1
00:00:17,349 --> 00:00:15,270
expedition 38 will return astronaut rick

2
00:00:19,269 --> 00:00:17,359
mastracchio to the international space

3
00:00:20,870 --> 00:00:19,279
station for the fourth time

4
00:00:23,189 --> 00:00:20,880
his first three journeys were aboard

5
00:00:24,470 --> 00:00:23,199
space shuttles atlantis endeavor and

6
00:00:26,470 --> 00:00:24,480
discovery

7
00:00:28,870 --> 00:00:26,480
rick has completed six spacewalks in his

8
00:00:30,230 --> 00:00:28,880
nearly 40 days in space

9
00:00:32,790 --> 00:00:30,240
rick is a native of waterbury

10
00:00:39,430 --> 00:00:32,800
connecticut and a father of three

11
00:00:44,389 --> 00:00:41,670
soyuz commander mikhail turin has spent

12
00:00:46,869 --> 00:00:44,399
340 days in space over the course of his

13
00:00:49,270 --> 00:00:46,879

two long-duration missions he has five

14
00:00:52,069 --> 00:00:49,280
spacewalks to his credit in his spare

15
00:00:53,910 --> 00:00:52,079
time mchale enjoys sailing he resides in

16
00:00:56,069 --> 00:00:53,920
corolla home of the russian federal

17
00:01:00,069 --> 00:00:56,079
space agency's mission control center

18
00:01:05,270 --> 00:01:02,630
japan aerospace exploration agency

19
00:01:07,830 --> 00:01:05,280
astronaut dr koichi wakata has journeyed

20
00:01:09,990 --> 00:01:07,840
to space three times he was japan's

21
00:01:11,830 --> 00:01:10,000
first long-duration astronaut and will

22
00:01:15,030 --> 00:01:11,840
become japan's first space station

23
00:01:17,429 --> 00:01:15,040
commander during expedition 39.

