



1  
00:00:09,049 --> 00:00:04,070  
all right gentlemen looking good we're

2  
00:00:12,680 --> 00:00:09,059  
ready to stop the van how about you we

3  
00:00:15,049 --> 00:00:12,690  
are ready all right kpr ktv this is

4  
00:00:16,910 --> 00:00:15,059  
Mission Control Houston you can now call

5  
00:00:19,580 --> 00:00:16,920  
station for a voice check thanks but

6  
00:00:24,890 --> 00:00:19,590  
station this is Katie RK Ted Oberg how

7  
00:00:26,300 --> 00:00:24,900  
do you hear me Ted we have you loud and

8  
00:00:28,970 --> 00:00:26,310  
clear welcome aboard the International

9  
00:00:32,569 --> 00:00:28,980  
Space Station always a pleasure to talk

10  
00:00:34,790 --> 00:00:32,579  
to you guys I'm curious as a as an

11  
00:00:37,760 --> 00:00:34,800  
opener maybe a softball is it is it

12  
00:00:43,100 --> 00:00:37,770  
lonely now without the shuttle crew and

13  
00:00:48,049 --> 00:00:43,110

after watching him leave I'll give I'll

14

00:00:50,779 --> 00:00:48,059

give the mic the softball yet Ted it

15

00:00:52,520 --> 00:00:50,789

certainly got a lot quieter they were

16

00:00:54,439 --> 00:00:52,530

they were up here they were a crew of

17

00:00:57,110 --> 00:00:54,449

four but it really seemed like a crew of

18

00:00:59,869 --> 00:00:57,120

eight to ten because they worked like

19

00:01:01,369 --> 00:00:59,879

that and it was it was gangbusters here

20

00:01:03,290 --> 00:01:01,379

for the entire time they were here it

21

00:01:06,080 --> 00:01:03,300

was great having them here and it did

22

00:01:09,670 --> 00:01:06,090

get a lot quieter and and we have a

23

00:01:12,170 --> 00:01:09,680

little less room after they left I

24

00:01:13,399 --> 00:01:12,180

assume all stuff you need though right I

25

00:01:18,140 --> 00:01:13,409

mean you haven't eaten all that food

26  
00:01:19,670 --> 00:01:18,150  
have you I that I believe right now they

27  
00:01:21,499 --> 00:01:19,680  
tell us we have about a year's worth of

28  
00:01:24,320 --> 00:01:21,509  
food on board so no it'll take us awhile

29  
00:01:25,910 --> 00:01:24,330  
to gnaw through that well let me ask you

30  
00:01:27,950 --> 00:01:25,920  
a question you excited about the

31  
00:01:30,200 --> 00:01:27,960  
prospect of these commercial ships

32  
00:01:32,030 --> 00:01:30,210  
coming up towards the end of the year at

33  
00:01:38,270 --> 00:01:32,040  
all nervous about this new technology

34  
00:01:40,039 --> 00:01:38,280  
you know getting so close well new

35  
00:01:41,780 --> 00:01:40,049  
technology like this new ships are

36  
00:01:44,149 --> 00:01:41,790  
always exciting they really are i think

37  
00:01:46,190 --> 00:01:44,159  
Ron and I are both a little disappointed

38  
00:01:49,249 --> 00:01:46,200

that we won't be here to greet the first

39

00:01:50,990 --> 00:01:49,259

ones of the new generation of ships if

40

00:01:53,359 --> 00:01:51,000

you will so we're excited about the

41

00:01:55,310 --> 00:01:53,369

prospects there's a lot of people across

42

00:01:56,840 --> 00:01:55,320

the country you know with the different

43

00:01:59,780 --> 00:01:56,850

teams working really hard we're excited

44

00:02:01,700 --> 00:01:59,790

about it I wouldn't say nervous is a

45

00:02:03,499 --> 00:02:01,710

player but you know you need to pay

46

00:02:04,969 --> 00:02:03,509

close attention to the details and make

47

00:02:06,830 --> 00:02:04,979

sure they're ready to come aboard

48

00:02:08,510 --> 00:02:06,840

because it's it's really tough that's

49

00:02:10,100 --> 00:02:08,520

tricky business to come up close and

50

00:02:11,449 --> 00:02:10,110

hover and then reach out and grab it

51  
00:02:12,310 --> 00:02:11,459  
with the arm you have to get it all

52  
00:02:15,730 --> 00:02:12,320  
right

53  
00:02:22,790 --> 00:02:15,740  
and and are you confident that

54  
00:02:25,100 --> 00:02:22,800  
commercial crews can do that well the

55  
00:02:26,930 --> 00:02:25,110  
first step is commercial cargo ships and

56  
00:02:28,580 --> 00:02:26,940  
that that's on the on the near term

