



1  
00:00:12,950 --> 00:00:07,990  
station this is wisconsin public radio

2  
00:00:17,189 --> 00:00:15,110  
we have you loud and clear mike and good

3  
00:00:19,269 --> 00:00:17,199  
to hear your voice

4  
00:00:21,990 --> 00:00:19,279  
it's great to hear yours too jennifer is

5  
00:00:22,790 --> 00:00:22,000  
here she says hello she's smiling and i

6  
00:00:28,710 --> 00:00:22,800  
hope

7  
00:00:31,990 --> 00:00:30,310  
well thank you very much yeah i just

8  
00:00:35,030 --> 00:00:32,000  
talked to them a little while ago and

9  
00:00:36,790 --> 00:00:35,040  
they're doing great at home uh and anna

10  
00:00:39,590 --> 00:00:36,800  
marie's definitely enjoying being a

11  
00:00:44,389 --> 00:00:41,670  
still taking a lot of pictures and how

12  
00:00:48,389 --> 00:00:44,399  
does northern wisconsin look from space

13  
00:00:52,709 --> 00:00:50,470

well it obviously looks very different

14

00:00:55,189 --> 00:00:52,719

during the winter time

15

00:00:57,270 --> 00:00:55,199

instead of the darks of the forest and

16

00:00:58,869 --> 00:00:57,280

the lakes so get the whites of

17

00:01:01,029 --> 00:00:58,879

the snow and i know you've gotten plenty

18

00:01:03,750 --> 00:01:01,039

of snow up there i just passed over

19

00:01:05,830 --> 00:01:03,760

duluth superior oh a week and a half ago

20

00:01:08,630 --> 00:01:05,840

or so and i see the harbors about froze

21

00:01:10,550 --> 00:01:08,640

up so i enjoyed seeing that that's much

22

00:01:13,109 --> 00:01:10,560

different than the last time i was up

23

00:01:15,190 --> 00:01:13,119

here and yes i am taking lots of

24

00:01:18,390 --> 00:01:15,200

pictures

25

00:01:21,270 --> 00:01:18,400

this is for all three of you

26

00:01:22,710 --> 00:01:21,280

perhaps engineer noguchi first

27

00:01:24,870 --> 00:01:22,720

do you feel like you're part of history

28

00:01:30,310 --> 00:01:24,880

completing the space station at least

29

00:01:34,870 --> 00:01:32,469

yeah it's actually quite an honor to be

30

00:01:36,390 --> 00:01:34,880

on board the station this time

31

00:01:39,190 --> 00:01:36,400

during our mission we're going to have a

32

00:01:41,429 --> 00:01:39,200

the new module coming up note 3 and a

33

00:01:43,910 --> 00:01:41,439

big window and also

34

00:01:44,630 --> 00:01:43,920

tj and i will start news soon to start

35

00:01:48,469 --> 00:01:44,640

the

36

00:01:55,910 --> 00:01:48,479

keyboard module so i'm really happy to

37

00:02:03,030 --> 00:01:57,749

uh engineer kramer

38

00:02:06,149 --> 00:02:04,149

i was giving an opportunity to ask

39

00:02:06,950 --> 00:02:06,159

another if you needed to absolutely i

40

00:02:08,869 --> 00:02:06,960

mean

41

00:02:10,949 --> 00:02:08,879

a couple of things stand out the

42

00:02:12,710 --> 00:02:10,959

completion or the

43

00:02:14,150 --> 00:02:12,720

nearing the completion for sure

44

00:02:16,309 --> 00:02:14,160

as well as the international crew that

45

00:02:18,550 --> 00:02:16,319

we have is just a testament to everyone

46

00:02:20,390 --> 00:02:18,560

working together one big team

47

00:02:22,550 --> 00:02:20,400

accomplishing something that

48

00:02:25,190 --> 00:02:22,560

probably ranks as the largest

49

00:02:26,229 --> 00:02:25,200

engineering project that the world has

50

00:02:27,589 --> 00:02:26,239

ever seen

51  
00:02:29,030 --> 00:02:27,599  
in terms of how many people and how many

52  
00:02:30,949 --> 00:02:29,040  
countries are put together

53  
00:02:32,869 --> 00:02:30,959  
to make this happen absolutely part of

54  
00:02:34,309 --> 00:02:32,879  
history

55  
00:02:38,309 --> 00:02:34,319  
colonel williams told me the first time

56  
00:02:40,869 --> 00:02:38,319  
he was in space the veteran crew let him

57  
00:02:42,070 --> 00:02:40,879  
soak up the moment is this being your

58  
00:02:44,309 --> 00:02:42,080  
first trip

59  
00:02:49,589 --> 00:02:44,319  
is commander williams doing the same for

60  
00:02:52,790 --> 00:02:51,350  
i think i think the best thing to say

61  
00:02:55,990 --> 00:02:52,800  
about jeff is that

62  
00:02:57,509 --> 00:02:56,000  
he's mentoring us in in how to live in

63  
00:02:59,990 --> 00:02:57,519

space and how to get

64

00:03:01,110 --> 00:03:00,000

get along with the the uniqueness of the

65

00:03:04,390 --> 00:03:01,120

environment

66

00:03:05,830 --> 00:03:04,400

um has encouraged us to experience the

67

00:03:07,509 --> 00:03:05,840

the living and and

68

00:03:11,750 --> 00:03:07,519

well the wonder that exists here for

69

00:03:17,030 --> 00:03:14,790

and engineering uh same question how is

70

00:03:22,630 --> 00:03:17,040