24
00:01:20,390 --> 00:01:17,439
fuichi is a father of one and enjoys

25
00:01:21,830 --> 00:01:20,400
hang gliding baseball tennis and snow

26
00:01:24,070 --> 00:01:21,840
skiing

27
00:01:25,670 --> 00:01:24,080
rick mchale and koichi will launch to

28
00:01:27,910 --> 00:01:25,680
the space station in their soyuz

29
00:01:37,270 --> 00:01:27,920
spacecraft from the baikonur cosmodrome

30
00:01:40,469 --> 00:01:38,870
good afternoon and thanks for joining us

31
00:01:42,630 --> 00:01:40,479
it's my pleasure to introduce one of our

32
00:01:45,109 --> 00:01:42,640
upcoming space station crews with me is

33
00:01:47,510 --> 00:01:45,119
nasa astronaut rick mastracchio russian

34
00:01:49,830 --> 00:01:47,520
cosmonaut mikhail turin and jaxa

35
00:01:50,950 --> 00:01:49,840
astronaut koichi wakata who midway

36
00:01:52,469 --> 00:01:50,960
through the mission will become the

37
00:01:53,749 --> 00:01:52,479
first japanese

38
00:01:55,429 --> 00:01:53,759

astronaut to serve as commander for the

39
00:01:57,270 --> 00:01:55,439
space station thank you all gentlemen

40
00:01:58,709 --> 00:01:57,280
for joining us we know there's a lot to

41
00:02:00,630 --> 00:01:58,719
talk about there's a lot going on on

42
00:02:02,069 --> 00:02:00,640
your mission so we'll just jump in

43
00:02:04,149 --> 00:02:02,079
for starters we're actually here a

44
00:02:05,990 --> 00:02:04,159
little earlier than planned earlier in

45
00:02:07,590 --> 00:02:06,000
the year your launch was actually moved

46
00:02:08,710 --> 00:02:07,600
up a bit to accommodate some special

47
00:02:09,990 --> 00:02:08,720
activities that are going to happen

48
00:02:11,830 --> 00:02:10,000
we're going to talk about that a little

49
00:02:13,589 --> 00:02:11,840
bit later but can you just kind of bring

50
00:02:15,030 --> 00:02:13,599
us up to speed on what adjustments had

51
00:02:16,309 --> 00:02:15,040
to be made to your training schedule and

52
00:02:18,630 --> 00:02:16,319
how you've prepared for this launch

53
00:02:20,390 --> 00:02:18,640
which is now planned in november

54
00:02:22,390 --> 00:02:20,400
yeah we are

55
00:02:24,470 --> 00:02:22,400
training for a little over two years and

56
00:02:27,510 --> 00:02:24,480
our launch was uh moved up by about

57
00:02:29,510 --> 00:02:27,520
three weeks but uh we have been training

58
00:02:32,150 --> 00:02:29,520
uh extensively on the soyuz and space

59
00:02:34,150 --> 00:02:32,160
station operations and uh we had a

60
00:02:36,869 --> 00:02:34,160
little bit of a compact schedule towards

61
00:02:39,430 --> 00:02:36,879
the end of this flow but it's been going

62
00:02:40,790 --> 00:02:39,440
well and now we're ready to fly

63
00:02:42,229 --> 00:02:40,800

great

64
00:02:45,110 --> 00:02:42,239
so your launch is planned for november

65
00:02:46,790 --> 00:02:45,120
6th a little after 10 pm central time

66
00:02:48,470 --> 00:02:46,800
once you get on orbit and you are

67
00:02:50,229 --> 00:02:48,480
supposed to dock on the same day just a

68
00:02:51,910 --> 00:02:50,239
few days later there's a spacewalk plan

69
00:02:53,110 --> 00:02:51,920
and it's got one special task you guys

70
00:02:54,869 --> 00:02:53,120
want to talk to us a little bit about

71
00:02:56,630 --> 00:02:54,879
that

72
00:02:59,509 --> 00:02:56,640
misha

73
00:03:01,030 --> 00:02:59,519
uh yes i think it's a

74
00:03:05,750 --> 00:03:01,040
good

75
00:03:08,550 --> 00:03:05,760
in general i can say that

76
00:03:13,509 --> 00:03:08,560
we are very proud that we

77
00:03:13,519 --> 00:03:17,190
space flight and our program

78
00:03:21,990 --> 00:03:18,710
i can

79
00:03:23,990 --> 00:03:22,000
call it special because it

80
00:03:27,110 --> 00:03:24,000
traditionally doesn't have too much

81
00:03:29,030 --> 00:03:27,120
relation to the area where of our

82
00:03:31,430 --> 00:03:29,040
professional activities

83
00:03:35,190 --> 00:03:31,440
but anyway this

84
00:03:36,390 --> 00:03:35,200
uh i can say for sure that it it is

85
00:03:39,110 --> 00:03:36,400
symbolic

86
00:03:41,110 --> 00:03:39,120
and relates to

87
00:03:43,270 --> 00:03:41,120
general human

88
00:03:45,030 --> 00:03:43,280

uh things

89
00:03:46,229 --> 00:03:45,040
yeah and so just to clarify this is

90
00:03:47,830 --> 00:03:46,239
because during that spacewalk they're

91
00:03:49,589 --> 00:03:47,840
going to be taking up the olympic torch

92
00:03:52,949 --> 00:03:49,599
that will be part of the winter olympics

93
00:03:53,670 --> 00:03:52,959
plan for sochi yes and our task

94
00:03:54,550 --> 00:03:53,680
is

95
00:03:58,789 --> 00:03:54,560
to

96
00:04:01,110 --> 00:03:58,799
then

97
00:04:03,270 --> 00:04:01,120
to others

98
00:04:04,869 --> 00:04:03,280
have to perform eva

99
00:04:07,030 --> 00:04:04,879
having this torch

100
00:04:07,990 --> 00:04:07,040
or carrying it outside of the station

101
00:04:11,030 --> 00:04:08,000
and

102
00:04:12,309 --> 00:04:11,040
the third crew the third group of people

103
00:04:14,949 --> 00:04:12,319
will bring it

104
00:04:17,270 --> 00:04:14,959
back to the ground so we also have

105
00:04:20,150 --> 00:04:17,280
a kind of real

106
00:04:23,350 --> 00:04:21,590
rick we want to talk a little bit about

107
00:04:24,710 --> 00:04:23,360
you have a deep engineering background

108
00:04:26,150 --> 00:04:24,720
you've got a great career in space

109
00:04:27,909 --> 00:04:26,160
exploration and now you're headed to the

110
00:04:29,110 --> 00:04:27,919
space station i would imagine for

111
00:04:30,870 --> 00:04:29,120
somebody with your background in

112
00:04:32,790 --> 00:04:30,880
engineering and physical sciences this

113
00:04:34,070 --> 00:04:32,800

is like a kid going to a candy store

114
00:04:36,070 --> 00:04:34,080
what what types of things are you

115
00:04:37,590 --> 00:04:36,080
looking forward to doing most um yeah

116
00:04:39,110 --> 00:04:37,600
thank you it's interesting because i my

117
00:04:41,030 --> 00:04:39,120
first time that i went to the

118
00:04:42,469 --> 00:04:41,040
international space station was in 2000

119
00:04:44,469 --> 00:04:42,479
it was a it was a brand new space

120
00:04:46,230 --> 00:04:44,479
station when i arrived there nobody was

121
00:04:48,550 --> 00:04:46,240
living there was only three modules it

122
00:04:51,189 --> 00:04:48,560
had that new space station smell

123
00:04:53,030 --> 00:04:51,199
i came back uh in 2007 there was three

124
00:04:54,710 --> 00:04:53,040
folks living there we had completed most

125
00:04:56,629 --> 00:04:54,720
of the trust work on board the space

126
00:04:59,670 --> 00:04:56,639
station we had it the elaborate u.s

127
00:05:01,590 --> 00:04:59,680
laboratory and the uh the airlock i got

128
00:05:03,909 --> 00:05:01,600
to do three spacewalks help assemble the

129
00:05:06,310 --> 00:05:03,919
space station and i went back again in

130
00:05:08,469 --> 00:05:06,320
2010 six people were living there all

131
00:05:10,710 --> 00:05:08,479
the modules have been added the columbus

132
00:05:13,670 --> 00:05:10,720
the european module the japanese modules

133
00:05:15,270 --> 00:05:13,680
the node 2 node 3 cupola of course

134
00:05:16,629 --> 00:05:15,280
and so every time i go there the space

135
00:05:18,790 --> 00:05:16,639
station gets bigger and bigger and more

136
00:05:20,150 --> 00:05:18,800
and more people now i'm going there for

137
00:05:21,590 --> 00:05:20,160
the fourth time but this time i'm not

138
00:05:23,189 --> 00:05:21,600

going there to help assemble the space

139
00:05:24,710 --> 00:05:23,199
station but to live and work on board

140
00:05:26,469 --> 00:05:24,720
the space station

141
00:05:28,390 --> 00:05:26,479
so i'm really looking forward to

142
00:05:31,270 --> 00:05:28,400
actually spending a long period of time

143
00:05:33,430 --> 00:05:31,280
up there helping to do some research get

144
00:05:35,029 --> 00:05:33,440
involved in the science and actually use

145
00:05:37,110 --> 00:05:35,039
the space station for what it was

146
00:05:38,870 --> 00:05:37,120
intended to be used for

147
00:05:41,590 --> 00:05:38,880
okay and i'm sure everybody's dying

148
00:05:43,270 --> 00:05:41,600
what's that new space station smell

149
00:05:44,870 --> 00:05:43,280
i forget

150
00:05:46,469 --> 00:05:44,880
okay all right well we've got a great

151
00:05:48,469 --> 00:05:46,479
crowd here at johnson space center so we

152
00:05:50,390 --> 00:05:48,479
want to dive into some questions um for

153
00:05:52,629 --> 00:05:50,400
the media or we actually have a special

154
00:05:54,950 --> 00:05:52,639
group of students here some of our jsc

155
00:05:56,070 --> 00:05:54,960
pathways co-op engineering students so

156
00:05:57,830 --> 00:05:56,080
we'll be taking questions from them as

157
00:05:59,430 --> 00:05:57,840
well so if you'll just raise your hand

158
00:06:01,430 --> 00:05:59,440
and wait for the microphone to get to

159
00:06:03,749 --> 00:06:01,440
you and we'll start with the questions

160
00:06:05,510 --> 00:06:03,759
here and then please state your name and

161
00:06:07,430 --> 00:06:05,520
affiliation

162
00:06:08,790 --> 00:06:07,440
and who your question is directed to if

163
00:06:12,150 --> 00:06:08,800

someone's specific

164
00:06:13,430 --> 00:06:12,160
hi hello i'm nakajima uh i'm a japanese

165
00:06:15,990 --> 00:06:13,440
journalist

166
00:06:18,550 --> 00:06:16,000
japanese newspaper yomir jimbo i have a

167
00:06:20,070 --> 00:06:18,560
question to dr koji wakata

168
00:06:24,070 --> 00:06:20,080
you will be uh

169
00:06:25,990 --> 00:06:24,080
first japanese commander in iss so i

170
00:06:28,950 --> 00:06:26,000
wanna know uh

171
00:06:32,390 --> 00:06:28,960
what do you want to do as a first

172
00:06:35,670 --> 00:06:32,400
japanese commander in iss

173
00:06:38,230 --> 00:06:35,680
well i was very fortunate to be able to

174
00:06:40,070 --> 00:06:38,240
fly with uh uh wonderful commanders on

175
00:06:44,309 --> 00:06:40,080
my previous space flight

176
00:06:46,550 --> 00:06:44,319
uh scs 72 and 92 i flew with brian duffy

177
00:06:47,629 --> 00:06:46,560
who was air force the test pilot and

178
00:06:50,550 --> 00:06:47,639
then

179
00:06:53,589 --> 00:06:50,560
sts-119's commander was uh liachombot

180
00:06:55,430 --> 00:06:53,599
and i came back on ss127 commanded by

181
00:06:56,950 --> 00:06:55,440
mark polanski onboard the space station

182
00:06:58,950 --> 00:06:56,960
when i flew there last time four and a

183
00:07:01,350 --> 00:06:58,960
half hour months

184
00:07:03,749 --> 00:07:01,360
russian commander gennady padauka was my

185
00:07:05,430 --> 00:07:03,759
commander and i learned a lot from them

186
00:07:07,110 --> 00:07:05,440
and they are wonderful

187
00:07:08,870 --> 00:07:07,120
talented

188
00:07:11,749 --> 00:07:08,880

commanders and they are great

189
00:07:14,230 --> 00:07:11,759
communicators and they

190
00:07:17,270 --> 00:07:14,240
trusted the crew members and the ground

191
00:07:19,670 --> 00:07:17,280
personnel as well so i would like to

192
00:07:21,670 --> 00:07:19,680
apply what i learned from my previous

193
00:07:24,870 --> 00:07:21,680
commanders and

194
00:07:27,430 --> 00:07:24,880
the success of a space flight is the

195
00:07:29,830 --> 00:07:27,440
teamwork so i would like to keep a good

196
00:07:31,189 --> 00:07:29,840
communication between the crew members

197
00:07:33,670 --> 00:07:31,199
and also

198
00:07:35,830 --> 00:07:33,680
all the mission control centers and isis

199
00:07:37,430 --> 00:07:35,840
program folks and that's the key and i

200
00:07:40,150 --> 00:07:37,440
would like to contribute to the good

201
00:07:41,830 --> 00:07:40,160
communication of the team

202
00:07:43,589 --> 00:07:41,840
okay and i think we have a question from

203
00:07:45,350 --> 00:07:43,599
amico we are accepting questions via

204
00:07:47,589 --> 00:07:45,360
social media so just a reminder to our

205
00:07:49,110 --> 00:07:47,599
viewers you can use the hashtag asknasa