57  
00:02:31,070 --> 00:02:28,590  
horizon we're going to see the first of

58  
00:02:33,710 --> 00:02:31,080  
those arrive here within about five

59  
00:02:36,590 --> 00:02:33,720  
months or so schedules you know I

60  
00:02:38,210 --> 00:02:36,600  
schedule scope and for the cargo ships

61  
00:02:42,320 --> 00:02:38,220  
they'll come up and do very similar to

62  
00:02:44,090 --> 00:02:42,330  
what the Japanese HTV did come up and

63  
00:02:46,250 --> 00:02:44,100

basically hover underneath the space

64

00:02:47,810 --> 00:02:46,260

station where we'll reach out and grab

65

00:02:50,930 --> 00:02:47,820

it with the arm and we've done that

66

00:02:52,700 --> 00:02:50,940

twice with the Japanese cargo ship and

67

00:02:54,380 --> 00:02:52,710

so the the new ones that are coming up

68

00:02:55,790 --> 00:02:54,390

we'll use that same technique at first

69

00:02:58,100 --> 00:02:55,800

that's different than bringing up a

70

00:03:01,220 --> 00:02:58,110

crude vehicle with people on board and

71

00:03:02,660 --> 00:03:01,230

accomplishing a docking let me switch

72

00:03:05,330 --> 00:03:02,670

gears a little bit I think one of the

73

00:03:07,690 --> 00:03:05,340

things that we talked about as the

74

00:03:10,070 --> 00:03:07,700

shuttles final fight was coming on is

75

00:03:12,560 --> 00:03:10,080

now that we turned all of our attention

76  
00:03:15,230 --> 00:03:12,570  
to the space station the number of hours

77  
00:03:19,130 --> 00:03:15,240  
that you guys spend do in science versus

78  
00:03:22,580 --> 00:03:19,140  
the number of hours doing tasks is maybe

79  
00:03:24,680 --> 00:03:22,590  
lopsided how how do you look at that and

80  
00:03:29,750 --> 00:03:24,690  
how can we get more time for you guys to

81  
00:03:31,760 --> 00:03:29,760  
do more science well i think it was

82  
00:03:32,990 --> 00:03:31,770  
lopsided when we had a crew of three and

83  
00:03:35,270 --> 00:03:33,000  
when we were right in the heart of the

84  
00:03:36,770 --> 00:03:35,280  
construction i mean most of the

85  
00:03:39,170 --> 00:03:36,780  
activities during that time period was

86  
00:03:40,460 --> 00:03:39,180  
building this amazing orbital research

87  
00:03:42,890 --> 00:03:40,470  
facility and that's what this is a

88  
00:03:46,190 --> 00:03:42,900

research facility and right now we were

89

00:03:47,390 --> 00:03:46,200

in the full utilization role and you

90

00:03:48,830 --> 00:03:47,400

know even though you know we've been

91

00:03:50,930 --> 00:03:48,840

building this place for the last 10

92

00:03:52,760 --> 00:03:50,940

years we still manage to conduct over

93

00:03:55,490 --> 00:03:52,770

600 experiments during that time and

94

00:03:57,290 --> 00:03:55,500

we've had some really good breakthroughs

95

00:03:59,540 --> 00:03:57,300

in the science that we've conducted up

96

00:04:01,340 --> 00:03:59,550

here we are doing a minimum of thirty

97

00:04:04,370 --> 00:04:01,350

five hours a week right now of science

98

00:04:08,210 --> 00:04:04,380

we're actually doing more than that but

99

00:04:10,640 --> 00:04:08,220

that's what we are set as a goal that we

100

00:04:13,040 --> 00:04:10,650

want to do at least that and I think

101  
00:04:14,600 --> 00:04:13,050  
we're far exceeding that we're going to

102  
00:04:18,110 --> 00:04:14,610  
continue to do that we're going to

103  
00:04:21,080 --> 00:04:18,120  
continue to reap the benefits of our

104  
00:04:22,940 --> 00:04:21,090  
labor up here of everybody's labor to

105  
00:04:24,710 --> 00:04:22,950  
build this place and we are going to see

106  
00:04:26,720 --> 00:04:24,720  
a return on investment and

107  
00:04:28,730 --> 00:04:26,730  
I think history is going to show that

108  
00:04:31,070 --> 00:04:28,740  
this place was an amazing investment

109  
00:04:34,550 --> 00:04:31,080  
because we are going to see vast

110  
00:04:35,960 --> 00:04:34,560  
improvements in life on Earth and vast

111  
00:04:37,730 --> 00:04:35,970  
improvements on our ability to explore