it working for commander williams is he

71

00:03:29,110 --> 00:03:25,670

yes uh yeah obviously uh well we've been

72

00:03:30,390 --> 00:03:29,120

a classmate since 1996 and uh it's great

73

00:03:32,630 --> 00:03:30,400

to have him

74

00:03:35,030 --> 00:03:32,640

on board he tell me everything how to

75

00:03:38,149 --> 00:03:35,040

live in space actually this is my second

76

00:03:41,030 --> 00:03:38,159

flight but the last time was a short

77

00:03:43,110 --> 00:03:41,040

duration flight and it's uh just a lot

78

00:03:45,430 --> 00:03:43,120

the difference to living in space

79

00:03:49,750 --> 00:03:45,440

station so he gave me a show me all the

80

00:03:54,470 --> 00:03:52,710

and commander williams

81

00:04:00,070 --> 00:03:54,480

what'd you do for the crew for for

82

00:04:03,830 --> 00:04:01,990

well we celebrated first with the

83

00:04:05,589 --> 00:04:03,840

arrival of these guys and their russian

84

00:04:07,990 --> 00:04:05,599

crewmate all like max and i had been on

85

00:04:10,710 --> 00:04:08,000

board by ourselves for about three weeks

86

00:04:12,229 --> 00:04:10,720

after uh the last soyuz crew left

87

00:04:14,309 --> 00:04:12,239

so we were happy to see them they

88

00:04:15,270 --> 00:04:14,319

arrived on the 23rd two days before

89

00:04:17,430 --> 00:04:15,280

christmas

90

00:04:19,430 --> 00:04:17,440

and of course with a schedule like that

91

00:04:20,710 --> 00:04:19,440

they couldn't help but arrive bearing

92

00:04:22,150 --> 00:04:20,720

gifts

93

00:04:23,670 --> 00:04:22,160

in fact they were dressed up for the

94

00:04:27,110 --> 00:04:23,680

part as well you might have saw their

95

00:04:28,870 --> 00:04:27,120

ingress video as they came in

96

00:04:31,670 --> 00:04:28,880

so two days later of course we

97

00:04:33,189 --> 00:04:31,680

celebrated christmas and like most folks

98

00:04:35,270 --> 00:04:33,199

around the world we celebrated it

99

00:04:37,830 --> 00:04:35,280

primarily around the dinner table

100

00:04:40,310 --> 00:04:37,840

we had some special food from all the

101  
00:04:42,390 --> 00:04:40,320  
countries represented here

102  
00:04:45,189 --> 00:04:42,400  
and just enjoyed our time

103  
00:04:47,510 --> 00:04:45,199  
we also invited the the ground team the

104  
00:04:50,230 --> 00:04:47,520  
mission control teams uh around the

105  
00:04:53,670 --> 00:04:50,240  
world on board to join us for the meal

106  
00:04:55,749 --> 00:04:53,680  
uh via video uh and thereby they could

107  
00:04:58,550 --> 00:04:55,759  
vicariously take part in it so we we

108  
00:05:00,629 --> 00:04:58,560  
just had a great time

109  
00:05:01,909 --> 00:05:00,639  
was this your first christmas from away

110  
00:05:04,469 --> 00:05:01,919  
from home

111  
00:05:09,110 --> 00:05:04,479  
and how do you how is it celebrating

112  
00:05:12,629 --> 00:05:11,270  
uh let's see i have to think about it i

113  
00:05:14,469 --> 00:05:12,639

might have missed one or two other

114

00:05:15,749 --> 00:05:14,479

christmases on military deployments i

115

00:05:17,350 --> 00:05:15,759

can't remember for sure this has

116

00:05:20,390 --> 00:05:17,360

definitely been my first

117

00:05:21,189 --> 00:05:20,400

christmas away on a space flight or in

118

00:05:26,629 --> 00:05:21,199

in

119

00:05:28,710 --> 00:05:26,639

so it was different from that respect we

120

00:05:30,950 --> 00:05:28,720

all also also

121

00:05:33,189 --> 00:05:30,960

had the opportunity to have video

122

00:05:35,110 --> 00:05:33,199

conferences with our family on that day

123

00:05:36,710 --> 00:05:35,120

so we could partake a little bit in what

124

00:05:39,830 --> 00:05:36,720

our families were doing for christmas

125

00:05:42,150 --> 00:05:39,840

and mitigate the separation a little bit

126  
00:05:43,270 --> 00:05:42,160  
obviously being here is very unique to

127  
00:05:48,150 --> 00:05:43,280  
be here

128  
00:05:49,830 --> 00:05:48,160  
events like christmas and to to ponder

129  
00:05:52,550 --> 00:05:49,840  
the meaning of it and the traditions

130  
00:05:55,510 --> 00:05:52,560  
that we have and share behind it

131  
00:05:57,270 --> 00:05:55,520  
as you view the earth below it's

132  
00:06:00,790 --> 00:05:57,280  
an incredible experience and just adds

133  
00:06:05,830 --> 00:06:03,029  
i got a chance to talk to

134  
00:06:07,749 --> 00:06:05,840  
nasa chief administrator bold in moscow

135  
00:06:09,189 --> 00:06:07,759  
while i was there and he made a point of

136  
00:06:09,990 --> 00:06:09,199  
saying that he wants

137  
00:06:16,790 --> 00:06:10,000  
more

138  
00:06:20,710 --> 00:06:16,800

young people from small towns from small