206
00:08:11,670 --> 00:07:49,120
and we'll ask those

207
00:08:14,950 --> 00:08:12,710
and available been training for more

208
00:08:17,270 --> 00:08:14,960
than two years like uh koichi till

209
00:08:18,950 --> 00:08:17,280
koichi said and it kind of the training

210
00:08:21,029 --> 00:08:18,960
in itself kind of prepares you because

211
00:08:22,950 --> 00:08:21,039
we do a lot of traveling uh i spent a

212
00:08:24,230 --> 00:08:22,960
lot of time i go to russia for six weeks

213
00:08:25,670 --> 00:08:24,240

of training i come home the united

214
00:08:27,589 --> 00:08:25,680
states for three or four weeks to go

215
00:08:29,510 --> 00:08:27,599
back to the united states to russia for

216
00:08:31,110 --> 00:08:29,520
five or six weeks where then i go to

217
00:08:32,630 --> 00:08:31,120
germany for two weeks i come back home

218
00:08:34,310 --> 00:08:32,640
for three weeks i go to japan for a week

219
00:08:35,509 --> 00:08:34,320
or two back to russia so you're

220
00:08:37,909 --> 00:08:35,519
constantly traveling and you're

221
00:08:39,430 --> 00:08:37,919
constantly away from your family and

222
00:08:41,350 --> 00:08:39,440
thinking back on it actually prepares

223
00:08:43,430 --> 00:08:41,360
you for that separation from family and

224
00:08:45,990 --> 00:08:43,440
from your house and things like that for

225
00:08:47,350 --> 00:08:46,000
that long duration that six months or

226
00:08:49,190 --> 00:08:47,360
eight months actually that we're gonna

227
00:08:51,670 --> 00:08:49,200
be away from home it actually prepares

228
00:08:53,030 --> 00:08:51,680
you in a small way so i think it was

229
00:08:54,550 --> 00:08:53,040
actually good for me to be away from

230
00:08:56,949 --> 00:08:54,560
home for that much time for training

231
00:08:58,230 --> 00:08:56,959
because now my my family is

232
00:09:00,630 --> 00:08:58,240
learning to live without me i don't know

233
00:09:04,870 --> 00:09:00,640
if that's good or bad but

234
00:09:04,880 --> 00:09:11,430
a couple questions on this side

235
00:09:14,389 --> 00:09:13,030
good afternoon representing university

236
00:09:16,630 --> 00:09:14,399
of houston clear lake and we've got

237
00:09:19,110 --> 00:09:16,640
three questions for you um first one

238
00:09:20,470 --> 00:09:19,120

being how did uhcl uh clear lake further

239
00:09:21,910 --> 00:09:20,480
your career

240
00:09:23,509 --> 00:09:21,920
and this is a question directed to rick

241
00:09:27,030 --> 00:09:23,519
i'm sorry

242
00:09:31,990 --> 00:09:29,829
let's see when i arrived here in 1987 at

243
00:09:34,070 --> 00:09:32,000
the johnson space center i decided that

244
00:09:35,590 --> 00:09:34,080
it was that i wanted to pursue my

245
00:09:37,190 --> 00:09:35,600
education so of course university of

246
00:09:40,070 --> 00:09:37,200
houston clear lake was great very

247
00:09:41,910 --> 00:09:40,080
convenient close to home had the all the

248
00:09:43,590 --> 00:09:41,920
classes some great curriculum great

249
00:09:45,509 --> 00:09:43,600
programs so

250
00:09:47,190 --> 00:09:45,519
i think it helped me a lot in that i was

251
00:09:48,710 --> 00:09:47,200
competing when i was applying as an

252
00:09:50,949 --> 00:09:48,720
astronaut i was competing with some very

253
00:09:52,710 --> 00:09:50,959
talented folks and i think the the

254
00:09:53,910 --> 00:09:52,720
degree and the education that i got from

255
00:09:56,470 --> 00:09:53,920
the university of houston clear lake

256
00:09:58,550 --> 00:09:56,480
definitely gave me an edge

257
00:10:00,790 --> 00:09:58,560
um what advice would you give to uh

258
00:10:02,470 --> 00:10:00,800
clear lake students or alumnus trying to

259
00:10:03,509 --> 00:10:02,480
follow in your footsteps

260
00:10:05,430 --> 00:10:03,519
for anyone wanting to become an

261
00:10:07,750 --> 00:10:05,440
astronaut the advice i usually give is

262
00:10:08,710 --> 00:10:07,760
find something that you really enjoy and

263
00:10:11,590 --> 00:10:08,720

become

264
00:10:12,710 --> 00:10:11,600
if you can

265
00:10:14,949 --> 00:10:12,720
pursue it

266
00:10:17,190 --> 00:10:14,959
higher levels of education masters phds

267
00:10:18,790 --> 00:10:17,200
whatever you whatever you can do and

268
00:10:20,550 --> 00:10:18,800
then throw your name in the hat to try

269
00:10:22,550 --> 00:10:20,560
to become an astronaut apply and it may

270
00:10:24,550 --> 00:10:22,560
take many years it took me nine years of

271
00:10:25,910 --> 00:10:24,560
applying to become an astronaut and

272
00:10:27,910 --> 00:10:25,920
three interviews

273
00:10:29,990 --> 00:10:27,920
so it takes a lot of time takes a lot of

274
00:10:31,590 --> 00:10:30,000
effort and if you're doing something you

275
00:10:33,030 --> 00:10:31,600
really enjoy even if you don't get

276
00:10:35,110 --> 00:10:33,040
selected as astronaut you have a great

277
00:10:37,269 --> 00:10:35,120
career to fall back on so that's always

278
00:10:39,910 --> 00:10:37,279
my advice okay and was there a

279
00:10:42,310 --> 00:10:39,920
particular uh clear lake professor that

280
00:10:44,630 --> 00:10:42,320
influenced your path at nasa

281
00:10:46,790 --> 00:10:44,640
i wish i could say that i remembered

282
00:10:48,790 --> 00:10:46,800
some individuals there but i remember

283
00:10:49,910 --> 00:10:48,800
several the professors all of which were

284
00:10:52,310 --> 00:10:49,920
great but i don't remember their

285
00:10:53,509 --> 00:10:52,320
specific names

286
00:10:55,190 --> 00:10:53,519
okay and i believe we have another

287
00:10:56,550 --> 00:10:55,200
question on the side

288
00:10:59,190 --> 00:10:56,560

hi uh robert perlman with

289
00:11:00,710 --> 00:10:59,200
collectspace.com and space.com for rick

290
00:11:02,790 --> 00:11:00,720
um i understand you're doing a program

291
00:11:05,350 --> 00:11:02,800
called ride with rick yeah can you

292
00:11:07,350 --> 00:11:05,360
describe it and um and how it will how

293
00:11:08,949 --> 00:11:07,360
it's going and how it will continue to

294
00:11:11,269 --> 00:11:08,959
as you approach launch

295
00:11:13,269 --> 00:11:11,279
right when i started training a couple

296
00:11:15,110 --> 00:11:13,279
of years ago i wanted to include folks

297
00:11:16,310 --> 00:11:15,120
in my mission every time i fly in space

298
00:11:18,470 --> 00:11:16,320
i want to i want to include more and

299
00:11:20,230 --> 00:11:18,480
more folks in my missions you know and i

300
00:11:21,910 --> 00:11:20,240
can't fly everyone into orbit with me so

301
00:11:23,670 --> 00:11:21,920
i tried to figure out well how can i get

302
00:11:25,190 --> 00:11:23,680
folks more interested in following what

303
00:11:27,670 --> 00:11:25,200
the mission is and maybe actually get

304
00:11:29,750 --> 00:11:27,680
them kind of involved in some small way

305
00:11:31,030 --> 00:11:29,760
so i went to nicole and a few of the

306
00:11:33,030 --> 00:11:31,040
other folks and said hey i would really

307
00:11:34,550 --> 00:11:33,040
like to use the social media to try to

308
00:11:35,990 --> 00:11:34,560
get folks more involved and we came up

309
00:11:38,790 --> 00:11:36,000
with this idea about running this

310
00:11:40,470 --> 00:11:38,800
contest and it's pretty simple as i as i

311
00:11:42,069 --> 00:11:40,480
do my tweets on a regular basis every

312
00:11:44,389 --> 00:11:42,079
once in a while about once a month i'll

313
00:11:45,910 --> 00:11:44,399

send out a simple question and the first

314
00:11:47,829 --> 00:11:45,920
one to answer that question correctly

315
00:11:49,110 --> 00:11:47,839
gets the fly they send their picture to

316
00:11:50,629 --> 00:11:49,120
me and i'm going to fly their picture

317
00:11:52,710 --> 00:11:50,639
into orbit with me and i'm going to take

318
00:11:54,790 --> 00:11:52,720
a picture of their picture floating in

319
00:11:57,430 --> 00:11:54,800
the cupola window so they're actually in

320
00:11:59,430 --> 00:11:57,440
orbit with me so it's in a small way it

321
00:12:01,430 --> 00:11:59,440
gets them involved with the mission

322
00:12:03,030 --> 00:12:01,440
we're going to continue doing that

323
00:12:05,030 --> 00:12:03,040
at least up until launch and then we're

324
00:12:07,030 --> 00:12:05,040
going to think about how we could also

325
00:12:08,470 --> 00:12:07,040
maybe continue it after launch or try to

326
00:12:10,550 --> 00:12:08,480
get folks involved in some other way

327
00:12:12,150 --> 00:12:10,560
after launch

328
00:12:13,829 --> 00:12:12,160
and we should mention it's not too late

329
00:12:16,790 --> 00:12:13,839
to still get involved they can follow

330
00:12:18,150 --> 00:12:16,800
you on twitter at the astrorm yes and i

331
00:12:20,230 --> 00:12:18,160
think a question will be coming up at

332
00:12:22,150 --> 00:12:20,240
the end of the month right yes okay so

333
00:12:24,870 --> 00:12:22,160
stay tuned take notes

334
00:12:26,710 --> 00:12:24,880
okay so any other questions here maybe

335
00:12:33,190 --> 00:12:26,720
from some of the students okay just one

336
00:12:37,350 --> 00:12:34,949
oh hi this is for rick my name is

337
00:12:39,910 --> 00:12:37,360
actually nick mustachio and uh good

338
00:12:41,509 --> 00:12:39,920

night and so uh i'm a student at the

339
00:12:42,949 --> 00:12:41,519
university of texas at austin studying

340
00:12:45,269 --> 00:12:42,959
aerospace engineering and i'm a co-op

341
00:12:46,550 --> 00:12:45,279
here at nasa and my question is um so as

342
00:12:48,870 --> 00:12:46,560
students we're exposed to a lot of

343
00:12:50,710 --> 00:12:48,880
mentors during our time here and so i

344
00:12:52,790 --> 00:12:50,720
was wondering what one of your personal

345
00:12:55,509 --> 00:12:52,800
favorite mentors or the person who had

346
00:12:57,350 --> 00:12:55,519
the biggest impact on you was right

347
00:12:59,910 --> 00:12:57,360
uh i probably have to say when i first

348
00:13:01,750 --> 00:12:59,920
got out of college many many years ago

349
00:13:03,990 --> 00:13:01,760
i was working for a

350
00:13:05,670 --> 00:13:04,000
gentleman in connecticut for hamilton

351
00:13:07,269 --> 00:13:05,680
standard we were developing guidance

352
00:13:08,949 --> 00:13:07,279
systems and flight control systems for

353
00:13:11,190 --> 00:13:08,959
various vehicles

354
00:13:12,949 --> 00:13:11,200
and he was kind of my boss's boss's boss

355
00:13:14,389 --> 00:13:12,959
but he spent a lot of time with me

356
00:13:16,470 --> 00:13:14,399
talking to me

357
00:13:18,790 --> 00:13:16,480
helped me in my career he taught me a

358
00:13:20,550 --> 00:13:18,800
lot of technical things about guidance

359
00:13:22,790 --> 00:13:20,560
systems and things like that and i had a

360
00:13:24,389 --> 00:13:22,800
lot of respect for him and so i think

361
00:13:25,750 --> 00:13:24,399
that uh

362
00:13:27,350 --> 00:13:25,760
he helped me out quite a bit in that

363
00:13:29,030 --> 00:13:27,360

area

364
00:13:30,949 --> 00:13:29,040
okay next question

365
00:13:32,069 --> 00:13:30,959
hi my name is justin bautis i go to the

366
00:13:33,910 --> 00:13:32,079
university of

367
00:13:35,750 --> 00:13:33,920
california at riverside excuse me i'm

368
00:13:37,269 --> 00:13:35,760
studying electrical engineering and i

369
00:13:39,750 --> 00:13:37,279
wanted to know what exactly was the

370
00:13:41,110 --> 00:13:39,760
astronaut selection process for you um

371
00:13:43,189 --> 00:13:41,120
was there anything exceptional that you

372
00:13:44,870 --> 00:13:43,199
experienced or is that for me also yeah

373
00:13:46,949 --> 00:13:44,880
for you okay sorry usually i don't get

374
00:13:48,550 --> 00:13:46,959
any questions

375
00:13:50,550 --> 00:13:48,560
the astronaut selection process well it

376
00:13:54,310 --> 00:13:50,560
was a long road for me i started

377
00:13:56,710 --> 00:13:54,320
applying in 1986 1987 in that time frame

378
00:13:57,990 --> 00:13:56,720
and i i didn't get selected until 1996.

