



1  
00:00:05,910 --> 00:00:02,790  
station this is jscpao how do you hear

2  
00:00:09,589 --> 00:00:08,470  
hey we have you loud and clear

3  
00:00:11,509 --> 00:00:09,599  
all right we'll go ahead and get it

4  
00:00:13,910 --> 00:00:11,519  
started off then

5  
00:00:16,310 --> 00:00:13,920  
uh good morning this is uh mark caro for

6  
00:00:18,150 --> 00:00:16,320  
aviation week i have a question for

7  
00:00:21,269 --> 00:00:18,160  
scott and kell

8  
00:00:23,509 --> 00:00:21,279  
could you give us an example of what you

9  
00:00:26,710 --> 00:00:23,519  
think the highest and best use of the

10  
00:00:29,029 --> 00:00:26,720  
space station is to enable future human

11  
00:00:33,510 --> 00:00:29,039  
deep space exploration thank you very

12  
00:00:37,830 --> 00:00:35,590  
you know we do a lot of experiments up

13  
00:00:40,709 --> 00:00:37,840

here but i think the uh the most

14

00:00:42,549 --> 00:00:40,719

important experiment is the

15

00:00:45,670 --> 00:00:42,559

you know the space station

16

00:00:47,910 --> 00:00:45,680

as a you know an orbiting vehicle that

17

00:00:49,750 --> 00:00:47,920

keeps humans alive in space for long

18

00:00:52,069 --> 00:00:49,760

periods of time we have a very uh

19

00:00:54,549 --> 00:00:52,079

sophisticated life support system here

20

00:00:57,110 --> 00:00:54,559

very sophisticated electrical system

21

00:00:59,510 --> 00:00:57,120

and we you know work with the ground and

22

00:01:02,790 --> 00:00:59,520

their uh you know ability to

23

00:01:04,630 --> 00:01:02,800

to uh you know maintain uh this

24

00:01:07,670 --> 00:01:04,640

environment using a certain level of

25

00:01:09,190 --> 00:01:07,680

discipline and procedures and operations

26

00:01:12,950 --> 00:01:09,200

that is

27

00:01:14,710 --> 00:01:12,960

gonna need to explore

28

00:01:16,230 --> 00:01:14,720

space deeper into space for longer

29

00:01:18,390 --> 00:01:16,240

periods of time so i think that's the

30

00:01:20,390 --> 00:01:18,400

best uh utilization and there's other

31

00:01:22,789 --> 00:01:20,400

benefits many other benefits from the

32

00:01:25,590 --> 00:01:22,799

space station as well but as far as

33

00:01:27,910 --> 00:01:25,600

you know long-term exploration goals

34

00:01:32,550 --> 00:01:27,920

that's the the most important aspect of

35

00:01:37,270 --> 00:01:34,630

and i absolutely agree with uh with

36

00:01:40,230 --> 00:01:37,280

scott i think the the space station

37

00:01:42,950 --> 00:01:40,240

really is a bridge it's a test bed for

38

00:01:45,190 --> 00:01:42,960

the technologies that we need to

39

00:01:48,710 --> 00:01:45,200

develop and understand in order to have

40

00:01:50,149 --> 00:01:48,720

a successful trip to mars

41

00:01:51,910 --> 00:01:50,159

of course this is a this is an

42

00:01:53,190 --> 00:01:51,920

international laboratory it's a place

43

00:01:55,990 --> 00:01:53,200

where we're conducting science and

44

00:01:58,310 --> 00:01:56,000

experiments over the time that kimia

45

00:02:00,389 --> 00:01:58,320

oleg and i are up here we'll see 240

46

00:02:02,709 --> 00:02:00,399

experiments and and i think scott and

47

00:02:05,429 --> 00:02:02,719

misha um during their one year in space

48

00:02:07,030 --> 00:02:05,439

we'll see over 400 experiments and and a

49

00:02:10,150 --> 00:02:07,040

lot of those are critical again to our

50

00:02:11,589 --> 00:02:10,160

understanding of how human physiology

51

00:02:13,589 --> 00:02:11,599

adapts to

52

00:02:16,150 --> 00:02:13,599

this microgravity environment and the

53

00:02:17,510 --> 00:02:16,160

things that we need to do to protect

54

00:02:20,830 --> 00:02:17,520

human health

55

00:02:24,229 --> 00:02:20,840

for a long trip to mars with respect to

56

00:02:25,670 --> 00:02:24,239

muscle bone immune system

57

00:02:32,070 --> 00:02:25,680

health and

58

00:02:36,630 --> 00:02:33,910

i happy anniversary it's clayton sandel

59

00:02:39,190 --> 00:02:36,640

at abc news i was curious on earth a car

60

00:02:41,110 --> 00:02:39,200

that's 15 years old shows its age in

61

00:02:43,350 --> 00:02:41,120

many ways and i'm curious

62

00:02:45,430 --> 00:02:43,360

about maintenance on the station how is

63

00:02:47,589 --> 00:02:45,440

the station holding up are you doing

64

00:02:50,229 --> 00:02:47,599

more maintenance uh in as part of your

65

00:02:51,750 --> 00:02:50,239

day than than you would like

66

00:02:53,509 --> 00:02:51,760

and then second being the crystal

67

00:02:58,470 --> 00:02:53,519

anniversary have you given each other

68

00:03:02,070 --> 00:02:59,270

well

69

00:03:03,910 --> 00:03:02,080

the last time i was here was

70

00:03:06,550 --> 00:03:03,920

about five years ago four or five years

71

00:03:08,229 --> 00:03:06,560

ago and it doesn't seem to me like i'm