139

00:06:21,830 --> 00:06:20,720

cities to get involved in nasa do you do

140

00:06:24,070 --> 00:06:21,840

you think that

141

00:06:28,469 --> 00:06:24,080

that that's by you being up there that

142

00:06:33,189 --> 00:06:30,629

oh i think by all of us being up here

143

00:06:34,550 --> 00:06:33,199

whoever is up here

144

00:06:36,469 --> 00:06:34,560

and with the

145

00:06:37,990 --> 00:06:36,479

individual backgrounds that we all bring

146

00:06:41,270 --> 00:06:38,000

we all

147

00:06:48,870 --> 00:06:42,950

can contribute to the

148

00:06:53,270 --> 00:06:51,110

make an effort to get the word out and

149

00:06:55,270 --> 00:06:53,280

to show people what we're doing we are

150

00:06:57,909 --> 00:06:55,280

an open program open to the public

151  
00:06:59,430 --> 00:06:57,919  
there's nothing secret that we do

152  
00:07:01,830 --> 00:06:59,440  
and it is for

153  
00:07:03,589 --> 00:07:01,840  
people it's for the national countries

154  
00:07:05,350 --> 00:07:03,599  
that are represented here as well as the

155  
00:07:07,029 --> 00:07:05,360  
international partnership and on a

156  
00:07:10,629 --> 00:07:07,039  
broader scale it's for the whole world

157  
00:07:12,309 --> 00:07:10,639  
so hopefully we do bring inspiration to

158  
00:07:14,870 --> 00:07:12,319  
people to uh

159  
00:07:17,990 --> 00:07:14,880  
to maybe look past their horizons

160  
00:07:20,230 --> 00:07:18,000  
and be inspired to go beyond where

161  
00:07:26,230 --> 00:07:20,240  
otherwise they would go

162  
00:07:31,189 --> 00:07:29,029  
of course it's um you never tire viewing

163  
00:07:32,629 --> 00:07:31,199

the earth from this vantage point and of

164

00:07:34,790 --> 00:07:32,639

course last time i was here in the

165

00:07:36,390 --> 00:07:34,800

spring and summer into the early fall

166

00:07:38,390 --> 00:07:36,400

this time it's the other seasons of the

167

00:07:40,469 --> 00:07:38,400

year so you see something completely

168

00:07:41,589 --> 00:07:40,479

different in all parts of the world

169

00:07:42,950 --> 00:07:41,599

and

170

00:07:45,110 --> 00:07:42,960

for me personally it gives an

171

00:07:47,270 --> 00:07:45,120

opportunity to capture

172

00:07:49,749 --> 00:07:47,280

the images of an entire year around the

173

00:07:52,230 --> 00:07:49,759

globe so i'm i'm definitely taking lots

174

00:07:54,950 --> 00:07:52,240

of photography

175

00:07:57,110 --> 00:07:54,960

is there any study of climate change or

176  
00:07:58,950 --> 00:07:57,120  
or changes from the vantage point of the

177  
00:08:03,110 --> 00:07:58,960  
international space station while you're

178  
00:08:07,830 --> 00:08:05,270  
we're not specifically participating in

179  
00:08:10,390 --> 00:08:07,840  
any studies in in that regard obviously

180  
00:08:13,749 --> 00:08:10,400  
all of the photography that we take is a

181  
00:08:15,350 --> 00:08:13,759  
public domain and it's used not only for

182  
00:08:18,070 --> 00:08:15,360  
just viewing the different sites in

183  
00:08:19,350 --> 00:08:18,080  
general but also for a lot of scientific

184  
00:08:21,350 --> 00:08:19,360  
studies

185  
00:08:23,430 --> 00:08:21,360  
earth scientists and others use that

186  
00:08:25,350 --> 00:08:23,440  
photography for their purposes and i'm

187  
00:08:28,070 --> 00:08:25,360  
sure that the photography we're taking

188  
00:08:31,029 --> 00:08:28,080

makes a contribution into the those

189

00:08:33,909 --> 00:08:31,039

studies that you ask about

190

00:08:37,029 --> 00:08:33,919

and flight engineer noguchi are you

191

00:08:42,630 --> 00:08:37,039

enjoying the watching him take pictures

192

00:08:46,870 --> 00:08:44,550

uh yeah definitely actually taking

193

00:08:49,670 --> 00:08:46,880

picture from uh

194

00:08:52,630 --> 00:08:49,680

speaking from the station is really the

195

00:08:54,949 --> 00:08:52,640

tough job and uh probably i need maybe a

196

00:08:57,750 --> 00:08:54,959

month or so to people i get uh used to

197

00:08:59,110 --> 00:08:57,760

taking a picture so obviously uh jeff is

198

00:09:00,389 --> 00:08:59,120

a great uh

199

00:09:02,070 --> 00:09:00,399

photographer

200

00:09:05,269 --> 00:09:02,080

i know he takes a bunch of pictures in

201  
00:09:07,430 --> 00:09:05,279  
the last mission this time also so

202  
00:09:10,710 --> 00:09:07,440  
so i'm really looking forward to learn

203  
00:09:12,230 --> 00:09:10,720  
from him about the taking pictures

204  
00:09:14,389 --> 00:09:12,240  
and flight one of the things i'll add to

205  
00:09:16,710 --> 00:09:14,399  
that is that we change our or we change

206  
00:09:18,550 --> 00:09:16,720  