379
00:14:00,310 --> 00:13:58,000
you know the way the process worked you

380
00:14:01,990 --> 00:14:00,320
had to send in an application every year

381
00:14:04,629 --> 00:14:02,000
and then every two or three years they

382
00:14:06,870 --> 00:14:04,639
would actually do a selection process

383
00:14:10,310 --> 00:14:06,880
i was interviewed three times i believe

384
00:14:12,389 --> 00:14:10,320
in 1992 1994 and 1996.

385
00:14:13,509 --> 00:14:12,399
you know it's a very emotional process

386
00:14:18,470 --> 00:14:13,519
you never

387
00:14:20,550 --> 00:14:18,480
so it's always worthwhile to put in your

388
00:14:22,470 --> 00:14:20,560

application and see what happens

389
00:14:23,670 --> 00:14:22,480
uh the third time i was interviewing was

390
00:14:25,110 --> 00:14:23,680
the hard time a lot of folks would say

391
00:14:26,310 --> 00:14:25,120
to me third time's a charm and i would

392
00:14:27,269 --> 00:14:26,320
say yeah but three strikes and you're

393
00:14:28,629 --> 00:14:27,279
out so

394
00:14:30,069 --> 00:14:28,639
you know it's a trade-off there but i

395
00:14:32,870 --> 00:14:30,079
was lucky enough to get selected in

396
00:14:34,310 --> 00:14:32,880
1996.

397
00:14:37,990 --> 00:14:34,320
okay all right i think we have another

398
00:14:41,829 --> 00:14:40,310
hi my name is sarah gonzaga and i am

399
00:14:43,750 --> 00:14:41,839
studying mechanical engineering at

400
00:14:45,430 --> 00:14:43,760
stanford university i'm also a co-op

401
00:14:47,350 --> 00:14:45,440
here and i guess my question is for

402
00:14:49,350 --> 00:14:47,360
anyone really who wants to answer it but

403
00:14:50,790 --> 00:14:49,360
what has been your most memorable or

404
00:14:52,069 --> 00:14:50,800
favorite experience since you've been

405
00:14:55,509 --> 00:14:52,079
accepted you know to the astronaut

406
00:15:00,230 --> 00:14:58,069
uh yeah i still remember that was 21

407
00:15:01,829 --> 00:15:00,240
years ago i was selected as a national

408
00:15:04,550 --> 00:15:01,839
candidate and joined the astronaut nasa

409
00:15:07,910 --> 00:15:04,560
astronaut class of 1992. uh it was my

410
00:15:10,069 --> 00:15:07,920
first time to live outside of japan and

411
00:15:12,310 --> 00:15:10,079
i didn't understand most of the english

412
00:15:13,990 --> 00:15:12,320
jokes not only the technical part so

413
00:15:16,069 --> 00:15:14,000

it's been a challenge but i still

414
00:15:18,230 --> 00:15:16,079
remember when i first had the t-38

415
00:15:20,710 --> 00:15:18,240
training on the nasa jet

416
00:15:23,189 --> 00:15:20,720
that was a really memorable sensation

417
00:15:25,189 --> 00:15:23,199
and i got to learn a lot of

418
00:15:28,230 --> 00:15:25,199
technical part from my

419
00:15:30,230 --> 00:15:28,240
astronaut actually rick showed me

420
00:15:33,670 --> 00:15:30,240
the johnson space center when i first

421
00:15:35,269 --> 00:15:33,680
arrived here on in july of 1992. so i

422
00:15:38,069 --> 00:15:35,279
was really impressed with the facility

423
00:15:40,470 --> 00:15:38,079
of johnson space center and he was the

424
00:15:42,550 --> 00:15:40,480
tour guide at that time and later on he

425
00:15:44,870 --> 00:15:42,560
became an astronaut so the view of the

426
00:15:49,110 --> 00:15:44,880
jsc and flying on a t38 those are very

427
00:15:49,120 --> 00:15:53,110
michael did anybody else wanna

428
00:15:56,870 --> 00:15:55,430
see this is yeah to say hard to select

429
00:16:00,069 --> 00:15:56,880
uh something

430
00:16:02,949 --> 00:16:00,079
uh because i can say for sure that all

431
00:16:07,430 --> 00:16:02,959
my professional life is full of

432
00:16:10,069 --> 00:16:07,440
absolutely unique and unusual events

433
00:16:11,910 --> 00:16:10,079
it's hard to select one of them

434
00:16:13,670 --> 00:16:11,920
i'm serious

435
00:16:17,829 --> 00:16:13,680
because it's

436
00:16:19,269 --> 00:16:17,839
most of them are too much personal

437
00:16:21,110 --> 00:16:19,279
right

438
00:16:22,470 --> 00:16:21,120

i guess the the greatest things are

439
00:16:27,189 --> 00:16:22,480
launching

440
00:16:28,150 --> 00:16:27,199
pretty exciting and a lot of fun and of

441
00:16:29,430 --> 00:16:28,160
course

442
00:16:32,150 --> 00:16:29,440
when you're going out the door for those

443
00:16:36,470 --> 00:16:32,160
space walks it's pretty exciting also i

444
00:16:38,550 --> 00:16:36,480
i would do those a thousand times

445
00:16:43,990 --> 00:16:38,560
okay i think we've got a couple more

446
00:16:44,000 --> 00:16:47,829
come back

447
00:16:52,230 --> 00:16:49,670
hi my name is shironamekata from

448
00:16:53,829 --> 00:16:52,240
assassin's japanese daily newspaper i

449
00:16:55,990 --> 00:16:53,839
have a question to

450
00:16:57,590 --> 00:16:56,000
mihai and rick

451
00:17:00,710 --> 00:16:57,600
i'm very proud of

452
00:17:02,470 --> 00:17:00,720
coach wakata to be a first japanese

453
00:17:05,270 --> 00:17:02,480
commander of iss

454
00:17:06,630 --> 00:17:05,280
and i believe he is really suitable for

455
00:17:07,429 --> 00:17:06,640
that position

456
00:17:09,029 --> 00:17:07,439
so

457
00:17:12,710 --> 00:17:09,039
my question is

458
00:17:15,990 --> 00:17:12,720
how do you look at his personality or

459
00:17:18,390 --> 00:17:16,000
character would you give me some

460
00:17:19,909 --> 00:17:18,400
episode with him

461
00:17:22,150 --> 00:17:19,919
do you think he's a

462
00:17:22,949 --> 00:17:22,160
typical japanese

463
00:17:25,350 --> 00:17:22,959

thank you

464
00:17:28,630 --> 00:17:25,360
i'll go first i guess um yeah we've been

465
00:17:29,830 --> 00:17:28,640
working uh with uh koichi for almost two

466
00:17:31,669 --> 00:17:29,840
and a half years now in training and of

467
00:17:33,990 --> 00:17:31,679
course i've known him since i gave him

468
00:17:35,590 --> 00:17:34,000
that tour in 1992.