112  
00:04:40,280 --> 00:04:37,740  
the solar system because of the

113  
00:04:41,900 --> 00:04:40,290

discoveries that are going to be made

114

00:04:44,720 --> 00:04:41,910

possible from the research that's being

115

00:04:47,510 --> 00:04:44,730

conducted on board board but but I

116

00:04:50,780 --> 00:04:47,520

scientists yourselves is it is 36 hours

117

00:04:55,640 --> 00:04:50,790

enough is 70 hours enough I mean where

118

00:04:58,280 --> 00:04:55,650

should we were should that goal be yeah

119

00:05:00,530 --> 00:04:58,290

when I said 35 hours as a go that is

120

00:05:03,680 --> 00:05:00,540

crew time so there's a lot of

121

00:05:05,360 --> 00:05:03,690

experimentation that's going 24seven you

122

00:05:08,030 --> 00:05:05,370

know we might just flip a switch and get

123

00:05:10,610 --> 00:05:08,040

it started we might put some samples in

124

00:05:13,130 --> 00:05:10,620

and get it going but the but the science

125

00:05:15,050 --> 00:05:13,140

is going on all the time and a lot of

126

00:05:16,520 --> 00:05:15,060

these facilities and so we need to

127

00:05:19,430 --> 00:05:16,530

increase that we need to increase the

128

00:05:22,430 --> 00:05:19,440

utilization not all experiments need

129

00:05:24,260 --> 00:05:22,440

crew interaction those that do we're

130

00:05:26,300 --> 00:05:24,270

devoting at least 35 hours to right now

131

00:05:30,170 --> 00:05:26,310

and we want to devote as much time as we

132

00:05:32,840 --> 00:05:30,180

possibly can to that cool and let me

133

00:05:36,230 --> 00:05:32,850

switch gears again as we look at longer

134

00:05:41,120 --> 00:05:36,240

and longer flights in space either on

135

00:05:45,110 --> 00:05:41,130

ISS or to the moon or often and beyond

136

00:05:47,330 --> 00:05:45,120

to that to other options tell me about

137

00:05:49,760 --> 00:05:47,340

your health concerns what does NASA told

138

00:05:52,340 --> 00:05:49,770

you to be worried about or two or to

139

00:05:59,530 --> 00:05:52,350

monitor and what are the changes you

140

00:06:05,000 --> 00:06:02,870

now take that Ted I you know I have not

141

00:06:08,030 --> 00:06:05,010

personally noticed anything beyond the

142

00:06:10,430 --> 00:06:08,040

first the first adaptation then when you

143

00:06:12,170 --> 00:06:10,440

come up here the fluid shift causes in

144

00:06:14,270 --> 00:06:12,180

which is real common and you see that of

145

00:06:17,000 --> 00:06:14,280

course even on a short duration shuttle

146

00:06:18,469 --> 00:06:17,010

mission the fluid shift causes up

147

00:06:20,060 --> 00:06:18,479

basically a pressure in the head it's

148

00:06:22,700 --> 00:06:20,070

kind of like if you're hanging by your

149

00:06:24,710 --> 00:06:22,710

knees from a monkey monkey bars and the

150

00:06:27,170 --> 00:06:24,720

blood flows to your head in it and you

151

00:06:29,060 --> 00:06:27,180

get kind of a sinus headache that

152

00:06:31,580 --> 00:06:29,070

dissipates is your body adjust to those

153

00:06:33,620 --> 00:06:31,590

kind of things and they're all the body

154

00:06:37,020 --> 00:06:33,630

systems kind of adjust right now I feel

155

00:06:41,010 --> 00:06:37,030

you know just I feel no different

156

00:06:43,110 --> 00:06:41,020

the real test is in the details and we

157

00:06:45,870 --> 00:06:43,120

were tested a lot for the bone density

158

00:06:47,910 --> 00:06:45,880

and muscle density you know including I

159

00:06:50,220 --> 00:06:47,920

had muscle biopsies before I flew so

160

00:06:51,990 --> 00:06:50,230

they can measure me before and after the

161

00:06:55,380 --> 00:06:52,000

flight all the way down to the enzyme

162

00:06:56,970 --> 00:06:55,390

levels and the cellular levels on me and

163

00:06:58,860 --> 00:06:56,980

so that's that's where the test really

164

00:07:00,540 --> 00:06:58,870

comes from we don't really notice it up

165

00:07:01,890 --> 00:07:00,550

here but you want to see and there's

166

00:07:03,780 --> 00:07:01,900

there's a lot of things we're doing with

167