our orbital path all the time every day

207  
00:09:20,389 --> 00:09:18,560  
and we go through periods occasionally

208  
00:09:21,990 --> 00:09:20,399  
where there's not a whole lot to view

209  
00:09:23,910 --> 00:09:22,000  
that's good to take pictures and we're

210  
00:09:25,910 --> 00:09:23,920  
actually currently in that state where

211  
00:09:29,110 --> 00:09:25,920  
we spend most of our time over the

212  
00:09:31,110 --> 00:09:29,120  
oceans and not a whole lot of time

213  
00:09:33,670 --> 00:09:31,120

over interesting places to take pictures

214

00:09:35,910 --> 00:09:33,680

so we will increase the

215

00:09:38,470 --> 00:09:35,920

the amount of activity that we do that

216

00:09:40,870 --> 00:09:38,480

that we're taking pictures shortly

217

00:09:46,550 --> 00:09:40,880

you plan to beat your record of

218

00:09:50,150 --> 00:09:48,230

well things are a little bit busier here

219

00:09:52,230 --> 00:09:50,160

now being a crew of five we were a crew

220

00:09:53,030 --> 00:09:52,240

of six uh for the first couple of months

221

00:09:56,870 --> 00:09:53,040

here

222

00:09:57,670 --> 00:09:56,880

than the last time

223

00:09:59,829 --> 00:09:57,680

so

224

00:10:01,670 --> 00:09:59,839

and and i set the bar pretty har high

225

00:10:04,870 --> 00:10:01,680

for myself the last time i kind of doubt

226

00:10:07,110 --> 00:10:04,880

that i will beat that record

227

00:10:08,470 --> 00:10:07,120

a couple more questions

228

00:10:09,829 --> 00:10:08,480

i see we've just got a couple of minutes

229

00:10:11,110 --> 00:10:09,839

left but are you looking forward to

230

00:10:15,750 --> 00:10:11,120

talking to the students at the winter

231

00:10:19,509 --> 00:10:16,829

i am

232

00:10:21,590 --> 00:10:19,519

i saw that on the schedule it made the

233

00:10:23,190 --> 00:10:21,600

schedule for january i'm very much

234

00:10:25,430 --> 00:10:23,200

looking forward to it obviously we all

235

00:10:26,870 --> 00:10:25,440

have roots back to where we

236

00:10:29,110 --> 00:10:26,880

grew up

237

00:10:31,350 --> 00:10:29,120

and we have lifelong ties

238

00:10:33,269 --> 00:10:31,360

to those places in winter wisconsin of

239

00:10:35,190 --> 00:10:33,279

course is my hometown

240

00:10:38,389 --> 00:10:35,200

i've got lots of friends there the

241

00:10:40,389 --> 00:10:38,399

community is very close to my family and

242

00:10:42,310 --> 00:10:40,399

me and they're very supportive and of

243

00:10:44,389 --> 00:10:42,320

course i look forward to having this

244

00:10:47,190 --> 00:10:44,399

opportunity to chat not only with the

245

00:10:49,030 --> 00:10:47,200

students but the greater community there

246

00:10:51,750 --> 00:10:49,040

as they get to participate in a small

247

00:10:53,269 --> 00:10:51,760

way with the space station program

248

00:10:54,949 --> 00:10:53,279

and a chance to say

249

00:10:56,550 --> 00:10:54,959

hello and

250

00:11:01,350 --> 00:10:56,560

to the folks in northern wisconsin as

251  
00:11:05,590 --> 00:11:03,670  
oh you bet uh in fact i can do that

252  
00:11:07,350 --> 00:11:05,600  
right now hello to everybody in northern

253  
00:11:09,350 --> 00:11:07,360  
wisconsin i

254  
00:11:11,590 --> 00:11:09,360  
have enjoyed flying over there this

255  
00:11:13,269 --> 00:11:11,600  
flight as i did last flight as i said

256  
00:11:15,829 --> 00:11:13,279  
earlier it looks much different a little

257  
00:11:17,829 --> 00:11:15,839  
whiter looks a little colder

258  
00:11:19,430 --> 00:11:17,839  
i am in touch still with folks back

259  
00:11:21,750 --> 00:11:19,440  
there so i know a little bit about

260  
00:11:23,750 --> 00:11:21,760  
what's going on and as always i've i've

261  
00:11:26,230 --> 00:11:23,760  
really appreciated the support and

262  
00:11:28,389 --> 00:11:26,240  
encouragement and enthusiasm that comes

263  
00:11:29,829 --> 00:11:28,399

out of the northern wisconsin area

264

00:11:32,389 --> 00:11:29,839

the area i call

265

00:11:33,509 --> 00:11:32,399

home and where my roots are

266

00:11:35,990 --> 00:11:33,519

you have some great friends in the

267

00:11:40,710 --> 00:11:36,000

houston area too and it was a privilege

268

00:11:45,030 --> 00:11:42,870

we do have some great friends and course

269

00:11:46,949 --> 00:11:45,040

all of us are among uh friends right

270

00:11:49,110 --> 00:11:46,959

here and we have common friendships uh

271

00:11:50,470 --> 00:11:49,120

back home uh and those friendships are

272

00:11:53,110 --> 00:11:50,480

taking care of our families while

273

00:11:55,430 --> 00:11:53,120

they're while we're here so we're very

274

00:11:58,310 --> 00:11:55,440