469
00:17:38,230 --> 00:17:35,600
you know and he's got a great reputation

470
00:17:40,230 --> 00:17:38,240
in the office he's a very smart

471
00:17:42,470 --> 00:17:40,240
astronaut he's a he's a very friendly

472
00:17:43,430 --> 00:17:42,480
guy and very capable very hard worker

473
00:17:45,110 --> 00:17:43,440
also

474
00:17:46,710 --> 00:17:45,120
but i think the thing that makes koichi

475
00:17:48,230 --> 00:17:46,720
a commander material is he knows that he

476
00:17:49,750 --> 00:17:48,240
has a very talented team working with

477
00:17:51,830 --> 00:17:49,760
him folks on the ground and folks in

478
00:17:53,430 --> 00:17:51,840
orbit and he lets us do our job and he

479
00:17:54,950 --> 00:17:53,440
just kind of

480
00:17:56,789 --> 00:17:54,960
sits back and he doesn't not he's not

481
00:17:58,549 --> 00:17:56,799
only a commander but he's also one of

482
00:18:00,870 --> 00:17:58,559
the workers he's working right alongside

483
00:18:05,430 --> 00:18:00,880
us to do all the uh the tasks that we

484
00:18:10,150 --> 00:18:07,830
james swan with uh nikonigo japanese

485
00:18:11,990 --> 00:18:10,160
social media question for uh

486
00:18:14,950 --> 00:18:12,000
kochiwa katasan

487
00:18:16,870 --> 00:18:14,960
what contributions has jaxa made to the

488
00:18:19,270 --> 00:18:16,880

space station

489
00:18:20,789 --> 00:18:19,280
to complete it and ongoing

490
00:18:22,870 --> 00:18:20,799
and what was the selection process for

491
00:18:26,310 --> 00:18:22,880
yourself to become the first

492
00:18:27,430 --> 00:18:26,320
japanese commander of the iss

493
00:18:29,909 --> 00:18:27,440
well

494
00:18:32,870 --> 00:18:29,919
i will answer your second question first

495
00:18:34,710 --> 00:18:32,880
uh i uh had a chance to fly on the space

496
00:18:36,549 --> 00:18:34,720
shuttle actually uh two shuttle short

497
00:18:38,870 --> 00:18:36,559
flights and then a long duration flight

498
00:18:40,950 --> 00:18:38,880
on the international space station so my

499
00:18:42,870 --> 00:18:40,960
previous flight experience

500
00:18:44,310 --> 00:18:42,880
served as one of the reasons to be

501
00:18:45,590 --> 00:18:44,320
selected as

502
00:18:46,789 --> 00:18:45,600
commander of the international space

503
00:18:47,830 --> 00:18:46,799
station

504
00:18:50,150 --> 00:18:47,840
and

505
00:18:51,830 --> 00:18:50,160
japan has been an essential partner of

506
00:18:53,110 --> 00:18:51,840
the international space station of

507
00:18:55,909 --> 00:18:53,120
course

508
00:18:58,230 --> 00:18:55,919
nasa and then ross cosmos european

509
00:18:59,990 --> 00:18:58,240
spaces the canadian space agency

510
00:19:02,950 --> 00:19:00,000
this is a teamwork of all the 15

511
00:19:05,990 --> 00:19:02,960
countries and japan has built the

512
00:19:08,710 --> 00:19:06,000
japanese kibble experimental module

513
00:19:11,110 --> 00:19:08,720

and htv that's coronatory logistics

514
00:19:13,750 --> 00:19:11,120
carrier to the space station

515
00:19:16,710 --> 00:19:13,760
kibo has been working without any big

516
00:19:17,990 --> 00:19:16,720
issues and producing extensive results

517
00:19:19,190 --> 00:19:18,000
in the science and technology

518
00:19:20,549 --> 00:19:19,200
experiments

519
00:19:23,110 --> 00:19:20,559
ever since it was

520
00:19:24,390 --> 00:19:23,120
assembled in 2008

521
00:19:26,390 --> 00:19:24,400
and last

522
00:19:29,110 --> 00:19:26,400
earlier this month

523
00:19:32,070 --> 00:19:29,120
the fourth flight of the konotori was

524
00:19:33,909 --> 00:19:32,080
successfully launched and delivered the

525
00:19:35,029 --> 00:19:33,919
cargo to the international space station

526
00:19:37,590 --> 00:19:35,039
so

527
00:19:38,950 --> 00:19:37,600
japan has become a really reliable

528
00:19:41,990 --> 00:19:38,960
partner of the international space

529
00:19:43,350 --> 00:19:42,000
station fulfilling the duties to

530
00:19:45,190 --> 00:19:43,360
contribute to the operation of the

531
00:19:46,710 --> 00:19:45,200
international space station

532
00:19:48,789 --> 00:19:46,720
and just follow up you spoke earlier

533
00:19:50,789 --> 00:19:48,799
about being able to have great

534
00:19:53,510 --> 00:19:50,799
communication on the space station with

535
00:19:55,430 --> 00:19:53,520
so many uh nationalities and languages

536
00:19:56,870 --> 00:19:55,440
how do you manage that and what language

537
00:19:58,950 --> 00:19:56,880
is maybe this question for all three of

538
00:20:01,430 --> 00:19:58,960

you what languages do you prefer and

539
00:20:03,350 --> 00:20:01,440
speak plan to speak on the space station

540
00:20:06,310 --> 00:20:03,360
it's a combination of many languages but

541
00:20:08,470 --> 00:20:06,320
we speak in russian and

542
00:20:09,830 --> 00:20:08,480
english those are the two official

543
00:20:11,830 --> 00:20:09,840
languages that we talk to the mission

544
00:20:13,430 --> 00:20:11,840
control centers throughout the control

545
00:20:15,590 --> 00:20:13,440
centers and

546
00:20:20,390 --> 00:20:15,600
sometimes we speak in japanese too so i

547
00:20:23,350 --> 00:20:21,350
okay

548
00:20:24,789 --> 00:20:23,360
next question

549
00:20:34,950 --> 00:20:24,799
all right i thought we have one back on

550
00:20:39,029 --> 00:20:36,789
hi my name is zeta hernandez i'm from

551
00:20:40,070 --> 00:20:39,039
the university of houston houston also a

552
00:20:43,190 --> 00:20:40,080
co-op

553
00:20:45,510 --> 00:20:43,200
my question was to astronaut rick

554
00:20:47,350 --> 00:20:45,520
before you spoke that you had a couple

555
00:20:49,029 --> 00:20:47,360
of years of training and i was curious

556
00:20:51,830 --> 00:20:49,039
what does the training actually consist

557
00:20:54,230 --> 00:20:51,840
of and how is training for iss different

558
00:20:56,070 --> 00:20:54,240
than training for say shuttle okay yeah

559
00:20:57,830 --> 00:20:56,080
the uh the biggest difference between

560
00:20:59,110 --> 00:20:57,840
space shuttle and space station training

561
00:21:00,870 --> 00:20:59,120
of course is the length of time you know

562
00:21:02,230 --> 00:21:00,880
space shuttle missions usually a year

563
00:21:04,630 --> 00:21:02,240

even less my first mission we only

564
00:21:05,990 --> 00:21:04,640
trained for six months before launch

565
00:21:07,430 --> 00:21:06,000
space station's training is about two

566
00:21:08,950 --> 00:21:07,440
and a half years and the reason for that

567
00:21:10,789 --> 00:21:08,960
it's so long is because we have so many

568
00:21:13,350 --> 00:21:10,799
countries involved and so many modules

569
00:21:15,029 --> 00:21:13,360
involved i spent about probably about

570
00:21:17,590 --> 00:21:15,039
one year of that two and a half years in

571
00:21:19,590 --> 00:21:17,600
russia training on the soyuz vehicle

572
00:21:21,669 --> 00:21:19,600
and the space station uh the russian

573
00:21:23,270 --> 00:21:21,679
segment of the space station so

574
00:21:25,350 --> 00:21:23,280
obviously the soyuz is the vehicle that

575
00:21:26,870 --> 00:21:25,360
brings us up into orbit and and returns

576
00:21:28,870 --> 00:21:26,880
us home safely after the mission and

577
00:21:30,310 --> 00:21:28,880
that takes a lot of training it's very

578
00:21:31,669 --> 00:21:30,320
similar to space shuttle training and

579
00:21:34,470 --> 00:21:31,679
that the space shuttle is our vehicle

580
00:21:35,990 --> 00:21:34,480
that that we fly up and down

581
00:21:37,430 --> 00:21:36,000
the space station training over here in

582
00:21:38,950 --> 00:21:37,440
the united states is quite extensive

583
00:21:40,470 --> 00:21:38,960
because there's so many systems that we

584
00:21:41,909 --> 00:21:40,480
have to learn

585
00:21:43,590 --> 00:21:41,919
there's robotics there's the space

586
00:21:45,590 --> 00:21:43,600
walking as well as all the space station

587
00:21:47,190 --> 00:21:45,600
systems the internal systems then of

588
00:21:49,669 --> 00:21:47,200

course there's all the payload training

589
00:21:51,830 --> 00:21:49,679
we get a lot of generic payload training

590
00:21:53,669 --> 00:21:51,840
and really just recently are really

591
00:21:55,510 --> 00:21:53,679
starting to do very specific payload

592
00:21:57,750 --> 00:21:55,520
training on the specific experiments

593
00:21:59,830 --> 00:21:57,760
that we may see while we're on orbit so

594
00:22:01,590 --> 00:21:59,840
it's a it's quite more it's uh the space

595
00:22:03,590 --> 00:22:01,600
station trading is quite extensive it's

596
00:22:06,149 --> 00:22:03,600
uh it's much more broad than the space

597
00:22:08,549 --> 00:22:06,159
shuttle training

598
00:22:16,789 --> 00:22:08,559
okay good question and

599
00:22:22,230 --> 00:22:19,590
uh thank you mark caro for aviation

600
00:22:23,029 --> 00:22:22,240
week week and mine's um

601
00:22:24,789 --> 00:22:23,039
for