72

00:03:10,790 --> 00:03:08,239

doing any more maintenance on the space

73

00:03:12,869 --> 00:03:10,800

station than we did then so and that was

74

00:03:15,030 --> 00:03:12,879

a you know basically a third of the

75

00:03:18,470 --> 00:03:15,040

the lifetime ago for for human

76  
00:03:20,309 --> 00:03:18,480  
occupation of the the space station um i

77  
00:03:22,630 --> 00:03:20,319  
thought when i got on board this time

78  
00:03:25,270 --> 00:03:22,640  
the material condition of the space

79  
00:03:27,509 --> 00:03:25,280  
station was very good um but you know

80  
00:03:29,030 --> 00:03:27,519  
obviously as things age you know over

81  
00:03:30,949 --> 00:03:29,040  
time we're going to have more

82  
00:03:32,630 --> 00:03:30,959  
maintenance requirements but you know

83  
00:03:34,149 --> 00:03:32,640  
the good news is we plan for that we

84  
00:03:36,149 --> 00:03:34,159  
have a lot of spares on board spare

85  
00:03:37,990 --> 00:03:36,159  
parts spare parts outside

86  
00:03:40,309 --> 00:03:38,000  
we have uh you know plans for for

87  
00:03:41,270 --> 00:03:40,319  
changing those things and you know

88  
00:03:43,750 --> 00:03:41,280

keeping

89

00:03:45,110 --> 00:03:43,760

this space station flying a long time

90

00:03:47,910 --> 00:03:45,120

into the future

91

00:03:50,070 --> 00:03:47,920

and as far as gifts now we haven't done

92

00:03:52,630 --> 00:03:50,080

that yet

93

00:03:54,949 --> 00:03:52,640

but it is a very important anniversary

94

00:03:58,949 --> 00:03:54,959

for this this incredible facility

95

00:04:03,350 --> 00:04:01,670

hi robert perlman with collectspace.com

96

00:04:05,509 --> 00:04:03,360

a couple days ago i had a chance to talk

97

00:04:08,070 --> 00:04:05,519

to expedition one commander bill shepard

98

00:04:10,949 --> 00:04:08,080

and asked him what he would ask you

99

00:04:12,630 --> 00:04:10,959

and so he suggested

100

00:04:15,830 --> 00:04:12,640

what have we learned from the space

101  
00:04:17,909 --> 00:04:15,840  
station that will be carried forward

102  
00:04:19,830 --> 00:04:17,919  
to change the way that we do space

103  
00:04:22,629 --> 00:04:19,840  
exploration forever more what will be

104  
00:04:24,710 --> 00:04:22,639  
the lesson or lessons that we've learned

105  
00:04:29,909 --> 00:04:24,720  
the past 15 years that has changed the

106  
00:04:34,310 --> 00:04:31,909  
well you know like like i was saying uh

107  
00:04:36,469 --> 00:04:34,320  
mark caro i think one of the important

108  
00:04:38,469 --> 00:04:36,479  
things about this space station

109  
00:04:40,830 --> 00:04:38,479  
is it's a

110  
00:04:42,710 --> 00:04:40,840  
you know a long-term presence in space

111  
00:04:44,629 --> 00:04:42,720  
that is

112  
00:04:46,870 --> 00:04:44,639  
you know requires life support systems

113  
00:04:48,710 --> 00:04:46,880

electrical systems but we've learned a

114

00:04:50,150 --> 00:04:48,720

lot from this uh

115

00:04:51,510 --> 00:04:50,160

you know this uh

116

00:04:54,469 --> 00:04:51,520

space station

117

00:04:55,590 --> 00:04:54,479

that uh is very very important to our

118

00:04:57,030 --> 00:04:55,600

our future

119

00:04:58,710 --> 00:04:57,040

exploration

120

00:05:01,270 --> 00:04:58,720

beyond our

121

00:05:16,230 --> 00:05:01,280

you know our local environment here

122

00:05:22,230 --> 00:05:18,230

station this is houston acr that

123

00:05:24,070 --> 00:05:22,240

concludes the jsc portion of the event

124

00:05:27,510 --> 00:05:24,080

please stand by for a voice check from

125

00:05:33,350 --> 00:05:29,510

station this is ksc pao how do you hear

126

00:05:39,749 --> 00:05:35,430

we have you loud and clear now with uh

127

00:05:43,430 --> 00:05:41,270

hello this is marcia dunn of the

128

00:05:45,430 --> 00:05:43,440

associated press scott for you and

129

00:05:47,990 --> 00:05:45,440

perhaps someone else

130

00:05:50,469 --> 00:05:48,000

what i remember about 15 years ago today

131

00:05:53,670 --> 00:05:50,479

is bill shepard and

132

00:05:56,230 --> 00:05:53,680

krikalov and uh gazenko um

133

00:05:58,390 --> 00:05:56,240

choosing the name alpha as the call sign

134

00:06:00,790 --> 00:05:58,400

and it didn't stick i mean do you wish

135

00:06:03,749 --> 00:06:00,800

it had do you wish there was

136

00:06:05,909 --> 00:06:03,759

a name for this 15 year old human

137

00:06:08,309 --> 00:06:05,919

occupancy up there that could perhaps

138

00:06:15,670 --> 00:06:08,319

get more people to

139

00:06:20,070 --> 00:06:17,830

yeah i could i was around then been

140

00:06:21,749 --> 00:06:20,080

around a long time you know when that

141

00:06:23,590 --> 00:06:21,759

was going on

142

00:06:25,110 --> 00:06:23,600

i kind of thought felt like the the

143

00:06:26,629 --> 00:06:25,120