appreciative of that and i was i'm very

275

00:12:00,710 --> 00:11:58,320

appreciative of you uh mike and jennifer

276

00:12:01,990 --> 00:12:00,720

also coming to support the the launch in

277

00:12:04,310 --> 00:12:02,000

kazakhstan i know there was some

278

00:12:06,230 --> 00:12:04,320

personal sacrifice in doing that it's

279

00:12:09,670 --> 00:12:06,240

not an easy trip to make and it was an

280

00:12:12,389 --> 00:12:09,680

honor to have you there to experience

281

00:12:14,550 --> 00:12:12,399

and witness that that very unique and

282

00:12:17,030 --> 00:12:14,560

special event

283

00:12:19,829 --> 00:12:17,040

it certainly was very unique and

284

00:12:21,829 --> 00:12:19,839

jennifer wishes you a happy new year i

285

00:12:24,150 --> 00:12:21,839

do too and thanks to

286

00:12:27,269 --> 00:12:24,160

engineers naguchi and kramer appreciate

287

00:12:27,279 --> 00:12:31,269

all right happy new year

288

00:12:35,190 --> 00:12:33,190

station this is houston acr that

289

00:12:37,350 --> 00:12:35,200

concludes the wisconsin public radio

290

00:12:58,710 --> 00:12:37,360

portion of the event please stand by for

291

00:13:02,310 --> 00:13:00,470

station this is houston acr we've

292

00:13:12,389 --> 00:13:02,320

reacquired please stand by for a voice

293

00:13:19,030 --> 00:13:14,710

station this is the washington post how

294

00:13:22,069 --> 00:13:20,870

washington post we hear you loud and

295

00:13:23,590 --> 00:13:22,079

clear and we welcome you to the

296

00:13:24,629 --> 00:13:23,600

international space station thanks for

297

00:13:26,150 --> 00:13:24,639

joining us

298

00:13:28,870 --> 00:13:26,160

hey thank you

299

00:13:32,710 --> 00:13:28,880

uh it's great to talk with you guys up

300

00:13:35,269 --> 00:13:32,720

there in space 200 it's expedition 22

301  
00:13:40,069 --> 00:13:35,279  
your 222 miles up from earth i

302  
00:13:43,430 --> 00:13:41,750  
we're riding right around there that's

303  
00:13:45,750 --> 00:13:43,440  
that's true

304  
00:13:48,470 --> 00:13:45,760  
and i'm speaking with the commander jeff

305  
00:13:50,389 --> 00:13:48,480  
williams uh retired army colonel

306  
00:13:53,670 --> 00:13:50,399  
pj creamer

307  
00:14:00,069 --> 00:13:53,680  
also of the army and suicide noguchi

308  
00:14:05,670 --> 00:14:02,550  
thank you very much as tj said we're

309  
00:14:07,990 --> 00:14:05,680  
honored to be with you today

310  
00:14:10,470 --> 00:14:08,000  
from the international space station

311  
00:14:12,150 --> 00:14:10,480  
uh first off happy holidays merry

312  
00:14:14,310 --> 00:14:12,160  
christmas you guys it seems like you've

313  
00:14:15,590 --> 00:14:14,320

been uh a little bit busy i know you

314

00:14:18,230 --> 00:14:15,600

spoke with

315

00:14:20,310 --> 00:14:18,240

the the troops in baghdad

316

00:14:23,030 --> 00:14:20,320

we saw a picture of you with your santa

317

00:14:27,910 --> 00:14:23,040

hats on it's the holidays now

318

00:14:31,670 --> 00:14:30,310

yeah we stay busy up here uh and even

319

00:14:33,430 --> 00:14:31,680

though our schedule's been a little bit

320

00:14:37,350 --> 00:14:33,440

lighter over the holiday period you

321

00:14:41,509 --> 00:14:39,430

yes uh let me just just start off here

322

00:14:44,389 --> 00:14:41,519

the way this works is we've put a notice

323

00:14:50,230 --> 00:14:44,399

up on our website and that you are going

324

00:14:54,470 --> 00:14:52,470

that have come in from various locations

325

00:14:56,150 --> 00:14:54,480

across the country

326

00:14:58,790 --> 00:14:56,160

so i'll proceed now

327

00:15:01,910 --> 00:14:58,800

to ask the first one uh and this one

328

00:15:05,189 --> 00:15:01,920

came via facebook from iowa

329

00:15:08,069 --> 00:15:05,199

and he says my son jacob who is eight

330

00:15:11,110 --> 00:15:08,079

years old wants to know who inspired

331

00:15:13,670 --> 00:15:11,120

each of you to be an astronaut

332

00:15:17,189 --> 00:15:13,680

can you start with uh that the commander

333

00:15:23,509 --> 00:15:18,949

that's a great question uh i was

334

00:15:25,910 --> 00:15:23,519

actually inspired uh by a variety of

335

00:15:27,829 --> 00:15:25,920

exposures i guess as a cadet at west

336

00:15:31,110 --> 00:15:27,839

point first i read the book the right

337

00:15:32,790 --> 00:15:31,120

stuff i had a professor who

338

00:15:35,189 --> 00:15:32,800

was

339

00:15:36,550 --> 00:15:35,199

on the way to experimental test pilot

340

00:15:39,110 --> 00:15:36,560

school and he was applying to be an

341

00:15:42,389 --> 00:15:39,120

astronaut at the same time that same

342

