372
00:18:55,029 --> 00:18:53,039
look forward to doing for the first time

373
00:18:58,230 --> 00:18:55,039
that people have told you about

374
00:19:01,029 --> 00:18:58,240
what things are you going to do

375
00:19:03,350 --> 00:19:01,039
for your own pleasure

376
00:19:05,110 --> 00:19:03,360
i think the big thing for me is the you

377
00:19:08,070 --> 00:19:05,120
know what this mission will provide me

378
00:19:10,310 --> 00:19:08,080
is the ability to process the experience

379
00:19:11,510 --> 00:19:10,320
as it's happening so on a space shuttle

380
00:19:12,870 --> 00:19:11,520
mission you know you're just up there

381
00:19:15,029 --> 00:19:12,880
for a couple of weeks and it's you know

382
00:19:16,470 --> 00:19:15,039
it's very very busy and you've trained

383
00:19:17,990 --> 00:19:16,480
and trained for these very specific

384
00:19:20,390 --> 00:19:18,000
tasks that you're going to do

385
00:19:23,029 --> 00:19:20,400
and you know it's a wonderful experience

386
00:19:24,549 --> 00:19:23,039
but it's over so fast that you really it

387
00:19:26,470 --> 00:19:24,559
almost seems like a dream when it's all

388
00:19:28,390 --> 00:19:26,480

over that it happens so fast so being up

389
00:19:31,270 --> 00:19:28,400
there for almost six months

390
00:19:33,430 --> 00:19:31,280
you know we will have the opportunity to

391
00:19:35,029 --> 00:19:33,440
eventually when we get used to living

392
00:19:36,789 --> 00:19:35,039
there when we when we settle into a

393
00:19:38,549 --> 00:19:36,799
routine there to be you know it will

394
00:19:40,630 --> 00:19:38,559
become normal for us you know we will

395
00:19:42,870 --> 00:19:40,640
not be visitors to space we will be

396
00:19:44,950 --> 00:19:42,880
residents of space and we will be able

397
00:19:47,510 --> 00:19:44,960
to experience that on a day-to-day basis

398
00:19:49,430 --> 00:19:47,520
and to really process that experience

399
00:20:00,310 --> 00:19:49,440
and i think that it will be a deeper

400
00:20:34,710 --> 00:20:02,950
okay well

401
00:20:37,750 --> 00:20:36,710
well it is really hard to add anything

402
00:20:39,590 --> 00:20:37,760
to

403
00:20:40,870 --> 00:20:39,600
what one has just said

404
00:20:43,669 --> 00:20:40,880
and

405
00:20:45,110 --> 00:20:43,679
we both are pilots so we basically have

406
00:20:47,590 --> 00:20:45,120
the same ideas

407
00:20:48,549 --> 00:20:47,600
about what we'll be doing there

408
00:20:50,310 --> 00:20:48,559
i would

409
00:20:52,070 --> 00:20:50,320
only like to add that i'm looking

410
00:20:55,669 --> 00:20:52,080
forward to

411
00:20:58,870 --> 00:20:55,679
look um down on the earth from space i

412
00:21:00,870 --> 00:20:58,880
think it is a truly a magical moment to

413
00:21:03,270 --> 00:21:00,880

be doing it for the first time

414
00:21:06,070 --> 00:21:03,280
from space and

415
00:21:42,470 --> 00:21:06,080
as they say our earth looks very very

416
00:21:42,480 --> 00:22:24,149
um

417
00:22:28,950 --> 00:22:26,149
this will be the first space flight for

418
00:22:31,590 --> 00:22:28,960
me uh as well as uh like

419
00:22:33,190 --> 00:22:31,600
like for uh alexander

420
00:22:35,669 --> 00:22:33,200
and i think that

421
00:22:37,350 --> 00:22:35,679
uh due to this any activity that we'll

422
00:22:39,669 --> 00:22:37,360
be doing there any work will be

423
00:22:41,990 --> 00:22:39,679
interesting for me because any task will

424
00:22:44,230 --> 00:22:42,000
be new

425
00:22:47,270 --> 00:22:44,240
of course i

426
00:22:49,990 --> 00:22:47,280
will enjoy taking pictures of earth

427
00:22:51,430 --> 00:22:50,000
i think it is a very interesting and

428
00:22:54,230 --> 00:22:51,440
undescribable

429
00:22:55,990 --> 00:22:54,240
experience i have seen many pictures

430
00:22:56,950 --> 00:22:56,000
taken by

431
00:22:58,950 --> 00:22:56,960
other

432
00:23:01,350 --> 00:22:58,960
cosmonauts and astronauts

433
00:23:02,470 --> 00:23:01,360
taken at different times so i think it

434
00:23:05,430 --> 00:23:02,480
will be

435
00:23:06,870 --> 00:23:05,440
quite difficult for me to

436
00:23:08,390 --> 00:23:06,880
take unique

437
00:23:11,190 --> 00:23:08,400
pictures however

438
00:23:13,350 --> 00:23:11,200

i will try to accomplish that

439
00:23:15,909 --> 00:23:13,360
and secondly

440
00:23:17,029 --> 00:23:15,919