602
00:22:27,350 --> 00:22:24,799
wakata please

603
00:22:28,710 --> 00:22:27,360
what does it mean for japan to have a

604
00:22:31,350 --> 00:22:28,720
commander

605
00:22:33,990 --> 00:22:31,360
as a nation and a country we kind of saw

606
00:22:35,669 --> 00:22:34,000
that that canada was

607
00:22:38,149 --> 00:22:35,679
was very

608
00:22:40,390 --> 00:22:38,159
became very alert to space during that

609
00:22:42,470 --> 00:22:40,400
mission and i wonder if you anticipate

610
00:22:43,350 --> 00:22:42,480
something like that in japan or some

611
00:22:45,830 --> 00:22:43,360
other

612
00:22:48,470 --> 00:22:45,840
response

613
00:22:50,310 --> 00:22:48,480

yes uh as the other international

614
00:22:52,549 --> 00:22:50,320
partner countries of the international

615
00:22:56,070 --> 00:22:52,559
space station expects japan feels the

616
00:22:57,270 --> 00:22:56,080
same way and it's it means a lot to

617
00:22:59,909 --> 00:22:57,280
japan

618
00:23:01,510 --> 00:22:59,919
to have its own representative

619
00:23:04,070 --> 00:23:01,520
to command the international space

620
00:23:07,110 --> 00:23:04,080
station especially after becoming a

621
00:23:11,830 --> 00:23:07,120
reliable partner of the the program

622
00:23:14,470 --> 00:23:11,840
and kibo and konotori have been working

623
00:23:16,870 --> 00:23:14,480
without any problems so i think it's a

624
00:23:18,630 --> 00:23:16,880
big milestone for the japanese human

625
00:23:20,149 --> 00:23:18,640
space exploration to have this

626
00:23:21,270 --> 00:23:20,159
experience

627
00:23:24,470 --> 00:23:21,280
to command

628
00:23:27,110 --> 00:23:24,480
and then hopefully uh we japan will be

629
00:23:29,909 --> 00:23:27,120
able to be an essential partner of the

630
00:23:32,950 --> 00:23:29,919
future human space program uh beyond low

631
00:23:34,070 --> 00:23:32,960
earth orbit and uh so i think it's a big

632
00:23:34,830 --> 00:23:34,080
milestone

633
00:23:37,110 --> 00:23:34,840
for

634
00:23:38,789 --> 00:23:37,120
japan okay we're actually going to take

635
00:23:40,070 --> 00:23:38,799
a quick break from here and take one of

636
00:23:41,830 --> 00:23:40,080
our um

637
00:23:43,750 --> 00:23:41,840
reporter questions from the phone bridge

638
00:23:45,909 --> 00:23:43,760

i believe we have bryn mandel with the

639
00:23:50,470 --> 00:23:45,919
republic american newspaper

640
00:23:54,710 --> 00:23:52,630
i wanted to ask about the

641
00:23:56,470 --> 00:23:54,720
logistics of the planned space walk can

642
00:23:58,630 --> 00:23:56,480
you talk a little bit more about that

643
00:24:00,149 --> 00:23:58,640
who will perform it how will the torch

644
00:24:01,510 --> 00:24:00,159
be transported out there and are there

645
00:24:04,070 --> 00:24:01,520
other tasks

646
00:24:06,070 --> 00:24:04,080
aside from the symbolic act involved and

647
00:24:08,390 --> 00:24:06,080
then finally how do the recent problems

648
00:24:10,310 --> 00:24:08,400
with the eva suit leak impact this

649
00:24:12,230 --> 00:24:10,320
subsequent eva

650
00:24:13,669 --> 00:24:12,240
well let me i'll work that question a

651
00:24:15,909 --> 00:24:13,679
little bit and then i'll let misha talk

652
00:24:18,549 --> 00:24:15,919
the details the spacewalk to bring the

653
00:24:20,549 --> 00:24:18,559
torch outside is a russian space walk

654
00:24:23,350 --> 00:24:20,559
that uses the russian

655
00:24:25,990 --> 00:24:23,360
orlan suit the space suit that we had

656
00:24:28,390 --> 00:24:26,000
the leak problem a few weeks back that's

657
00:24:30,630 --> 00:24:28,400
the american emu so they're two

658
00:24:31,830 --> 00:24:30,640
different suits that

659
00:24:34,549 --> 00:24:31,840
the one with the problem was the

660
00:24:36,390 --> 00:24:34,559
american emu the one that the uh that

661
00:24:38,470 --> 00:24:36,400
will do the space walk in for the torch

662
00:24:40,310 --> 00:24:38,480
is a russian airline i'll let misha or

663
00:24:42,789 --> 00:24:40,320

mikhail talk about the details of what

664
00:24:44,070 --> 00:24:42,799
they might do during those that eva okay

665
00:24:47,110 --> 00:24:44,080
thank you

666
00:24:49,190 --> 00:24:47,120
unfortunately i cannot

667
00:24:53,110 --> 00:24:49,200
tell too much

668
00:24:55,590 --> 00:24:53,120
about all the details related to this

669
00:24:56,710 --> 00:24:55,600
eva and its program and

670
00:24:59,029 --> 00:24:56,720
some

671
00:25:01,350 --> 00:24:59,039
specifics

672
00:25:03,350 --> 00:25:01,360
of this eva

673
00:25:04,390 --> 00:25:03,360
but as for

674
00:25:07,110 --> 00:25:04,400
torch

675
00:25:08,149 --> 00:25:07,120
i can say that uh

676
00:25:12,630 --> 00:25:08,159
the

677
00:25:14,470 --> 00:25:12,640
just a small

678
00:25:17,750 --> 00:25:14,480
part of

679
00:25:20,950 --> 00:25:17,760
all the planned activities for the cva

680
00:25:21,990 --> 00:25:20,960
most of them relate to some scientific

681
00:25:24,470 --> 00:25:22,000
program

682
00:25:27,669 --> 00:25:24,480
and some assembly

683
00:25:29,190 --> 00:25:27,679
steps and verification and some other

684
00:25:31,029 --> 00:25:29,200
technical

685
00:25:32,070 --> 00:25:31,039
aspects

686
00:25:33,669 --> 00:25:32,080
but

687
00:25:39,190 --> 00:25:33,679
from

688
00:25:41,430 --> 00:25:39,200

everything all the activities related to

689
00:25:43,750 --> 00:25:41,440
this torch are symbolic and are

690
00:25:46,630 --> 00:25:43,760
significant for

691
00:25:48,789 --> 00:25:46,640
for people actually

692
00:25:50,310 --> 00:25:48,799
that's why

693
00:25:52,310 --> 00:25:50,320
we have some

694
00:25:53,990 --> 00:25:52,320
sites of

695
00:25:57,269 --> 00:25:54,000
that demonstrate

696
00:25:59,149 --> 00:25:57,279
public interest to this event

697
00:26:01,430 --> 00:25:59,159
but again from technical and

698
00:26:03,269 --> 00:26:01,440
methodological point of view it's not a

699
00:26:05,590 --> 00:26:03,279
complicated task

700
00:26:15,669 --> 00:26:05,600
just take it out take a few pictures and

701
00:26:19,430 --> 00:26:17,190
okay we'll switch back here to the

702
00:26:20,630 --> 00:26:19,440
johnson space center and right here in

703
00:26:21,750 --> 00:26:20,640
this

704
00:26:22,950 --> 00:26:21,760
thanks

705
00:26:24,789 --> 00:26:22,960
hi

706
00:26:26,230 --> 00:26:24,799
my my name's sarah rose i'm a mechanical

707
00:26:27,909 --> 00:26:26,240
engineering student at texas christian

708
00:26:30,549 --> 00:26:27,919
university in fort worth and i'm a co-op

709
00:26:32,630 --> 00:26:30,559
here at jsc um what activities and

710
00:26:33,909 --> 00:26:32,640
experiments um if you all know which

711
00:26:36,830 --> 00:26:33,919
ones you're going to do yet are you most

712
00:26:39,909 --> 00:26:36,840
excited about for expedition

713
00:26:42,789 --> 00:26:39,919

38 well uh yeah we will be doing a lot

714
00:26:45,029 --> 00:26:42,799
of experiments and uh

715
00:26:47,029 --> 00:26:45,039
space medicine

716
00:26:48,070 --> 00:26:47,039
in the life science and some of the

717
00:26:49,990 --> 00:26:48,080
experiments that i'm very much

718
00:26:51,990 --> 00:26:50,000
interested is participating in the

719
00:26:53,510 --> 00:26:52,000
protein crystal growth experiments

720
00:26:55,110 --> 00:26:53,520
scientists are already

721
00:26:56,870 --> 00:26:55,120
utilizing the results of the protein

722
00:26:59,110 --> 00:26:56,880
crystal growth experiments utilizing the

723
00:27:01,990 --> 00:26:59,120
microgravity and some of the application

724
00:27:04,390 --> 00:27:02,000
is to come up with a new medicine for

725
00:27:07,269 --> 00:27:04,400
muscle dystrophy or

726
00:27:09,830 --> 00:27:07,279
medicine that can cope with the various

727
00:27:11,510 --> 00:27:09,840
strains of influenza viruses

728
00:27:13,990 --> 00:27:11,520
so i'll be participating in that

729
00:27:15,350 --> 00:27:14,000
experiment experiment and also some of

730
00:27:17,350 --> 00:27:15,360
the things that i'm excited to

731
00:27:18,710 --> 00:27:17,360
participate is the deploying a small

732
00:27:20,950 --> 00:27:18,720
satellite

733
00:27:22,549 --> 00:27:20,960
using the japanese robotic arm actually

734
00:27:24,389 --> 00:27:22,559
those four satellites already delivered

735
00:27:26,630 --> 00:27:24,399
to the international space station on

736
00:27:28,070 --> 00:27:26,640
the corner to the japanese cargo ship

737
00:27:29,750 --> 00:27:28,080
and we will be using the japanese

738
00:27:31,510 --> 00:27:29,760

robotic arm to deploy those four

739
00:27:33,669 --> 00:27:31,520
satellites actually one is a japanese

740
00:27:35,750 --> 00:27:33,679
and the vietnamese cooperative effort

741
00:27:38,389 --> 00:27:35,760
satellite and three us satellites so we

742
00:27:39,269 --> 00:27:38,399
will be using robotic arm to deploy

743
00:27:41,510 --> 00:27:39,279
actually

744