space station should have a name but

144

00:06:28,150 --> 00:06:26,639

there was never anything we could we

145

00:06:31,189 --> 00:06:28,160

could agree on between all the

146

00:06:33,430 --> 00:06:31,199

international partners as i remember it

147

00:06:35,830 --> 00:06:33,440

now you know it's the space station to

148

00:06:38,390 --> 00:06:35,840

me and i think it's a great name and i

149

00:06:41,029 --> 00:06:38,400

think uh you know the name international

150

00:06:43,749 --> 00:06:41,039

space station really represents uh

151

00:06:46,469 --> 00:06:43,759

what it is so in in some ways maybe it's

152

00:06:48,870 --> 00:06:46,479

a better name than something like

153

00:06:50,710 --> 00:06:48,880

i think you know alpha is what uh

154

00:06:52,309 --> 00:06:50,720

what you mentioned and what we've

155

00:06:57,589 --> 00:06:52,319

thought about calling it back then that

156

00:07:02,629 --> 00:07:00,390

uh hi bill harwood cbs news um i just

157

00:07:04,870 --> 00:07:02,639

want to follow up a little bit on on

158

00:07:07,270 --> 00:07:04,880

what you just said uh mark scott a few

159

00:07:09,270 --> 00:07:07,280

minutes ago to mark caro i'm trying to

160

00:07:10,950 --> 00:07:09,280

understand how to view the value of the

161

00:07:12,629 --> 00:07:10,960

station in terms of

162

00:07:14,629 --> 00:07:12,639

you know it was ostensibly built for

163

00:07:16,230 --> 00:07:14,639

science obviously but it's but just

164

00:07:18,710 --> 00:07:16,240

building it was a huge achievement

165

00:07:20,870 --> 00:07:18,720

internationally um how do you assess the

166

00:07:22,710 --> 00:07:20,880

relative ranks of you know the reasons

167

00:07:24,790 --> 00:07:22,720

that went into the station which one is

168

00:07:26,629 --> 00:07:24,800

the is it exploration now that you see

169

00:07:28,790 --> 00:07:26,639

is the most important justification or

170

00:07:31,430 --> 00:07:28,800

is it some combination of all of those

171

00:07:37,270 --> 00:07:31,440

things that that justifies this this

172

00:07:42,870 --> 00:07:39,670

you know for me personally i think it's

173

00:07:43,830 --> 00:07:42,880

it's hard to to say one is is more

174

00:07:45,510 --> 00:07:43,840

important

175

00:07:47,749 --> 00:07:45,520

than the other you know we do a lot of

176

00:07:49,189 --> 00:07:47,759

science um here

177

00:07:50,869 --> 00:07:49,199

while i'm here they're going to be 400

178

00:07:53,670 --> 00:07:50,879

different science experiments so it's

179

00:07:55,430 --> 00:07:53,680

you know it's clearly a a a orbiting

180

00:07:58,150 --> 00:07:55,440

laboratory a world-class orbiting

181

00:08:00,150 --> 00:07:58,160

laboratory at that

182

00:08:02,150 --> 00:08:00,160

you know there's the exploration

183

00:08:04,309 --> 00:08:02,160

uh goals and the things we need to

184

00:08:06,469 --> 00:08:04,319

understand uh

185

00:08:08,390 --> 00:08:06,479

living in low earth orbit that will you

186

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

know enhance our capability to to

187

00:08:11,990 --> 00:08:10,160

explore further out into the solar

188

00:08:14,950 --> 00:08:12,000

system and then there's the

189

00:08:16,950 --> 00:08:14,960

international aspect and you know that

190

00:08:19,189 --> 00:08:16,960

is very important that kind of what you

191

00:08:21,110 --> 00:08:19,199

know has really held this partnership

192

00:08:24,309 --> 00:08:21,120

together i think through some very

193

00:08:26,710 --> 00:08:24,319

trying times uh post columbia and you

194

00:08:28,070 --> 00:08:26,720

know with you know budget challenges and

195

00:08:30,309 --> 00:08:28,080

things like that i think the

196

00:08:32,070 --> 00:08:30,319

international partnership is is kind of

197

00:08:34,709 --> 00:08:32,080

the glue that binds this

198

00:08:36,790 --> 00:08:34,719

this program together so i think for me

199

00:08:38,550 --> 00:08:36,800

personally it's just hard to weigh one

200

00:08:40,469 --> 00:08:38,560

over the other i think they're all very

201

00:08:41,829 --> 00:08:40,479

important and it's uh

202

00:08:43,269 --> 00:08:41,839

you know this

203

00:08:45,110 --> 00:08:43,279

i think we're very lucky to have this

204

00:08:46,710 --> 00:08:45,120

space station in this program and to be

205

00:08:51,430 --> 00:08:46,720

able to learn the things we're learning

206

00:08:54,550 --> 00:08:53,430

good morning james dean with florida

207

00:08:56,630 --> 00:08:54,560

today

208

00:08:58,870 --> 00:08:56,640

captain kelly looking ahead 15 years

209

00:09:00,870 --> 00:08:58,880

perhaps do you envision one or more

210

00:09:03,110 --> 00:09:00,880

commercial stations continuing the work

211

00:09:04,870 --> 00:09:03,120

that iss is doing or do you think

212