00:15:44,870 --> 00:15:42,399

year i met bob stewart a retired

343

00:15:46,710 --> 00:15:44,880

brigadier or major general bob stewart

344

00:15:49,829 --> 00:15:46,720

who was the first army astronaut that's

345

00:15:51,269 --> 00:15:49,839

when i realized that as an army officer

346

00:15:52,870 --> 00:15:51,279

there was a possibility of being an

347

00:15:55,749 --> 00:15:52,880

astronaut and i said it as a goal at

348

00:15:59,269 --> 00:15:55,759

that time that was in 1978

349

00:16:02,069 --> 00:15:59,279

and and pursued it from then on

350

00:16:03,749 --> 00:16:02,079

tj what about you this is t.j

351  
00:16:06,150 --> 00:16:03,759  
what about you

352  
00:16:07,590 --> 00:16:06,160  
my story is not a specific individual

353  
00:16:09,269 --> 00:16:07,600  
i'm old enough to have seen neil

354  
00:16:10,949 --> 00:16:09,279  
armstrong walk on the moon

355  
00:16:12,629 --> 00:16:10,959  
that was a bit of a spark and then

356  
00:16:14,710 --> 00:16:12,639  
through schools

357  
00:16:16,150 --> 00:16:14,720  
all levels of schooling the teachers and

358  
00:16:18,470 --> 00:16:16,160  
encouraged me in the math and sciences

359  
00:16:20,470 --> 00:16:18,480  
which was yet another spark

360  
00:16:21,910 --> 00:16:20,480  
and then when i got into the army he

361  
00:16:23,670 --> 00:16:21,920  
ended up flying which was yet another

362  
00:16:24,629 --> 00:16:23,680  
spark and everything kind of added up to

363  
00:16:27,350 --> 00:16:24,639

being

364

00:16:29,110 --> 00:16:27,360

um a marriage of all the interests and

365

00:16:31,189 --> 00:16:29,120

that's how that all happened when i

366

00:16:32,470 --> 00:16:31,199

became seven years old in the army the

367

00:16:33,910 --> 00:16:32,480

army said what else do you want to do

368

00:16:36,230 --> 00:16:33,920

and i said research and development so

369

00:16:38,629 --> 00:16:36,240

they sent me a magazine and the inside

370

00:16:40,870 --> 00:16:38,639

back cover was an article entitled

371

00:16:41,990 --> 00:16:40,880

typical profile of an army astronaut so

372

00:16:43,269 --> 00:16:42,000

all those

373

00:16:46,470 --> 00:16:43,279

sparks kind of

374

00:16:51,990 --> 00:16:46,480

roared to life in a flame

375

00:16:56,389 --> 00:16:54,629

yes sir uh you know growing up in japan

376

00:16:59,829 --> 00:16:56,399

i i didn't think about the becoming an

377

00:17:02,069 --> 00:16:59,839

astronaut until uh growing up and uh i

378

00:17:04,710 --> 00:17:02,079

just love rockets and the spacecraft i

379

00:17:07,750 --> 00:17:04,720

studied those stuff and tried to be an

380

00:17:09,350 --> 00:17:07,760

engineer and then the early 90s japanese

381

00:17:12,230 --> 00:17:09,360

astronauts started to fly in the space

382

00:17:14,549 --> 00:17:12,240

shuttle like dr mori or dr

383

00:17:16,069 --> 00:17:14,559

mukai or dr doi and those guys said

384

00:17:18,230 --> 00:17:16,079

those pioneers

385

00:17:19,669 --> 00:17:18,240

basically inspired me to follow their

386

00:17:21,669 --> 00:17:19,679

past

387

00:17:23,590 --> 00:17:21,679

very good thank you um now we're going

388

00:17:25,429 --> 00:17:23,600

to get to some sort of nitty-gritty kind

389

00:17:27,909 --> 00:17:25,439

of questions that people want to know

390

00:17:30,390 --> 00:17:27,919

from longview texas someone wants to

391

00:17:35,350 --> 00:17:30,400

know here how do you take showers in

392

00:17:39,669 --> 00:17:37,909

well we do not take uh showers in space

393

00:17:41,669 --> 00:17:39,679

sometimes we say we're going to go take

394

00:17:43,909 --> 00:17:41,679

a shower but really it's a sponge bath

395

00:17:47,029 --> 00:17:43,919

we use just a little bit of water wash

396

00:17:49,510 --> 00:17:47,039

cloths we have a rinseless shampoo

397

00:17:51,110 --> 00:17:49,520

and rinseless body wash that is what we

398

00:17:52,150 --> 00:17:51,120

call it so it doesn't take a lot of

399

00:17:55,110 --> 00:17:52,160

water

400

00:17:56,630 --> 00:17:55,120

and but it's very easy using those means

401  
00:17:58,470 --> 00:17:56,640  
to stay clean

402  
00:18:00,470 --> 00:17:58,480  
up here

403  
00:18:02,070 --> 00:18:00,480  
for a long period of time but i have to

404  
00:18:03,590 --> 00:18:02,080  
tell you one of the things i miss after

405  
00:18:07,510 --> 00:18:03,600  
six months being up here is just a

406  
00:18:14,549 --> 00:18:10,390  
yes and then when when do you come back

407  
00:18:18,870 --> 00:18:16,950  
uh max arrive my russian crewmate and i

408  
00:18:20,470 --> 00:18:18,880  
are scheduled to depart here in the

409  
00:18:22,310 --> 00:18:20,480  
middle of march