00:07:07,020 --> 00:07:03,790

exercise regimen with the medicine

168

00:07:11,690 --> 00:07:07,030

medications to minimize bone loss muscle

169

00:07:15,240 --> 00:07:11,700

atrophy and other possible you know

170

00:07:17,940 --> 00:07:15,250

negative side effects of zero g and it's

171

00:07:19,920 --> 00:07:17,950

not bad for six months it it could

172

00:07:22,140 --> 00:07:19,930

become more significant if you're making

173

00:07:23,580 --> 00:07:22,150

an eight-month one-way trip to Mars and

174

00:07:26,400 --> 00:07:23,590

then you need to be healthy enough to

175

00:07:28,470 --> 00:07:26,410

get out and get some work done and get

176  
00:07:30,360 --> 00:07:28,480  
home for another you know roughly eight

177  
00:07:32,520 --> 00:07:30,370  
month trip on the way home so we're

178  
00:07:34,560 --> 00:07:32,530  
learning it now in steps that are I

179  
00:07:37,200 --> 00:07:34,570  
think are quite reasonable and they're

180  
00:07:39,780 --> 00:07:37,210  
getting as much out of us human guinea

181  
00:07:47,850 --> 00:07:39,790  
pigs as again my time is almost up at

182  
00:07:50,160 --> 00:07:47,860  
any changes to your eyesight at all that

183  
00:07:53,700 --> 00:07:50,170  
we have not experienced anything like

184  
00:07:55,650 --> 00:07:53,710  
that everybody's watching close eyes are

185  
00:07:57,750 --> 00:07:55,660  
one of the things that can be affected

186  
00:07:59,910 --> 00:07:57,760  
by the space and we're not completely

187  
00:08:03,030 --> 00:07:59,920  
sure why so we're watching it closely no

188  
00:08:04,950 --> 00:08:03,040

pun intended and the guys it's always a

189

00:08:06,330 --> 00:08:04,960

thrill to talk to you i'm curious and I

190

00:08:08,310 --> 00:08:06,340

don't expect you to zoom out the camera

191

00:08:16,999 --> 00:08:08,320

but are you sitting or standing or just

192

00:08:22,249 --> 00:08:20,989

haha thank you very much it's it's one

193

00:08:30,200 --> 00:08:22,259

of those questions it's better left

194

00:08:39,909 --> 00:08:30,210

unopened aggression all right take care

195

00:08:45,019 --> 00:08:42,560

station this is Houston ACR that

196

00:08:46,850 --> 00:08:45,029

concludes the KTR ktv portion of the

197

00:08:50,780 --> 00:08:46,860

event please stand by for a voice check

198

00:08:55,939 --> 00:08:50,790

from katie rh radio station this is

199

00:08:57,819 --> 00:08:55,949

katie rh radio how do you hear me we

200

00:09:04,150 --> 00:08:57,829

hear you loud and clear how about us

201

00:09:07,250 --> 00:09:06,199

thanks it's good to good to talk to you

202

00:09:10,040 --> 00:09:07,260

welcome aboard the International Space

203

00:09:12,860 --> 00:09:10,050

Station it is matt patrick and louis

204

00:09:14,960 --> 00:09:12,870

melkonian from katy rh in houston first

205

00:09:20,290 --> 00:09:14,970

thing we want to say is go aggies i

206

00:09:24,230 --> 00:09:22,670

we've got the Aggie connection going up

207

00:09:27,379 --> 00:09:24,240

here for sure I of course I'm an Aggie

208

00:09:29,689 --> 00:09:27,389

grad and an Aggie dad and Ron Garan is

209

00:09:31,160 --> 00:09:29,699

an Aggie dead himself so you know we've

210

00:09:33,620 --> 00:09:31,170

got all kinds of Aggie spirit up here

211

00:09:38,660 --> 00:09:33,630

how much Aggie clothing did you bring

212

00:09:41,090 --> 00:09:38,670

with you up to the space station oh boy

213

00:09:42,829 --> 00:09:41,100

that is really a loaded question there

214

00:09:47,480 --> 00:09:42,839

happens to be a lot of maroon in my

215

00:09:49,759 --> 00:09:47,490

clothing selection mike foss and ron

216

00:09:52,340 --> 00:09:49,769

garan it it is a great to talk with you

217

00:09:55,550 --> 00:09:52,350

guys listen is there a different mood on

218

00:09:59,540 --> 00:09:55,560

board right now with the US Space Flight

219

00:10:02,240 --> 00:09:59,550

the shuttle flights on hold in the next

220

00:10:04,189 --> 00:10:02,250

flight not coming in for a couple of

221

00:10:05,540 --> 00:10:04,199

years is there a different kind of a