00:09:06,230 --> 00:09:04,880

sustaining commercial stations the way

213

00:09:13,990 --> 00:09:06,240

you have this one might prove more

214

00:09:18,070 --> 00:09:15,829

you know to build a commercial space

215

00:09:20,150 --> 00:09:18,080

station like this space station you know

216

00:09:21,590 --> 00:09:20,160

and the cost involved will you know

217

00:09:23,030 --> 00:09:21,600

obviously you know it's gonna be really

218

00:09:25,030 --> 00:09:23,040

expensive but

219

00:09:26,949 --> 00:09:25,040

and and um i wouldn't say it's not

220

00:09:28,550 --> 00:09:26,959

possible but uh

221

00:09:30,310 --> 00:09:28,560

you know if someone

222

00:09:33,030 --> 00:09:30,320

wanted to build something like this and

223

00:09:35,990 --> 00:09:33,040

had the money and uh you know had the

224

00:09:37,590 --> 00:09:36,000

the reason behind it i think nasa and

225

00:09:39,590 --> 00:09:37,600

our international partners have proved

226

00:09:41,910 --> 00:09:39,600

that it's very doable and to keep it

227

00:09:44,230 --> 00:09:41,920

flying for long periods of time what i

228

00:09:46,550 --> 00:09:44,240

would envision that's you know probably

229

00:09:49,829 --> 00:09:46,560

the more likely cases is you know a

230

00:09:52,230 --> 00:09:49,839

smaller space station more uh maybe more

231

00:09:54,710 --> 00:09:52,240

focused on uh you know

232

00:09:55,750 --> 00:09:54,720

certain certain you know more focused

233

00:09:56,870 --> 00:09:55,760

goals

234

00:09:59,190 --> 00:09:56,880

um

235

00:10:01,670 --> 00:09:59,200

and it's something that i would really

236

00:10:04,230 --> 00:10:01,680

you know love to see someday it's be be

237

00:10:05,190 --> 00:10:04,240

fantastic to have researchers maybe you

238

00:10:11,190 --> 00:10:05,200

know

239

00:10:12,790 --> 00:10:11,200

different people be able to go to the

240

00:10:14,630 --> 00:10:12,800

space station and do their research and

241

00:10:17,110 --> 00:10:14,640

also for people to go

242

00:10:19,509 --> 00:10:17,120

go there just to experience uh you know

243

00:10:21,190 --> 00:10:19,519

the majesty of space and and looking out

244

00:10:23,990 --> 00:10:21,200

at the earth and the you know the

245

00:10:32,069 --> 00:10:24,000

privilege you know we have up here to do

246

00:10:36,790 --> 00:10:34,150

station this is houston acr that

247

00:10:38,630 --> 00:10:36,800

concludes the nasa portion of the event

248

00:11:13,030 --> 00:10:38,640

please stand by for a voice check from

249

00:11:18,710 --> 00:11:14,949

dear friends we're glad to greet you

250

00:11:23,190 --> 00:11:20,790

and other colleagues

251  
00:11:27,030 --> 00:11:23,200  
that are present here to celebrate this

252  
00:11:31,430 --> 00:11:27,040  
great date the 15th anniversary

253  
00:11:34,310 --> 00:11:31,440  
of piloted crews arriving to the iss

254  
00:11:37,030 --> 00:11:34,320  
the international space station

255  
00:11:39,750 --> 00:11:37,040  
of course these days are not

256  
00:11:42,949 --> 00:11:39,760  
very happy in russia probably know about

257  
00:11:43,670 --> 00:11:42,959  
it but still life goes on

258  
00:11:45,430 --> 00:11:43,680  
and

259  
00:11:46,230 --> 00:11:45,440  
the fact that

260  
00:11:52,470 --> 00:11:46,240  
you

261  
00:11:56,389 --> 00:11:52,480  
strengthens our spirit and our faith in

262  
00:11:58,389 --> 00:11:56,399  
that everything can be overcome and can

263  
00:11:59,990 --> 00:11:58,399

great results can be achieved

264

00:12:03,350 --> 00:12:00,000

thank you for this

265

00:12:04,790 --> 00:12:03,360

and we will pass on to our questions the

266

00:12:07,750 --> 00:12:04,800

first question

267

00:12:10,470 --> 00:12:07,760

is uh from others cosmos television

268

00:12:12,710 --> 00:12:10,480

studio please go ahead

269

00:12:15,430 --> 00:12:12,720

there are 30 minutes of fashion hello

270

00:12:18,629 --> 00:12:15,440

this is sasha delete

271

00:12:21,990 --> 00:12:18,639

congratulations on the 15th anniversary

272

00:12:24,470 --> 00:12:22,000

for many people 15 years may seem like a

273

00:12:27,110 --> 00:12:24,480

great time frame

274

00:12:29,670 --> 00:12:27,120

but you are still there

275

00:12:30,949 --> 00:12:29,680

and you keep up the work around the

276

00:12:33,590 --> 00:12:30,959

station

277

00:12:36,949 --> 00:12:33,600

and we'd like to ask you what projects

278

00:12:40,470 --> 00:12:36,959

on keeping the station up to date

279

00:12:42,150 --> 00:12:40,480

are maintain so that the station stays

280

00:12:46,790 --> 00:12:42,160

in service for many years ahead thank

281

00:12:50,629 --> 00:12:47,829

experience we have quite a lot of

282

00:12:53,829 --> 00:12:50,639

experiments scientific experiments

283

00:12:55,030 --> 00:12:53,839

and other programs and experiments and

284