00:27:46,470 --> 00:27:41,520
throw out the satellites to the outer

745
00:27:49,430 --> 00:27:48,310
yeah let's see some of the experiments

746
00:27:50,710 --> 00:27:49,440
you know one of the experiments that's

747
00:27:52,789 --> 00:27:50,720
going on right now and that we will

748
00:27:55,590 --> 00:27:52,799
continue during our increment is it's

749
00:27:57,029 --> 00:27:55,600
called bass it's uh burn and suppression

750
00:27:58,230 --> 00:27:57,039
systems and basically what we do is we

751
00:28:00,310 --> 00:27:58,240
burn small

752
00:28:01,669 --> 00:28:00,320
uh different materials onboard the space

753
00:28:03,269 --> 00:28:01,679
station in a very controlled environment

754
00:28:04,950 --> 00:28:03,279
of course and see how and better

755
00:28:06,950 --> 00:28:04,960
understand how things combust and which

756
00:28:08,870 --> 00:28:06,960
can also help us understand how to keep

757
00:28:10,470 --> 00:28:08,880
things from combusting so that's always

758
00:28:12,070 --> 00:28:10,480
a fun experiment

759
00:28:14,389 --> 00:28:12,080
and like koichi said there's a lot of

760
00:28:15,350 --> 00:28:14,399
experiments on for new vaccines and

761
00:28:17,110 --> 00:28:15,360
medical

762
00:28:18,630 --> 00:28:17,120
new medicines and things like that that

763
00:28:20,070 --> 00:28:18,640

of course can be very valuable to the

764
00:28:21,669 --> 00:28:20,080
folks here on earth

765
00:28:22,870 --> 00:28:21,679
i don't have any one that's my favorite

766
00:28:24,149 --> 00:28:22,880
yet i'm sure when i get up there i'm

767
00:28:25,990 --> 00:28:24,159
going to find something that i really

768
00:28:27,269 --> 00:28:26,000
enjoy but you know the ones that are

769
00:28:28,789 --> 00:28:27,279
most interesting are the ones where i

770
00:28:31,830 --> 00:28:28,799
think that will bring the most benefit

771
00:28:33,590 --> 00:28:31,840
to the folks here on earth

772
00:28:38,710 --> 00:28:33,600
okay good question

773
00:28:41,830 --> 00:28:40,389
hi my name is james bowie i'm also a

774
00:28:44,710 --> 00:28:41,840
student at stanford university studying

775
00:28:46,950 --> 00:28:44,720
mechanical engineering at art and so

776
00:28:48,389 --> 00:28:46,960
at school and both here at the johnson

777
00:28:50,389 --> 00:28:48,399
space center we're surrounded by very

778
00:28:52,070 --> 00:28:50,399
gifted people it's kind of hard to stand

779
00:28:53,990 --> 00:28:52,080
out and so i have a question directed at

780
00:28:55,909 --> 00:28:54,000
rick for the astronaut application

781
00:28:57,350 --> 00:28:55,919
process it's kind of like how were you

782
00:28:58,230 --> 00:28:57,360
able to stand out

783
00:28:59,350 --> 00:28:58,240
like

784
00:29:01,590 --> 00:28:59,360
even though you're surrounded by

785
00:29:03,510 --> 00:29:01,600
extremely gifted people

786
00:29:04,789 --> 00:29:03,520
yeah that's a good question it's uh it's

787
00:29:06,470 --> 00:29:04,799
difficult

788
00:29:08,950 --> 00:29:06,480

the application process you're competing

789
00:29:10,389 --> 00:29:08,960
with such talented folks and again you

790
00:29:11,750 --> 00:29:10,399
really can't look at the other folks you

791
00:29:13,269 --> 00:29:11,760
just have to look at yourself and do the

792
00:29:15,029 --> 00:29:13,279
best you can it's kind of like running a

793
00:29:16,549 --> 00:29:15,039
race you know i used to run track in

794
00:29:17,990 --> 00:29:16,559
high school and my coach used to tell me

795
00:29:20,230 --> 00:29:18,000
don't look back when you're ahead you

796
00:29:21,110 --> 00:29:20,240
know just keep running or run as fast as

797
00:29:22,870 --> 00:29:21,120
you can

798
00:29:24,710 --> 00:29:22,880
it's a very similar in that you need to

799
00:29:26,389 --> 00:29:24,720
do the best you can do the best you can

800
00:29:28,070 --> 00:29:26,399
in your career do the best you can to be

801
00:29:30,950 --> 00:29:28,080
a well-rounded individual

802
00:29:32,630 --> 00:29:30,960
don't just try to be good at one thing

803
00:29:35,750 --> 00:29:32,640
pick up different hobbies and different

804
00:29:37,830 --> 00:29:35,760
interests to broaden uh what folks may

805
00:29:39,830 --> 00:29:37,840
be interested and see in you of course

806
00:29:41,909 --> 00:29:39,840
it's always helpful to speak second or

807
00:29:43,190 --> 00:29:41,919
third language

808
00:29:45,190 --> 00:29:43,200
things like that

809
00:29:47,029 --> 00:29:45,200
and but probably the most for me the

810
00:29:49,510 --> 00:29:47,039
thing that worked the best was uh just

811
00:29:51,110 --> 00:29:49,520
uh i was a i was a hard worker and i got

812
00:29:52,470 --> 00:29:51,120
i got a lot of good things done while i

813
00:29:55,269 --> 00:29:52,480

was working here at the johnson space

814
00:29:58,870 --> 00:29:55,279
center as an engineer and as a flight

815
00:30:02,950 --> 00:30:01,269
okay very good question and great advice

816
00:30:06,310 --> 00:30:02,960
all right we'll switch back to social

817
00:30:08,950 --> 00:30:06,320
media for another question

818
00:30:10,549 --> 00:30:08,960
so the science one was just asked

819
00:30:12,470 --> 00:30:10,559
earlier so we'll go to this other one

820
00:30:14,549 --> 00:30:12,480
and this can be one that has an answer

821
00:30:17,510 --> 00:30:14,559
from each one of you this one comes to

822
00:30:19,190 --> 00:30:17,520
us from daniel clarkson on facebook if

823
00:30:20,789 --> 00:30:19,200
you could bring three things with you

824
00:30:23,669 --> 00:30:20,799
that you can't normally what would that

825
00:30:25,190 --> 00:30:23,679
be three things into orbit that i can't

826
00:30:28,870 --> 00:30:25,200
normally bring you know they let us

827
00:30:30,870 --> 00:30:28,880
bring a lot of things into orbit uh

828
00:30:32,870 --> 00:30:30,880
let's see what's i think you know in

829
00:30:34,149 --> 00:30:32,880
terms of food you're gonna miss there's

830
00:30:35,750 --> 00:30:34,159
a lot of good food on board the

831
00:30:37,029 --> 00:30:35,760
international space station you know but

832
00:30:38,950 --> 00:30:37,039
some of the simple things i'm going to

833
00:30:40,310 --> 00:30:38,960
miss make like simply it'd be nice to

834
00:30:42,149 --> 00:30:40,320
have a piece of toast up there so i

835
00:30:43,750 --> 00:30:42,159
would bring a toaster we don't have a

836
00:30:44,950 --> 00:30:43,760
toaster

837
00:30:46,549 --> 00:30:44,960
but of course there's more important

838
00:30:47,990 --> 00:30:46,559

thing oh

839
00:30:49,430 --> 00:30:48,000
it's always nice to bring your family

840
00:30:52,549 --> 00:30:49,440
with you if you could of course you're

841
00:30:54,070 --> 00:30:52,559
going to miss i'm going to miss them and

842
00:31:00,070 --> 00:30:54,080
i really can't think of a third one i'll

843
00:31:06,389 --> 00:31:02,310
see i wouldn't

844
00:31:09,990 --> 00:31:06,399
like to to to dream about this but

845
00:31:13,190 --> 00:31:10,000
uh there is one i think i know for sure

846
00:31:18,870 --> 00:31:13,200
what i will take with me

847
00:31:22,470 --> 00:31:20,549
that's right well for me

848
00:31:24,389 --> 00:31:22,480
yeah of course it'll be nice if we can

849
00:31:26,149 --> 00:31:24,399
fly with our family members

850
00:31:28,149 --> 00:31:26,159
food is very important especially sushi

851
00:31:31,190 --> 00:31:28,159
for me we don't have sushi on space

852
00:31:33,509 --> 00:31:31,200
station yet but i really enjoy having a

853
00:31:35,430 --> 00:31:33,519
hot bath so

854
00:31:38,789 --> 00:31:35,440
in the future hopefully we can have hot

855
00:31:42,950 --> 00:31:41,029
okay and did you have another thank you

856
00:31:45,190 --> 00:31:42,960
actually yes we do have one more i'm

857
00:31:48,389 --> 00:31:45,200
going to ask this one also comes to us

858
00:31:50,950 --> 00:31:48,399
on facebook it comes from tony uh wolf

859
00:31:52,950 --> 00:31:50,960
it's always been a dream of mine to

860
00:31:55,269 --> 00:31:52,960
travel into space and also a dream of my

861
00:31:57,190 --> 00:31:55,279
15 year old daughter what words of

862
00:31:58,950 --> 00:31:57,200
advice and inspiration do you have for

863
00:32:01,990 --> 00:31:58,960

the younger generation who look up to

864
00:32:07,990 --> 00:32:05,350
well uh i agree with rick's suggestions

865
00:32:11,350 --> 00:32:08,000
but you have to enjoy what you do and

866
00:32:12,870 --> 00:32:11,360
you have to be good in what you do so

867
00:32:14,630 --> 00:32:12,880
i would like to

868
00:32:16,310 --> 00:32:14,640
suggest that

869
00:32:18,630 --> 00:32:16,320
whatever that the goal is

870
00:32:20,789 --> 00:32:18,640
it's good to have a like a very clear

871
00:32:23,029 --> 00:32:20,799
definite goal not only a simple dream

872
00:32:25,509 --> 00:32:23,039
but a very precise goal and then if you

873
00:32:28,950 --> 00:32:25,519