i'm planning on doing certain work with

441
00:23:19,350 --> 00:23:17,039
the

442
00:23:21,990 --> 00:23:19,360
ground control team in moscow

443
00:23:23,430 --> 00:23:22,000
we'll be doing experiments to develop

444
00:23:26,149 --> 00:23:23,440
methodology

445
00:23:28,070 --> 00:23:26,159
to uh control and monitor human space

446
00:23:32,390 --> 00:23:28,080
flights to

447
00:23:34,470 --> 00:23:33,350
all right

448
00:23:35,270 --> 00:23:34,480
next question

449
00:23:37,430 --> 00:23:35,280
mark

450
00:23:39,750 --> 00:23:37,440
uh for aviation week again and mine's

451
00:23:41,590 --> 00:23:39,760
for ron garan can you sort of discuss

452
00:23:42,870 --> 00:23:41,600
the volume and pace of science

453
00:23:44,630 --> 00:23:42,880
activities

454
00:23:46,870 --> 00:23:44,640
overall i know you can't delve into each

455
00:23:49,750 --> 00:23:46,880
experiment but but sort of what you're

456
00:23:50,950 --> 00:23:49,760
anticipating as far as workload and and

457
00:23:52,950 --> 00:23:50,960
how much

458
00:23:54,549 --> 00:23:52,960
attention and time you can devote to

459
00:23:55,590 --> 00:23:54,559
science

460
00:23:57,990 --> 00:23:55,600
well

461
00:24:00,230 --> 00:23:58,000
you know we we are just starting the you

462
00:24:01,909 --> 00:24:00,240
know the pure utilization phase of the

463
00:24:03,029 --> 00:24:01,919

of the space station so with you know

464
00:24:05,110 --> 00:24:03,039
the increase

465
00:24:07,110 --> 00:24:05,120
to a six person crew that affords us a

466
00:24:08,950 --> 00:24:07,120
lot more time to do science so

467
00:24:09,990 --> 00:24:08,960
um you know the exact percentages you

468
00:24:11,510 --> 00:24:10,000
know i don't know what it's going to be

469
00:24:12,710 --> 00:24:11,520
it all depends on you know the other

470
00:24:15,269 --> 00:24:12,720
things that are going on we are going to

471
00:24:16,549 --> 00:24:15,279
have a lot of visiting vehicles that are

472
00:24:19,269 --> 00:24:16,559
going to take up a lot of time we do

473
00:24:21,590 --> 00:24:19,279
have spacewalks so all of that has to be

474
00:24:22,549 --> 00:24:21,600
has to be figured into our timeline

475
00:24:24,710 --> 00:24:22,559
but

476
00:24:26,390 --> 00:24:24,720
you know i'm really looking forward to

477
00:24:27,350 --> 00:24:26,400
all of those different experiments that

478
00:24:28,870 --> 00:24:27,360
we're going to be doing you know the

479
00:24:31,909 --> 00:24:28,880
materials science the combustion

480
00:24:33,590 --> 00:24:31,919
research the research on the human body

481
00:24:35,430 --> 00:24:33,600
all those things that we're going to be

482
00:24:37,029 --> 00:24:35,440
doing and i'm really looking forward to

483
00:24:39,510 --> 00:24:37,039
you know seeing the results of those

484
00:24:41,430 --> 00:24:39,520
things and you know in some cases

485
00:24:44,070 --> 00:24:41,440
we're what i would call lab assistants

486
00:24:45,590 --> 00:24:44,080
and in other cases we're lab rats where

487
00:24:48,230 --> 00:24:45,600
we're kind of the what the experiment is

488
00:24:50,549 --> 00:24:48,240

being conducted on and so you know we

489
00:24:53,269 --> 00:24:50,559
have the opportunity to to participate

490
00:24:56,310 --> 00:24:53,279
and to contribute in both those aspects

491
00:24:58,310 --> 00:24:56,320
um so a significant portion of the day

492
00:25:00,390 --> 00:24:58,320
is going to be taken up with you know

493
00:25:02,149 --> 00:25:00,400
one of those two types of assistance

494
00:25:03,190 --> 00:25:02,159
with the experiments and

495
00:25:04,789 --> 00:25:03,200
um

496
00:25:05,909 --> 00:25:04,799
you know pretty much you know every day

497
00:25:07,350 --> 00:25:05,919
there's going to be

498
00:25:09,110 --> 00:25:07,360
something something going on in the

499
00:25:12,070 --> 00:25:09,120
science department so we're looking

500
00:25:19,029 --> 00:25:15,430
okay any other follow-ups on this side

501
00:25:24,230 --> 00:25:22,470
um first for ron you you had a marvelous

502
00:25:25,750 --> 00:25:24,240
blog last year

503
00:25:27,990 --> 00:25:25,760
very insightful comments about your

504
00:25:30,470 --> 00:25:28,000
training in moscow and baikonur and i

505
00:25:33,430 --> 00:25:30,480
hope you're going to start that again

506
00:25:36,470 --> 00:25:33,440