00:12:57,750 --> 00:12:55,040

projects

285

00:13:01,829 --> 00:12:57,760

whose objective is to study and to

286

00:13:04,310 --> 00:13:01,839

maintain the resources of the station

287

00:13:06,470 --> 00:13:04,320

for instance we performed

288

00:13:10,069 --> 00:13:06,480

similar work on uh

289

00:13:12,550 --> 00:13:10,079

continuing the life resource of the

290

00:13:15,190 --> 00:13:12,560

thermal system we have special center

291

00:13:18,310 --> 00:13:15,200

sensors in the different modules of this

292

00:13:21,350 --> 00:13:18,320

station say the thread environment

293

00:13:23,670 --> 00:13:21,360

program that studies all the micro

294

00:13:25,829 --> 00:13:23,680

accelerations that impact the structure

295

00:13:28,629 --> 00:13:25,839

of the station that is to say that the

296

00:13:30,710 --> 00:13:28,639

specialists on the ground use all the

297

00:13:32,550 --> 00:13:30,720

means they have at their disposal

298

00:13:36,069 --> 00:13:32,560

to study the current condition of the

299

00:13:37,910 --> 00:13:36,079

space station and to see how this

300

00:13:40,310 --> 00:13:37,920

condition can be maintained for the

301  
00:13:41,590 --> 00:13:40,320  
future and to

302  
00:13:50,389 --> 00:13:41,600  
prolong this

303  
00:13:54,870 --> 00:13:51,829  
thank you very much

304  
00:13:57,030 --> 00:13:54,880  
our next question is from the chinese

305  
00:13:59,189 --> 00:13:57,040  
television company

306  
00:14:16,069 --> 00:13:59,199  
please go ahead everyone

307  
00:14:19,590 --> 00:14:17,590  
and i'd like to continue in russia

308  
00:14:22,790 --> 00:14:19,600  
because we are in russia

309  
00:14:25,829 --> 00:14:22,800  
and uh the questions that i have

310  
00:14:29,430 --> 00:14:25,839  
to everybody would be willing to answer

311  
00:14:33,670 --> 00:14:31,509  
how what do you see

312  
00:14:38,550 --> 00:14:33,680  
on the planet earth from space can you

313  
00:14:45,269 --> 00:14:40,949

china can be seen very well especially

314

00:14:49,189 --> 00:14:46,550

and when

315

00:14:50,550 --> 00:14:49,199

weather is fine we can always recognize

316

00:14:53,590 --> 00:14:50,560

this country

317

00:14:55,430 --> 00:14:53,600

unfortunately the great wall of china

318

00:15:11,430 --> 00:14:55,440

was not seen by us

319

00:15:16,150 --> 00:15:12,470

good roads

320

00:15:17,829 --> 00:15:16,160

and this is coralie of uh tv

321

00:15:19,590 --> 00:15:17,839

good evening

322

00:15:21,990 --> 00:15:19,600

my name is

323

00:15:24,389 --> 00:15:22,000

this is uh coral of television michael

324

00:15:27,430 --> 00:15:24,399

barissa which is a question for you

325

00:15:28,710 --> 00:15:27,440

and i'd like to go back slightly to your

326

00:15:31,350 --> 00:15:28,720

space work

327

00:15:33,350 --> 00:15:31,360

that you had uh accomplished with

328

00:15:36,230 --> 00:15:33,360

gennady paddle cam

329

00:15:38,310 --> 00:15:36,240

what exactly could you compare it to

330

00:15:39,590 --> 00:15:38,320

what uh

331

00:15:42,310 --> 00:15:39,600

a human

332

00:15:43,829 --> 00:15:42,320

is experiencing when in outer space

333

00:15:45,269 --> 00:15:43,839

because the majority of us will not

334

00:15:46,710 --> 00:15:45,279

experience it

335

00:15:49,749 --> 00:15:46,720

themselves

336

00:15:52,710 --> 00:15:49,759

and what would you say about this suit

337

00:15:59,189 --> 00:15:52,720

and the tools that you used when

338

00:16:02,389 --> 00:16:00,629

this is not the first place to walk

339

00:16:04,870 --> 00:16:02,399

forward this is number two of course

340

00:16:08,389 --> 00:16:04,880

it's not that much that many as compared

341

00:16:10,069 --> 00:16:08,399

to other cosmonauts

342

00:16:12,150 --> 00:16:10,079

and of course i was

343

00:16:14,550 --> 00:16:12,160

a bit calmer the second time i didn't

344

00:16:16,150 --> 00:16:14,560

have that many emotions as during my

345

00:16:18,150 --> 00:16:16,160

first spacewalk

346

00:16:20,629 --> 00:16:18,160

but what i can compare it to i can

347

00:16:23,189 --> 00:16:20,639

probably compare it to a parachute jump

348

00:16:26,230 --> 00:16:23,199

when you are approaching the hatch and

349

00:16:27,670 --> 00:16:26,240

just one step is left to

350

00:16:29,590 --> 00:16:27,680

go down

351

00:16:33,430 --> 00:16:29,600

into the abyss so this is just a

352

00:16:34,790 --> 00:16:33,440

comparison and i'm sorry fred

353

00:16:37,269 --> 00:16:34,800

it does remind me of a parachute

354

00:16:39,990 --> 00:16:37,279

apparatus

355

00:16:45,430 --> 00:16:42,389

you can't really fall down keep falling

356

00:16:47,509 --> 00:16:45,440

down for five or seven

357

00:16:49,670 --> 00:16:47,519

hours that it takes to perform a space

358

00:16:51,670 --> 00:16:49,680

walk so the emotions go into the

359