222

00:10:08,809 --> 00:10:05,550

mood and of course you've got the folks

223

00:10:11,809 --> 00:10:08,819

in clearlake that are you know a little

224

00:10:13,730 --> 00:10:11,819

I don't know I guess the the mood is a

225

00:10:15,230 --> 00:10:13,740

little more somber do you feel that

226

00:10:20,930 --> 00:10:15,240

there are you looking forward to the

227

00:10:22,759 --> 00:10:20,940

days ahead well well yes to both

228

00:10:25,670 --> 00:10:22,769

questions we definitely feel it up here

229

00:10:27,829 --> 00:10:25,680

this is a very difficult challenging

230

00:10:30,319 --> 00:10:27,839

transition period for not only us as a

231

00:10:32,539 --> 00:10:30,329

nation but also our entire the

232

00:10:34,639 --> 00:10:32,549

entire international space program Space

233

00:10:36,289 --> 00:10:34,649

Station program and then you know

234

00:10:38,389 --> 00:10:36,299

particularly felt in those places around

235

00:10:41,269 --> 00:10:38,399

the country that are involved in the

236

00:10:43,789 --> 00:10:41,279

space program like clear lake so you

237

00:10:45,650 --> 00:10:43,799

know it there's a lot of feelings

238

00:10:47,720 --> 00:10:45,660

involved that there's a lot of things to

239

00:10:49,489 --> 00:10:47,730

think about on that you know you know

240

00:10:51,049 --> 00:10:49,499

the way we like to look at it though is

241

00:10:53,600 --> 00:10:51,059

that you know we're closing the chapter

242

00:10:55,759 --> 00:10:53,610

on what on one part of our history but

243

00:10:57,410 --> 00:10:55,769

we're opening up a new chapter it's

244

00:10:59,389 --> 00:10:57,420

going to take us a little bit of wow you

245

00:11:01,069 --> 00:10:59,399

know a little while though to get going

246

00:11:03,439 --> 00:11:01,079

in this new chapter this new chapter

247

00:11:05,660 --> 00:11:03,449

will hopefully see us leaving low-earth

248

00:11:08,179 --> 00:11:05,670

orbit and starting to really explore the

249

00:11:09,769 --> 00:11:08,189

solar system and i and i think and i

250

00:11:11,419 --> 00:11:09,779

hope that clear lake is going to be a

251  
00:11:12,949 --> 00:11:11,429  
big part of that but you know we

252  
00:11:15,379 --> 00:11:12,959  
recognize that there's a lot of people

253  
00:11:18,049 --> 00:11:15,389  
that are you know really going through

254  
00:11:19,850 --> 00:11:18,059  
some tough times because of this and you

255  
00:11:22,579 --> 00:11:19,860  
know i just hope everybody realizes all

256  
00:11:25,369 --> 00:11:22,589  
those people that are having to find

257  
00:11:26,929 --> 00:11:25,379  
other you know making career changes

258  
00:11:28,400 --> 00:11:26,939  
right now because of the transition that

259  
00:11:29,900 --> 00:11:28,410  
we have in the space program what a

260  
00:11:32,090 --> 00:11:29,910  
tremendous contribution and how

261  
00:11:34,879 --> 00:11:32,100  
important their contribution has been

262  
00:11:36,229 --> 00:11:34,889  
that they've made so far because you

263  
00:11:37,639 --> 00:11:36,239

know i truly believe that you know

264

00:11:40,369 --> 00:11:37,649

history will look at this International

265

00:11:42,259 --> 00:11:40,379

Space Station and it will see not only

266

00:11:44,720 --> 00:11:42,269

did it allow us to take that next step

267

00:11:46,340 --> 00:11:44,730

and go explore the sole solar system but

268

00:11:48,739 --> 00:11:46,350

it also made a really big difference a

269

00:11:50,419 --> 00:11:48,749

really big positive impact on the

270

00:11:52,639 --> 00:11:50,429

improved you know just improving life on

271

00:11:53,960 --> 00:11:52,649

Earth and and I think it's something to

272

00:11:55,129 --> 00:11:53,970

really be proud of and we are really

273

00:11:58,039 --> 00:11:55,139

proud of all those people that are

274

00:12:00,889 --> 00:11:58,049

involved in that Ron Garan Mike Fossum

275

00:12:03,710 --> 00:12:00,899

as you look at expedition 28 and you're

276

00:12:06,079 --> 00:12:03,720

represented by the US by Russia by Japan