and i hope other others may continue uh

507
00:25:39,269 --> 00:25:36,480
colonel condratiev's blog which is also

508
00:25:41,190 --> 00:25:39,279
very helpful so will you be blogging

509
00:25:45,590 --> 00:25:41,200
from orbit that which of you will be

510
00:25:47,110 --> 00:25:45,600
blogging uh from orbit yeah um i i which

511
00:25:49,750 --> 00:25:47,120
are referring to as a website that i

512
00:25:52,230 --> 00:25:49,760
started called fragile oasis and the

513
00:25:55,350 --> 00:25:52,240

goals of that site are um we have a

514
00:25:57,830 --> 00:25:55,360
number of them one is to allow people to

515
00:25:59,590 --> 00:25:57,840
kind of live vicariously and ex have

516
00:26:01,830 --> 00:25:59,600
this experience with us

517
00:26:03,510 --> 00:26:01,840
uh to what you know to know and to see

518
00:26:05,909 --> 00:26:03,520
and experience what what it is to live

519
00:26:07,190 --> 00:26:05,919
and work uh on orbit and so

520
00:26:09,190 --> 00:26:07,200
uh that's one of the big things but you

521
00:26:11,029 --> 00:26:09,200
know not just as spectators you know we

522
00:26:12,789 --> 00:26:11,039
want them to be participants in it so we

523
00:26:15,110 --> 00:26:12,799
have a number of interactive things that

524
00:26:17,110 --> 00:26:15,120
we're going to do with the site um you

525
00:26:18,630 --> 00:26:17,120
know another big goal is going to be to

526
00:26:21,350 --> 00:26:18,640
you know use the unique orbital

527
00:26:23,510 --> 00:26:21,360
perspective to shine a light on some of

528
00:26:25,430 --> 00:26:23,520
the challenges facing our planet and so

529
00:26:26,789 --> 00:26:25,440
that's a that's another big part of it

530
00:26:28,630 --> 00:26:26,799
but i'm going to continue i'm going to

531
00:26:30,549 --> 00:26:28,640
do it as much as much as i can as much

532
00:26:32,230 --> 00:26:30,559
as the timeline allows

533
00:26:33,510 --> 00:26:32,240
because i really feel that that you know

534
00:26:35,510 --> 00:26:33,520
is an important thing i feel a

535
00:26:37,350 --> 00:26:35,520
responsibility as as

536
00:26:39,029 --> 00:26:37,360
i think everybody does who has this you

537
00:26:41,750 --> 00:26:39,039
know privilege of flying in space to be

538
00:26:43,350 --> 00:26:41,760

able to share that as best we can with

539
00:26:45,909 --> 00:26:43,360
as many people as we can so i'm gonna

540
00:26:47,590 --> 00:26:45,919
i'm gonna do my best to do that um

541
00:26:49,269 --> 00:26:47,600
another big aspect that we're trying to

542
00:26:50,950 --> 00:26:49,279
do with that is going back to the other

543
00:26:52,710 --> 00:26:50,960
questions about education outreach is

544
00:26:55,510 --> 00:26:52,720
going to be a very big education

545
00:26:57,669 --> 00:26:55,520
outreach uh part of that

546
00:26:58,630 --> 00:26:57,679
so yes we're going to try and blog we're

547
00:27:01,909 --> 00:26:58,640
going to try to send down as many

548
00:27:03,669 --> 00:27:01,919
pictures as many videos and to really as

549
00:27:05,750 --> 00:27:03,679
best we can

550
00:27:07,669 --> 00:27:05,760
get everybody on board and get everybody

551
00:27:09,110 --> 00:27:07,679
to participate with in the mission with

552
00:27:11,430 --> 00:27:09,120
us

553
00:27:40,950 --> 00:27:11,440
yeah and the other side will you try to

554
00:27:46,710 --> 00:27:43,190
well it is hard for me to say whether

555
00:27:50,549 --> 00:27:46,720
we'll be actually blogging or um

556
00:27:53,590 --> 00:27:50,559
sharing our experience in any other form

557
00:27:54,950 --> 00:27:53,600
but certainly we'll try to to do this

558
00:27:55,909 --> 00:27:54,960
and

559
00:27:58,389 --> 00:27:55,919
i can

560
00:28:01,590 --> 00:27:58,399
say for sure that we're going to use all

561
00:28:02,950 --> 00:28:01,600
our resources all our eloquence

562
00:28:03,990 --> 00:28:02,960
to

563
00:28:06,470 --> 00:28:04,000

share

564
00:28:15,269 --> 00:28:06,480
our impressions of

565
00:28:15,279 --> 00:28:17,269
all isis

566
00:28:19,830 --> 00:28:18,070
okay

567
00:28:21,350 --> 00:28:19,840
seeing no further questions that will

568
00:28:23,110 --> 00:28:21,360
conclude our briefing for more

569
00:28:24,549 --> 00:28:23,120
information on the international space

570
00:28:27,590 --> 00:28:24,559
station and its cruise please visit our