00:16:56,230 --> 00:16:51,680

background and you are focused on the

360

00:17:00,629 --> 00:16:58,870

now i'm being prompted as for the space

361

00:17:06,870 --> 00:17:00,639

of suit

362

00:17:10,230 --> 00:17:07,669

we

363

00:17:12,390 --> 00:17:10,240

do not only use russian tools also use

364

00:17:14,549 --> 00:17:12,400

our partners tools

365

00:17:18,230 --> 00:17:14,559

and i would say that all of the tools

366

00:17:20,949 --> 00:17:18,240

for the space walk are excellent

367

00:17:26,150 --> 00:17:20,959

five by five very comfortable

368

00:17:29,750 --> 00:17:27,909

thank you very much

369

00:17:34,470 --> 00:17:29,760

this is

370

00:17:39,190 --> 00:17:37,110

to congratulate you further on but uh

371

00:17:40,070 --> 00:17:39,200

there is one more holiday in two days

372

00:17:41,510 --> 00:17:40,080

time

373

00:17:43,270 --> 00:17:41,520

this will be the

374

00:17:45,669 --> 00:17:43,280

day of

375

00:17:47,909 --> 00:17:45,679

the unity of the peoples

376

00:17:49,990 --> 00:17:47,919

are going to celebrate it is it going to

377

00:17:52,310 --> 00:17:50,000

be a holiday for you and are you going

378

00:18:00,630 --> 00:17:52,320

to invite your colleagues from other

379

00:18:07,510 --> 00:18:04,630

yes the russian part of the iss will

380

00:18:09,110 --> 00:18:07,520

have a holiday our colleagues will be

381

00:18:10,789 --> 00:18:09,120

working but we'll probably gather

382

00:18:12,710 --> 00:18:10,799

together in the evening it's still a

383

00:18:14,470 --> 00:18:12,720

holiday nevertheless

384

00:18:16,390 --> 00:18:14,480

and i'd like to congratulate you on this

385

00:18:21,029 --> 00:18:16,400

approaching holiday

386

00:18:24,470 --> 00:18:22,710

thank you very much congratulations to

387

00:18:26,630 --> 00:18:24,480

you too

388

00:18:28,549 --> 00:18:26,640

i would like to tell you that we've had

389

00:18:30,870 --> 00:18:28,559

an interesting event today

390

00:18:34,150 --> 00:18:30,880

we had uh

391

00:18:36,070 --> 00:18:34,160

a straight link to the vostoj cosmodrome

392

00:18:38,549 --> 00:18:36,080

we discussed what was being done there

393

00:18:40,549 --> 00:18:38,559

because later on we are going to use

394

00:18:43,669 --> 00:18:40,559

versace to

395

00:18:46,870 --> 00:18:43,679

launch piloted vehicles and we hope that

396

00:18:48,230 --> 00:18:46,880

uh the machines there are not going to

397

00:18:50,710 --> 00:18:48,240

let us down

398

00:18:53,190 --> 00:18:50,720

and i'm going to pass the mic to uh

399

00:18:55,430 --> 00:18:53,200

katya

400

00:18:57,430 --> 00:18:55,440

from the re-agency hello this is here

401  
00:18:59,110 --> 00:18:57,440  
katarina from the real nova st first of

402  
00:19:02,230 --> 00:18:59,120  
all congratulations on the 15th

403  
00:19:03,909 --> 00:19:02,240  
anniversary of the iss and

404  
00:19:06,150 --> 00:19:03,919  
thank you to

405  
00:19:08,630 --> 00:19:06,160  
mikhail borisevic for the interview it's

406  
00:19:11,110 --> 00:19:08,640  
a great interview thanks a lot

407  
00:19:13,750 --> 00:19:11,120  
a question for you there has been

408  
00:19:16,630 --> 00:19:13,760  
a news item there's probably a question

409  
00:19:18,470 --> 00:19:16,640  
for oleg kononenko

410  
00:19:20,870 --> 00:19:18,480  
there is a piece of information that

411  
00:19:21,909 --> 00:19:20,880  
your crew are going to land 11 days

412  
00:19:24,230 --> 00:19:21,919  
earlier

413  
00:19:25,909 --> 00:19:24,240

is this true

414

00:19:29,430 --> 00:19:25,919

the students are going to spend slightly

415

00:19:29,440 --> 00:19:33,909

yes

416

00:19:37,909 --> 00:19:36,070

from vladimir alexavic who is the lead

417

00:19:41,110 --> 00:19:37,919

flight director with

418

00:19:44,230 --> 00:19:41,120

the dates of the subsequent

419

00:19:46,710 --> 00:19:44,240

cargo vehicles and our landing

420

00:19:48,950 --> 00:19:46,720

um i can't really say anything once it's

421

00:19:51,510 --> 00:19:48,960

approved we'll see what it has

422

00:19:53,750 --> 00:19:51,520

but we'll probably have to go down a bit

423

00:20:03,510 --> 00:19:53,760

earlier but so what i have in the

424

00:20:08,549 --> 00:20:05,909

let's continue we have one more question

425

00:20:11,909 --> 00:20:08,559

from the chinese television

426

00:20:11,919 --> 00:20:16,710

hello colleagues

427

00:20:20,230 --> 00:20:17,909

could you

428

00:20:21,669 --> 00:20:20,240

send some new year greetings for the

429

00:20:28,789 --> 00:20:21,679

chinese people

430

00:20:28,799 --> 00:20:34,630

did you want to be cosmonauts when kids

431

00:20:38,630 --> 00:20:36,630

or was there something else later in

432

00:20:46,789 --> 00:20:38,640

life that prompted you to follow down

433

00:20:52,230 --> 00:20:49,510

would be happy to greet all the chinese