277

00:12:08,989 --> 00:12:06,089

what is it like in the space station in

278

00:12:16,340 --> 00:12:08,999

terms of just language issues relational

279

00:12:18,949 --> 00:12:16,350

issues yellow is I'm glad you brought

280

00:12:22,129 --> 00:12:18,959

that up because you know not only is

281

00:12:24,229 --> 00:12:22,139

this place you know the stepping stone

282

00:12:25,669 --> 00:12:24,239

to exploration beyond the the low Earth

283

00:12:27,199 --> 00:12:25,679

orbit not only is it going to make life

284

00:12:28,999 --> 00:12:27,209

better on planet earth it's also a

285

00:12:31,669 --> 00:12:29,009

shining example of international

286

00:12:33,829 --> 00:12:31,679

cooperation really is it's it's amazing

287

00:12:35,269 --> 00:12:33,839

to see what this international

288

00:12:37,129 --> 00:12:35,279

partnership has accomplished up here on

289

00:12:38,629 --> 00:12:37,139

orbit and to think that if we can do

290

00:12:40,489 --> 00:12:38,639

this on orbit you know imagine what we

291

00:12:43,519 --> 00:12:40,499

can do to solve the problems facing our

292

00:12:47,030 --> 00:12:43,529

planet but you know on board we are in

293

00:12:49,670 --> 00:12:47,040

crew we primarily speak English however

294

00:12:52,699 --> 00:12:49,680

we do speak Russian to our Russian

295

00:12:56,150 --> 00:12:52,709

crewmates to the Mission Control in

296

00:12:58,999 --> 00:12:56,160

Moscow we have a Japanese crew mate with

297

00:13:00,889 --> 00:12:59,009

us on board and he occasionally if he if

298

00:13:02,210 --> 00:13:00,899

he needs to for technical reasons it

299

00:13:04,910 --> 00:13:02,220

will speak Japanese to the control

300

00:13:07,369 --> 00:13:04,920

center in Japan and that's this is the

301  
00:13:09,049 --> 00:13:07,379  
wave of the future we are you know I

302  
00:13:10,280 --> 00:13:09,059  
think we're going to be able to do great

303  
00:13:11,480 --> 00:13:10,290  
things working together as an

304  
00:13:12,889 --> 00:13:11,490  
international partnership and i think

305  
00:13:17,660 --> 00:13:12,899  
mike wants to add some words to that is

306  
00:13:19,220 --> 00:13:17,670  
no okay so i mean i think that's a that

307  
00:13:21,290 --> 00:13:19,230  
you know it's it's really a neat place

308  
00:13:24,549 --> 00:13:21,300  
to work it's it's a you know great to be

309  
00:13:28,460 --> 00:13:24,559  
part of this international partnership

310  
00:13:30,319 --> 00:13:28,470  
mike fossum ron garan astronauts on the

311  
00:13:31,900 --> 00:13:30,329  
International Space Station events who

312  
00:13:34,840 --> 00:13:31,910  
were speaking with here this morning

313  
00:13:38,119 --> 00:13:34,850

gentlemen is there is there ever a time

314

00:13:41,360 --> 00:13:38,129

when you can find some privacy I would

315

00:13:44,299 --> 00:13:41,370

assume at some point maybe you just kind

316

00:13:46,429 --> 00:13:44,309

of need to go off somewhere and breed or

317

00:13:48,230 --> 00:13:46,439

just kind of be by yourself is there

318

00:13:50,119 --> 00:13:48,240

anywhere on the space station where you

319

00:13:56,360 --> 00:13:50,129

can kind of be alone and just maybe

320

00:13:58,160 --> 00:13:56,370

think this is mike with you i think for

321

00:14:00,350 --> 00:13:58,170

me the favorite my favorite place to go

322

00:14:02,059 --> 00:14:00,360

is a little cluster of windows it's on

323

00:14:03,679 --> 00:14:02,069

the bottom part of the space station and

324

00:14:05,929 --> 00:14:03,689

we affectionately call it the cupola

325

00:14:08,360 --> 00:14:05,939

it's a fairly late addition to the space

326

00:14:10,400 --> 00:14:08,370

station it was not here the last times

327

00:14:13,160 --> 00:14:10,410

I've been here but it is a marvelous

328

00:14:15,290 --> 00:14:13,170

just view of not just the world the

329

00:14:17,629 --> 00:14:15,300

earth as its rolling by five miles a

330

00:14:19,490 --> 00:14:17,639

second but it's also really neat to be

331

00:14:20,990 --> 00:14:19,500