410  
00:18:25,350 --> 00:18:22,320  
and now we'll land in kazakhstan on the

411  
00:18:27,110 --> 00:18:25,360  
soyuz spacecraft that we arrived on

412  
00:18:29,510 --> 00:18:27,120  
i launched from

413  
00:18:31,029 --> 00:18:29,520

back in the end of september

414

00:18:33,590 --> 00:18:31,039

and do you all i mean this is the

415

00:18:36,150 --> 00:18:33,600

international space station so uh there

416

00:18:38,390 --> 00:18:36,160

are people from you know russia and

417

00:18:41,190 --> 00:18:38,400

other countries there how do you all

418

00:18:43,909 --> 00:18:41,200

uh mix and get along i mean our duties

419

00:18:44,630 --> 00:18:43,919

divided up do you socialize much or is

420

00:18:46,870 --> 00:18:44,640

it

421

00:18:51,110 --> 00:18:46,880

can you tell me how a typical day might

422

00:18:56,950 --> 00:18:53,909

my my best answer is the folks that are

423

00:18:58,549 --> 00:18:56,960

on board and we count literally as among

424

00:19:01,430 --> 00:18:58,559

our best friends

425

00:19:04,470 --> 00:19:01,440

um my russian crewmate oleg

426  
00:19:06,310 --> 00:19:04,480  
kotov along with suici we came up and we

427  
00:19:07,830 --> 00:19:06,320  
arrived just before christmas i think

428  
00:19:09,669 --> 00:19:07,840  
it's very fair to say that the sense of

429  
00:19:11,510 --> 00:19:09,679  
humor in both languages is wonderful

430  
00:19:13,190 --> 00:19:11,520  
outstanding to the point where

431  
00:19:15,990 --> 00:19:13,200  
you barely laugh occasionally and get

432  
00:19:17,750 --> 00:19:16,000  
tears in your eyes uh socialization we

433  
00:19:19,510 --> 00:19:17,760  
have lunches together in the america i'm

434  
00:19:20,870 --> 00:19:19,520  
sorry lunch together in the

435  
00:19:23,029 --> 00:19:20,880  
russian segment

436  
00:19:25,590 --> 00:19:23,039  
and in the evenings we have dinners over

437  
00:19:27,750 --> 00:19:25,600  
in the american segment so we make sure

438  
00:19:29,990 --> 00:19:27,760

that we interact with each other and and

439

00:19:31,909 --> 00:19:30,000

help each other out in both sides of the

440

00:19:33,990 --> 00:19:31,919

station that we can often a great

441

00:19:34,950 --> 00:19:34,000

camaraderie that exists

442

00:19:37,669 --> 00:19:34,960

uh

443

00:19:39,270 --> 00:19:37,679

soichi can you answer this question how

444

00:19:41,750 --> 00:19:39,280

much space

445

00:19:44,630 --> 00:19:41,760

literally is there up there

446

00:19:46,390 --> 00:19:44,640

for you to to work in i mean it looks

447

00:19:48,150 --> 00:19:46,400

like you're the three of you are

448

00:19:50,230 --> 00:19:48,160

floating right now

449

00:19:52,789 --> 00:19:50,240

and you're in a relatively confined

450

00:19:55,029 --> 00:19:52,799

space i mean are other parts

451  
00:19:59,270 --> 00:19:55,039  
of the space station that you work in

452  
00:20:02,070 --> 00:20:00,789  
yes actually uh we are pretty

453  
00:20:04,310 --> 00:20:02,080  
comfortable

454  
00:20:07,110 --> 00:20:04,320  
i don't think we're confined but uh

455  
00:20:08,950 --> 00:20:07,120  
during the the walk uh walk time i have

456  
00:20:12,070 --> 00:20:08,960  
a big mojo called the japanese space

457  
00:20:14,710 --> 00:20:12,080  
station this is the size of a school bus

458  
00:20:17,830 --> 00:20:14,720  
and lots of experiment running and just

459  
00:20:21,830 --> 00:20:17,840  
keep track of all the stuff and uh jeff

460  
00:20:24,630 --> 00:20:21,840  
is mainly keep track of u.s mojo and

461  
00:20:27,029 --> 00:20:24,640  
tj also have a responsibility on the

462  
00:20:29,350 --> 00:20:27,039  
columbus model which is a european uh

463  
00:20:33,110 --> 00:20:29,360

big science module so we have a pretty

464

00:20:35,909 --> 00:20:33,120

big cover to area to cover

465

00:20:37,510 --> 00:20:35,919

and how are you all uh adjusting to the

466

00:20:39,430 --> 00:20:37,520

zero gravity

467

00:20:44,310 --> 00:20:39,440

i mean it looks like right now you're

468

00:20:47,909 --> 00:20:45,909

oh yeah we're floating

469

00:20:49,750 --> 00:20:47,919

and the uh

470

00:20:51,590 --> 00:20:49,760

the the adjustment well there's a

471

00:20:53,270 --> 00:20:51,600

learning curve especially for new guys

472

00:20:55,350 --> 00:20:53,280

who go around crashing into things and

473

00:20:56,630 --> 00:20:55,360

or going too fast or something but

474

00:20:58,630 --> 00:20:56,640

the um

475

00:21:00,950 --> 00:20:58,640

the metabolics

476

00:21:02,950 --> 00:21:00,960

of of our adjustment are fairly well

477

00:21:05,270 --> 00:21:02,960

known we have fluid shifts that make us

478

00:21:06,789 --> 00:21:05,280