434

00:20:53,990 --> 00:20:52,240

people with the the new year when time

435

00:20:58,630 --> 00:20:54,000

comes

436

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

as for our decision to become cosmonauts

437

00:21:04,870 --> 00:21:00,960

i believe the decision was made a long

438

00:21:07,590 --> 00:21:04,880

long time ago we talked about this

439

00:21:11,590 --> 00:21:07,600

and this was something

440

00:21:15,110 --> 00:21:11,600

like a dream that we that all of us had

441

00:21:17,750 --> 00:21:15,120

when children when kids this topic has

442

00:21:21,270 --> 00:21:17,760

been raised multiple times

443

00:21:24,390 --> 00:21:21,280

i wouldn't say that our path was easy

444

00:21:25,669 --> 00:21:24,400

and fast it took us a long time to

445

00:21:28,230 --> 00:21:25,679

arrive

446

00:21:30,149 --> 00:21:28,240

to to fly for the first time but right

447

00:21:32,470 --> 00:21:30,159

now we're here part of the international

448

00:21:33,510 --> 00:21:32,480

crew and this is probably

449

00:21:37,350 --> 00:21:33,520

the

450

00:21:45,430 --> 00:21:39,909

culminating question again cosmos tv

451  
00:21:48,549 --> 00:21:47,830  
there is again a piece of information

452  
00:21:50,870 --> 00:21:48,559  
that

453  
00:21:54,070 --> 00:21:50,880  
the head of the nasa space agency

454  
00:21:57,990 --> 00:21:54,080  
charles bolden suggested putting forward

455  
00:21:59,110 --> 00:21:58,000  
the iss as a project not as a human

456  
00:22:01,590 --> 00:21:59,120  
entity

457  
00:22:02,710 --> 00:22:01,600  
for the nobel prize of

458  
00:22:04,470 --> 00:22:02,720  
peace

459  
00:22:06,789 --> 00:22:04,480  
do you think uh do you agree with that

460  
00:22:12,870 --> 00:22:06,799  
do you think this definitely unifies the

461  
00:22:15,350 --> 00:22:14,390  
this is somewhat of an unexpected

462  
00:22:17,830 --> 00:22:15,360  
question

463  
00:22:21,830 --> 00:22:17,840

i think he's uh right

464

00:22:24,390 --> 00:22:21,840

100 right of course a lot is being said

465

00:22:27,190 --> 00:22:24,400

about the fact that the iss is a perfect

466

00:22:29,590 --> 00:22:27,200

example of international cooperation of

467

00:22:30,870 --> 00:22:29,600

unification of efforts of

468

00:22:32,070 --> 00:22:30,880

different

469

00:22:35,029 --> 00:22:32,080

people

470

00:22:36,470 --> 00:22:35,039

a unity of unification of

471

00:22:37,590 --> 00:22:36,480

technologies

472

00:22:39,909 --> 00:22:37,600

science

473

00:22:41,110 --> 00:22:39,919

and whatnot but the main achievement in

474

00:22:44,310 --> 00:22:41,120

my opinion

475

00:22:46,630 --> 00:22:44,320

is that people on the ground sometimes

476

00:22:50,230 --> 00:22:46,640

fail to hear each other to see each

477

00:22:51,430 --> 00:22:50,240

other here in space this is impossible

478

00:22:53,669 --> 00:22:51,440

everyone

479

00:22:56,470 --> 00:22:53,679

is important here and the success of the

480

00:22:57,669 --> 00:22:56,480

program and sometimes even life depends

481

00:23:00,149 --> 00:22:57,679

on what

482

00:23:02,149 --> 00:23:00,159

each and every one of us does

483

00:23:05,190 --> 00:23:02,159

so this is a perfect example a very

484

00:23:07,590 --> 00:23:05,200

bright example of how cooperation

485

00:23:11,029 --> 00:23:07,600

can be achieved so i think we will

486

00:23:15,750 --> 00:23:13,590

station this is houston acr that

487

00:23:17,350 --> 00:23:15,760

concludes the mission control moscow

488

00:23:19,430 --> 00:23:17,360

portion of the event

489

00:23:29,110 --> 00:23:19,440

please stand by for a voice check from

490

00:23:46,789 --> 00:23:32,310

station this is jackson piero how do you

491

00:23:46,799 --> 00:23:59,029

we are ready to speak with you

492

00:24:04,070 --> 00:24:01,430

15th anniversary of a permanent human

493

00:24:07,110 --> 00:24:04,080

occupancy on iss so we would like to

494

00:24:09,590 --> 00:24:07,120

hear from you kimia about your

495

00:24:16,830 --> 00:24:09,600

impressions and then i'd like to hand

496

00:24:22,710 --> 00:24:19,909

okay so thank you to all of you for

497

00:24:26,230 --> 00:24:22,720

gathering at the midnight so this is the

498

00:24:30,549 --> 00:24:26,240

15th anniversary and it's been 15 years

499

00:24:34,230 --> 00:24:30,559

since human occupancy on iss and i i'm

500

00:24:36,630 --> 00:24:34,240

really happy i am here and honored at um

501  
00:24:37,430 --> 00:24:36,640  
to be here at such a timing

502  
00:24:40,630 --> 00:24:37,440  
and

503  
00:24:43,590 --> 00:24:40,640  
what is great about iss is that a lot of

504  
00:24:47,029 --> 00:24:43,600  
things are happening on earth but

505  
00:24:50,390 --> 00:24:47,039  
you know every country has its culture

506  
00:24:53,190 --> 00:24:50,400  
and technology and the countries respect