able to see the stars because we have

332

00:14:23,090 --> 00:14:21,000

kind of a sideways view out of this

333

00:14:24,710 --> 00:14:23,100

cluster of windows so you can see the

334

00:14:27,679 --> 00:14:24,720

stars hanging above the earth this

335

00:14:29,559 --> 00:14:27,689

morning I got up early and went to take

336

00:14:32,600 --> 00:14:29,569

a look and there was the aurora borealis

337

00:14:36,319 --> 00:14:32,610

kind of shimmering in the distance and

338

00:14:37,939 --> 00:14:36,329

that was a really neat time to just you

339

00:14:40,639 --> 00:14:37,949

know relax a little bit I had a little

340

00:14:41,960 --> 00:14:40,649

bag of coffee with me and you know kind

341

00:14:44,449 --> 00:14:41,970

of collect my thoughts and get ready for

342

00:14:46,489 --> 00:14:44,459

the day now who else carries a bag of

343

00:14:48,199 --> 00:14:46,499

coffee instead of a cup Mike thanks so

344

00:14:49,639 --> 00:14:48,209

much for that Mike and Ron we're talking

345

00:14:51,679 --> 00:14:49,649

to you we understand you're quite the

346

00:14:56,540 --> 00:14:51,689

spacewalk team how do you become a

347

00:15:02,329 --> 00:15:00,170

hey I think for us it's just a lot of

348

00:15:05,120 --> 00:15:02,339

hard work and even more good luck we

349

00:15:07,430 --> 00:15:05,130

flew together on sts-1 24 3 years ago

350

00:15:09,680 --> 00:15:07,440

and actually we're standing in the

351  
00:15:12,019 --> 00:15:09,690  
japanese laboratory right now and Ron

352  
00:15:14,300 --> 00:15:12,029  
and I did the spacewalks associated with

353  
00:15:16,970 --> 00:15:14,310  
adding this laboratory to the complex up

354  
00:15:20,630 --> 00:15:16,980  
here so we did three spacewalks with 124

355  
00:15:22,610 --> 00:15:20,640  
and then shortly after we got back home

356  
00:15:24,680 --> 00:15:22,620  
run got into the space station training

357  
00:15:26,509 --> 00:15:24,690  
flow and then I was lucky enough to join

358  
00:15:28,370 --> 00:15:26,519  
him a few months later and as luck has

359  
00:15:31,040 --> 00:15:28,380  
it we're here together and they needed a

360  
00:15:34,730 --> 00:15:31,050  
little work done so they knew who to

361  
00:15:38,449 --> 00:15:34,740  
call and as we said it were putting the

362  
00:15:40,190 --> 00:15:38,459  
band back together all right well that

363  
00:15:41,780 --> 00:15:40,200

leads me then to my next question which

364

00:15:44,210 --> 00:15:41,790

I didn't know if I was going to ask or

365

00:15:48,410 --> 00:15:44,220

not but I watched the Peter Frampton

366

00:15:51,019 --> 00:15:48,420

video and Ron I saw you you know talking

367

00:15:53,930 --> 00:15:51,029

with Peter Frampton who I have met on a

368

00:15:57,710 --> 00:15:53,940

few occasions nice guy and you said that

369

00:15:59,300 --> 00:15:57,720

you did bring Frampton Comes Alive up to

370

00:16:00,889 --> 00:15:59,310

the International Space Station i'm

371

00:16:04,430 --> 00:16:00,899

going to call you on that right now is

372

00:16:06,410 --> 00:16:04,440

that indeed true or were you just kind

373

00:16:11,120 --> 00:16:06,420

of placating Peter Frampton and that San

374

00:16:13,069 --> 00:16:11,130

Francisco audience no it is definitely

375

00:16:16,340 --> 00:16:13,079

true and as a matter of fact in that

376

00:16:18,860 --> 00:16:16,350

clip he showed a picture of that CD on

377

00:16:20,780 --> 00:16:18,870

in orbit and and you know music is a

378

00:16:22,850 --> 00:16:20,790

really interesting thing to talk about

379

00:16:24,590 --> 00:16:22,860

up here because this is a very sterile

380

00:16:27,319 --> 00:16:24,600

environment all you hear is you know

381

00:16:29,300 --> 00:16:27,329

pumps and fans and you know it's really

382

00:16:31,310 --> 00:16:29,310

really nice to be able to listen to

383

00:16:34,490 --> 00:16:31,320

music because you know it really gives

384

00:16:36,199 --> 00:16:34,500

you a connection to your home planet if

385

00:16:38,720 --> 00:16:36,209

you will I mean it really is a nice

386