know what their precise aim or goal is

874
00:32:31,430 --> 00:32:28,960
you know how to get there to find the

875
00:32:34,310 --> 00:32:31,440
path is easier if you have a clear goal

876
00:32:37,430 --> 00:32:34,320
so set a goal and set a goal high and

877
00:32:39,110 --> 00:32:37,440
make every effort that you can do and if

878
00:32:41,269 --> 00:32:39,120
you don't give up

879
00:32:42,789 --> 00:32:41,279
you will get there and even if you

880
00:32:45,350 --> 00:32:42,799
cannot get there

881
00:32:48,149 --> 00:32:45,360
in the path that you strive and you made

882
00:32:50,710 --> 00:32:48,159
effort you are learning a lot and that

883
00:32:55,430 --> 00:32:50,720
will help you for your future planning

884
00:32:59,909 --> 00:32:57,990
okay uh go ahead let's see just one

885
00:33:06,230 --> 00:32:59,919
moment for the microphone round to the

886
00:33:10,470 --> 00:33:08,710
yeah james spawn with nico nico again uh

887
00:33:13,350 --> 00:33:10,480
each of you has spent uh

888
00:33:15,509 --> 00:33:13,360

hundreds of days in space uh we're

889
00:33:17,590 --> 00:33:15,519
curious how do you feel when you return

890
00:33:19,990 --> 00:33:17,600
and what is it that

891
00:33:23,509 --> 00:33:20,000
nasa or jackson will be looking at

892
00:33:24,710 --> 00:33:23,519
as far as data to help with uh exploring

893
00:33:29,269 --> 00:33:24,720
you know

894
00:33:32,630 --> 00:33:31,190
well yes

895
00:33:33,430 --> 00:33:32,640
not only we

896
00:33:35,350 --> 00:33:33,440
do

897
00:33:37,750 --> 00:33:35,360
work

898
00:33:39,509 --> 00:33:37,760
as an operator on both the space station

899
00:33:41,830 --> 00:33:39,519
those guys are specialists of flying the

900
00:33:44,549 --> 00:33:41,840
soyuz spacecraft and then spacewalking

901
00:33:46,789 --> 00:33:44,559
and robotics operation but we ourselves

902
00:33:48,710 --> 00:33:46,799
are the test subjects of the

903
00:33:50,149 --> 00:33:48,720
physiological experiments

904
00:33:52,230 --> 00:33:50,159
and the last time when i flew on board

905
00:33:53,990 --> 00:33:52,240
the station i was one of the test

906
00:33:56,070 --> 00:33:54,000
subjects of a

907
00:33:57,669 --> 00:33:56,080
bone marrow experiment what kind of a

908
00:34:01,190 --> 00:33:57,679
bone density i kept them what kind of

909
00:34:05,269 --> 00:34:03,990
mass i kept before and then after the

910
00:34:07,350 --> 00:34:05,279
flight so

911
00:34:09,510 --> 00:34:07,360
we will use the physiological data of

912
00:34:12,230 --> 00:34:09,520
ourselves to come up with the counter

913
00:34:14,230 --> 00:34:12,240

measures to cope with the situation for

914
00:34:16,470 --> 00:34:14,240
our flight on the space station and also

915
00:34:18,470 --> 00:34:16,480
for further flight beyond low author of

916
00:34:19,750 --> 00:34:18,480
it and also this kind of data like for

917
00:34:21,829 --> 00:34:19,760
example

918
00:34:24,389 --> 00:34:21,839
muscle loss bone loss

919
00:34:27,030 --> 00:34:24,399
and maybe the high

920
00:34:28,149 --> 00:34:27,040
side reduction due to the intracranial

921
00:34:30,230 --> 00:34:28,159
pressure

922
00:34:31,589 --> 00:34:30,240
increase in space these things will not

923
00:34:33,829 --> 00:34:31,599
only help our

924
00:34:39,750 --> 00:34:33,839
astronauts health but also

925
00:34:43,030 --> 00:34:41,669
okay let's see we'll take another call

926
00:34:44,790 --> 00:34:43,040
for questions here from the johnson

927
00:34:48,470 --> 00:34:44,800
space center or any more via social

928
00:34:52,790 --> 00:34:50,710
okay

929
00:34:55,109 --> 00:34:52,800
sorry um there is one more that comes to

930
00:34:56,470 --> 00:34:55,119
us on twitter and the question is do all

931
00:34:59,750 --> 00:34:56,480
of the astronauts do all of your crew

932
00:35:02,790 --> 00:34:59,760
members go to bed at the same time

933
00:35:05,750 --> 00:35:02,800
do we go to sleep at the same time

934
00:35:07,750 --> 00:35:05,760
my experience on my shuttle missions is

935
00:35:09,990 --> 00:35:07,760
no some folks

936
00:35:11,510 --> 00:35:10,000
tended to go to sleep at the schedule

937
00:35:12,950 --> 00:35:11,520
time some folks tended to stay up a

938
00:35:14,470 --> 00:35:12,960

little later maybe look out the window

939
00:35:15,750 --> 00:35:14,480
for a few extra minutes and i imagine

940
00:35:18,150 --> 00:35:15,760
station's not going to be much different

941
00:35:19,109 --> 00:35:18,160
than that

942
00:35:23,349 --> 00:35:19,119
like

943
00:35:29,430 --> 00:35:26,150
okay any last questions

944
00:35:31,030 --> 00:35:29,440
go ahead i'll just move on from my phone

945
00:35:33,030 --> 00:35:31,040
adam hawkins i'm a student at north

946
00:35:34,550 --> 00:35:33,040
carolina state university majoring in

947
00:35:36,230 --> 00:35:34,560
aerospace engineering

948
00:35:37,270 --> 00:35:36,240
um i have a question about

949
00:35:39,430 --> 00:35:37,280
during the

950
00:35:42,550 --> 00:35:39,440
when you're applying to be an astronaut

951
00:35:44,950 --> 00:35:42,560
and you said you applied for nine years

952
00:35:47,670 --> 00:35:44,960
during that time what kind of mindset do

953
00:35:49,589 --> 00:35:47,680
you find works best you know when you

954
00:35:50,870 --> 00:35:49,599
do you say um

955
00:35:52,550 --> 00:35:50,880
you know there's something wrong with my

956
00:35:53,910 --> 00:35:52,560
application so i have to do something to

957
00:35:54,870 --> 00:35:53,920
make it better for the next time or do

958
00:35:56,950 --> 00:35:54,880
you say

959
00:35:58,870 --> 00:35:56,960
you know there's nothing wrong just keep

960
00:36:00,310 --> 00:35:58,880
trying

961
00:36:03,270 --> 00:36:00,320
yeah i didn't think there was anything

962
00:36:04,390 --> 00:36:03,280
wrong with my application i think it was

963
00:36:08,310 --> 00:36:04,400

it was

964
00:36:12,950 --> 00:36:11,030
probably widening my my goals out a

965
00:36:15,190 --> 00:36:12,960
little bit becoming a more well-rounded

966
00:36:16,790 --> 00:36:15,200
person of course getting more experience

967
00:36:19,030 --> 00:36:16,800
and when i started applying i was fairly

968
00:36:21,190 --> 00:36:19,040
young i was only 26 years old so i was

969
00:36:22,950 --> 00:36:21,200
competing with a lot of folks with phds

970
00:36:24,790 --> 00:36:22,960
and had higher levels of education and

971
00:36:26,230 --> 00:36:24,800
higher levels of experience than i so i

972
00:36:27,670 --> 00:36:26,240
needed to get some more experience i

973
00:36:29,589 --> 00:36:27,680
needed to get some

974
00:36:31,910 --> 00:36:29,599
higher level degrees i needed to do

975
00:36:33,750 --> 00:36:31,920
other things i expanded into i got a

976
00:36:35,829 --> 00:36:33,760
pilot's license and things like that so

977
00:36:38,630 --> 00:36:35,839
i tried to expand

978
00:36:39,990 --> 00:36:38,640
some of my skills and talents so that

979
00:36:41,589 --> 00:36:40,000
i had a better chance of getting

980
00:36:43,270 --> 00:36:41,599
selected so that's all every year i

981
00:36:44,790 --> 00:36:43,280
applied i just tried to do a few you

982
00:36:46,630 --> 00:36:44,800
know i tried to make it better and

983
00:36:47,990 --> 00:36:46,640
better tried to do more things in life

984
00:36:49,990 --> 00:36:48,000
to improve my chances of getting

985
00:36:52,390 --> 00:36:50,000
selected

986
00:36:54,230 --> 00:36:52,400
but the things i did i did not do to get

987
00:36:56,710 --> 00:36:54,240
selected the things i did were things

988
00:36:58,470 --> 00:36:56,720

that i wanted to do

989
00:36:59,829 --> 00:36:58,480
so i didn't do things like oh if i do

990
00:37:01,349 --> 00:36:59,839
this i'll get selected as an astronaut

991
00:37:02,710 --> 00:37:01,359
no i never thought about that in any way

992
00:37:04,069 --> 00:37:02,720
shape or form i would just do things

993
00:37:06,310 --> 00:37:04,079
that i want to do i wanted to be a pilot

994
00:37:08,150 --> 00:37:06,320
i wanted to do go to a school and get an

995
00:37:10,069 --> 00:37:08,160
advanced degree and these are things

996
00:37:11,829 --> 00:37:10,079
that helped me get selected

997
00:37:13,510 --> 00:37:11,839
so my suggestion is you know live your

998
00:37:16,150 --> 00:37:13,520
life to the fullest and then apply and

999
00:37:18,550 --> 00:37:16,160
see what happens

1000
00:37:20,630 --> 00:37:18,560
okay so those were some great questions

1001
00:37:22,310 --> 00:37:20,640
and great inspiring words and some

1002
00:37:23,910 --> 00:37:22,320
advice thank you so much and we look

1003
00:37:25,589 --> 00:37:23,920
forward to following you to your mission

1004
00:37:27,030 --> 00:37:25,599
again a reminder for

1005
00:37:30,230 --> 00:37:27,040
the latest information on their mission

1006
00:37:33,190 --> 00:37:30,240
go to www.nasa.gov

1007
00:37:35,910 --> 00:37:33,200
station and one last call out to follow