sometimes have moon faces we have bone

479

00:21:08,630 --> 00:21:06,799

loss and some muscle atrophy if we're

480

00:21:11,669 --> 00:21:08,640

not using them all the time

481

00:21:13,590 --> 00:21:11,679

but in terms of a day-to-day living it's

482

00:21:15,750 --> 00:21:13,600

wonderful to float it's a bit of a game

483

00:21:17,190 --> 00:21:15,760

to translate and hit your mark and hit

484

00:21:18,710 --> 00:21:17,200

the vector from that mark to the right

485

00:21:20,230 --> 00:21:18,720

place without crashing into people or

486

00:21:22,149 --> 00:21:20,240

other things

487

00:21:23,669 --> 00:21:22,159

the adjustment is is as predicted

488

00:21:25,990 --> 00:21:23,679

probably newbies have a little bit

489

00:21:28,070 --> 00:21:26,000

difficult time and we grow into it and

490

00:21:30,470 --> 00:21:28,080

we're working every day in order

491

00:21:32,630 --> 00:21:30,480

to establish countermeasures so we don't

492

00:21:34,470 --> 00:21:32,640

lose the the bone structure and the

493

00:21:36,149 --> 00:21:34,480

strength muscle strength that we need

494

00:21:38,310 --> 00:21:36,159

upon landing

495

00:21:40,950 --> 00:21:38,320

the president uh is going to launch his

496

00:21:42,390 --> 00:21:40,960

vision for nasa within weeks we hear

497

00:21:43,669 --> 00:21:42,400

reports say

498

00:21:44,470 --> 00:21:43,679

and uh

499

00:21:47,430 --> 00:21:44,480

to

500

00:21:50,789 --> 00:21:47,440

docket

501  
00:21:51,830 --> 00:21:50,799  
for the space station there

502  
00:21:53,750 --> 00:21:51,840  
um

503  
00:21:55,669 --> 00:21:53,760  
how do you see

504  
00:21:57,430 --> 00:21:55,679  
the future of the space station we

505  
00:22:02,549 --> 00:21:57,440  
understand there are five more missions

506  
00:22:05,990 --> 00:22:04,149  
well what you're talking about is five

507  
00:22:07,830 --> 00:22:06,000  
more assembly missions by the space

508  
00:22:10,149 --> 00:22:07,840  
shuttle to come visit the space station

509  
00:22:12,549 --> 00:22:10,159  
and complete its assembly and also

510  
00:22:13,750 --> 00:22:12,559  
outfit it for its full utilization

511  
00:22:16,230 --> 00:22:13,760  
supply it

512  
00:22:18,390 --> 00:22:16,240  
with spare parts etc

513  
00:22:21,350 --> 00:22:18,400

and those are scheduled to be completed

514

00:22:23,510 --> 00:22:21,360

this coming year 2010 and after which

515

00:22:25,430 --> 00:22:23,520

the shuttle will be retired

516

00:22:29,029 --> 00:22:25,440

so we can free up those resources for

517

00:22:30,630 --> 00:22:29,039

the next chapter of of space exploration

518

00:22:32,390 --> 00:22:30,640

but the space station will continue

519

00:22:34,390 --> 00:22:32,400

we're well we're just starting now the

520

00:22:35,510 --> 00:22:34,400

utilization program of the space station

521

00:22:37,750 --> 00:22:35,520

next year we'll get into full

522

00:22:38,870 --> 00:22:37,760

utilization this past year we got to a

523

00:22:40,870 --> 00:22:38,880

crew of six

524

00:22:42,549 --> 00:22:40,880

which was the intended final uh crew

525

00:22:44,950 --> 00:22:42,559

compliment right currently we're at a

526

00:22:48,070 --> 00:22:44,960

crew of five but will return to six

527

00:22:50,470 --> 00:22:48,080

uh in april uh and i expect the space

528

00:22:53,430 --> 00:22:50,480

station to continue to fly

529

00:22:55,350 --> 00:22:53,440

and be this research facility that is it

530

00:22:57,350 --> 00:22:55,360

is uh for

531

00:22:58,950 --> 00:22:57,360

anywhere from five to ten years is my

532

00:23:01,830 --> 00:22:58,960

personal guess we're already committed

533

00:23:03,190 --> 00:23:01,840

for the next five years to 2015 and i

534

00:23:04,950 --> 00:23:03,200

think it's very likely that it will

535

00:23:06,870 --> 00:23:04,960

continue to go

536

00:23:08,549 --> 00:23:06,880

after that as an international

537

00:23:11,510 --> 00:23:08,559

partnership and parallel of course we'll

538

00:23:14,070 --> 00:23:11,520

be developing the new uh

539

00:23:17,270 --> 00:23:14,080

chapter if you will that will follow

540

00:23:18,470 --> 00:23:17,280

alongside and beyond the space station

541

00:23:20,149 --> 00:23:18,480

and that

542

00:23:23,350 --> 00:23:20,159

that direction will come out shortly as

543

00:23:26,070 --> 00:23:23,360

you said from the president

544

00:23:31,590 --> 00:23:29,270

williams creamer and noguchi thank you

545

00:23:33,590 --> 00:23:31,600

very much for taking time with us down

546

00:23:35,830 --> 00:23:33,600

here on earth we wish you all the best

547

00:23:39,750 --> 00:23:35,840

up there happy new year continued