00:16:41,210 --> 00:16:38,730

connection and it's really surreal if

387

00:16:42,980 --> 00:16:41,220

you you know to think about you know

388

00:16:44,210 --> 00:16:42,990

looking at the earth and seeing this

389

00:16:45,860 --> 00:16:44,220

beautiful planet while you're listening

390

00:16:47,540 --> 00:16:45,870

to beautiful music and have that

391

00:16:51,019 --> 00:16:47,550

connection with with the earth it's

392

00:16:53,030 --> 00:16:51,029

really you know almost indescribable you

393

00:16:58,519 --> 00:16:53,040

know how do each of you think of and

394

00:17:00,230 --> 00:16:58,529

this is up sorry yeah this is mike i

395

00:17:02,689 --> 00:17:00,240

just have to add you know we do have an

396

00:17:04,340 --> 00:17:02,699

assortment of music yesterday was Steven

397

00:17:06,380 --> 00:17:04,350

Curtis Chapman day because he was in

398

00:17:09,600 --> 00:17:06,390

Mission Control and got to talk to us

399

00:17:11,429 --> 00:17:09,610

other days r ZZ Top day and and where

400

00:17:13,530 --> 00:17:11,439

you know rocking the station so we enjoy

401  
00:17:15,809 --> 00:17:13,540  
music as a way to help pass the time and

402  
00:17:17,640 --> 00:17:15,819  
have a little fun I know we have to wrap

403  
00:17:19,079 --> 00:17:17,650  
this up but I've got to ask what you

404  
00:17:21,000 --> 00:17:19,089  
think of yourselves i know you've called

405  
00:17:22,949 --> 00:17:21,010  
yourselves human guinea pigs and you're

406  
00:17:24,840 --> 00:17:22,959  
working on the human body biology

407  
00:17:26,939 --> 00:17:24,850  
physics materials you're doing

408  
00:17:30,150 --> 00:17:26,949  
cutting-edge experiments that will

409  
00:17:36,210 --> 00:17:30,160  
really influenced many of us for years

410  
00:17:38,310 --> 00:17:36,220  
and decades to come yeah I mean that

411  
00:17:41,669 --> 00:17:38,320  
that's that's part of the reason why we

412  
00:17:43,020 --> 00:17:41,679  
do what we do here we realize that you

413  
00:17:45,990 --> 00:17:43,030

know this is a this is an opportunity

414

00:17:49,950 --> 00:17:46,000

for us as not just the nation but us as

415

00:17:51,810 --> 00:17:49,960

as as a species as humanity to improve

416

00:17:54,990 --> 00:17:51,820

our lot to improve our planet to improve

417

00:17:56,370 --> 00:17:55,000

our the way we live there's experiments

418

00:17:57,990 --> 00:17:56,380

that we're doing on board that I think

419

00:18:00,990 --> 00:17:58,000

will lead to better ways to provide

420

00:18:03,030 --> 00:18:01,000

clean water better food better medicines

421

00:18:04,980 --> 00:18:03,040

better materials the list goes on and on

422

00:18:06,390 --> 00:18:04,990

and to be a part of that and to be

423

00:18:08,370 --> 00:18:06,400

working with all those thousands of

424

00:18:11,010 --> 00:18:08,380

people not just across the nation but

425

00:18:13,620 --> 00:18:11,020

across round the world to to basically

426

00:18:15,570 --> 00:18:13,630

this is a pretty you know important

427

00:18:17,190 --> 00:18:15,580

pretty this is a pretty big deal this is

428

00:18:18,720 --> 00:18:17,200

this is something that's going to change

429

00:18:21,000 --> 00:18:18,730

the world and to be a part of that is

430

00:18:22,740 --> 00:18:21,010

just an absolute honor and if that means

431

00:18:24,870 --> 00:18:22,750

that sometimes we got to donate some of

432

00:18:27,000 --> 00:18:24,880

our blood to and throw it in the freezer

433

00:18:29,070 --> 00:18:27,010

for evaluation back on the earth and

434

00:18:30,450 --> 00:18:29,080

that's a small price to pay because you

435

00:18:32,730 --> 00:18:30,460

know it's a it's it's really an honor

436

00:18:35,070 --> 00:18:32,740

and a privilege to do this Mike Fossum

437

00:18:36,750 --> 00:18:35,080

Ron Garan thank you so much for the time

438

00:18:39,780 --> 00:18:36,760

for the International Space Station from

439

00:18:43,850 --> 00:18:39,790

all of us here at Katie rh back on earth

440

00:18:50,039 --> 00:18:45,900

thanks bad thanks Louis it was great