507  
00:24:56,470 --> 00:24:53,200  
each other and that's happening on iss

508  
00:24:59,590 --> 00:24:56,480  
and that's really wonderful two days ago

509  
00:25:03,590 --> 00:24:59,600  
i have now it marks 100 days since i

510  
00:25:04,470 --> 00:25:03,600  
came to space and on october november

511  
00:25:06,870 --> 00:25:04,480  
1st

512  
00:25:09,830 --> 00:25:06,880  
actually the total number of stay for

513  
00:25:11,830 --> 00:25:09,840

japanese astronauts came to 1 000 days

514

00:25:13,510 --> 00:25:11,840

and that's really wonderful

515

00:25:15,669 --> 00:25:13,520

japan is

516

00:25:17,990 --> 00:25:15,679

challenging and

517

00:25:19,830 --> 00:25:18,000

with its capabilities

518

00:25:23,190 --> 00:25:19,840

we are now

519

00:25:27,669 --> 00:25:23,200

we are respected by other countries on

520

00:25:29,990 --> 00:25:27,679

iss and we are really a great partner

521

00:25:32,390 --> 00:25:30,000

and everybody respects us with being a

522

00:25:35,510 --> 00:25:32,400

great partner that's a wonderful thing

523

00:25:39,750 --> 00:25:35,520

so on kibo experimental module

524

00:25:41,990 --> 00:25:39,760

we are doing like a high um

525

00:25:46,789 --> 00:25:42,000

quality

526  
00:25:50,070 --> 00:25:46,799  
protein and also small satellite release

527  
00:25:52,390 --> 00:25:50,080  
so we are doing various experiences

528  
00:25:55,990 --> 00:25:52,400  
and i hope that we can

529  
00:25:58,950 --> 00:25:56,000  
show great results and that it turns out

530  
00:26:01,029 --> 00:25:58,960  
as japan being a great partner

531  
00:26:03,029 --> 00:26:01,039  
so i will also

532  
00:26:04,549 --> 00:26:03,039  
keep on challenging

533  
00:26:07,110 --> 00:26:04,559  
and um

534  
00:26:11,350 --> 00:26:07,120  
i hope to hand down

535  
00:26:12,630 --> 00:26:11,360  
the the results to mr onishi who will be

536  
00:26:14,269 --> 00:26:12,640  
successful

537  
00:26:19,750 --> 00:26:14,279  
so this

538  
00:26:22,149 --> 00:26:19,760

tbs and so

539

00:26:24,390 --> 00:26:22,159

after 15 years what is the role that

540

00:26:27,190 --> 00:26:24,400

japan should play on iss

541

00:26:33,190 --> 00:26:27,200

and in what about your rest of this day

542

00:27:02,070 --> 00:26:51,350

on

543

00:27:03,590 --> 00:27:02,080

we always have to cherish the spirit and

544

00:27:05,190 --> 00:27:03,600

of um

545

00:27:07,909 --> 00:27:05,200

um consider

546

00:27:10,390 --> 00:27:07,919

consideration to others

547

00:27:13,510 --> 00:27:10,400

now i'm working with russians and the

548

00:27:15,590 --> 00:27:13,520

americans and i always like to

549

00:27:17,750 --> 00:27:15,600

serve as a bridge

550

00:27:21,669 --> 00:27:17,760

and

551  
00:27:26,230 --> 00:27:24,549  
so by playing such roles

552  
00:27:28,789 --> 00:27:26,240  
i would like to do my best in the rest

553  
00:27:30,789 --> 00:27:28,799  
of my stay

554  
00:27:32,870 --> 00:27:30,799  
and i would like to make people feel

555  
00:27:34,710 --> 00:27:32,880  
that it was really good

556  
00:27:37,110 --> 00:27:34,720  
to have the japanese people on the

557  
00:27:38,950 --> 00:27:37,120  
international space station do you think

558  
00:27:41,669 --> 00:27:38,960  
that there is a very unique culture

559  
00:27:42,549 --> 00:27:41,679  
being fostered over the past 15 years on

560  
00:27:48,470 --> 00:27:42,559  
the

561  
00:27:53,909 --> 00:27:51,909  
well yes um yes i think that uni culture

562  
00:27:56,149 --> 00:27:53,919  
is being created on the international

563  
00:27:59,029 --> 00:27:56,159

space station what is great about

564

00:28:00,789 --> 00:27:59,039

the iss is that well although the

565

00:28:02,470 --> 00:28:00,799

astronauts are from the different

566

00:28:06,389 --> 00:28:02,480

backgrounds from different countries but

567

00:28:08,789 --> 00:28:06,399

we respect within each other

568

00:28:11,909 --> 00:28:08,799

in working and collaboration

569

00:28:15,029 --> 00:28:11,919

if such a unique culture

570

00:28:17,909 --> 00:28:15,039

is practiced on the earth the earth will

571

00:28:19,750 --> 00:28:17,919

be a much better place

572

00:28:21,909 --> 00:28:19,760

the third question

573

00:28:24,630 --> 00:28:21,919

on the 15th anniversary what kind of

574

00:28:43,110 --> 00:28:24,640

celebration are you going to have

575

00:28:47,430 --> 00:28:45,350

look back upon the history

576

00:28:50,230 --> 00:28:47,440

over the past 15 years from our

577

00:28:54,230 --> 00:28:50,240

predecessors and also like to talk about

578

00:28:55,909 --> 00:28:54,240

the future while eating together

579

00:28:59,750 --> 00:28:55,919

station this is houston acr that

580

00:29:01,590 --> 00:28:59,760

concludes the event thank you

581

00:29:03,750 --> 00:29:01,600

thank you to all participants stationed