



1
00:00:18,790 --> 00:00:03,270
station this is houston are you ready

2
00:00:18,800 --> 00:00:22,470
houston we're ready for the event

3
00:00:26,870 --> 00:00:24,870
hey hou tv this is mission control

4
00:00:29,109 --> 00:00:26,880
houston please call station for a voice

5
00:00:35,030 --> 00:00:31,509
station this is khou tv how do you hear

6
00:00:40,310 --> 00:00:36,709
hey this is space station we hear you

7
00:00:47,750 --> 00:00:42,150
fantastic gentlemen thank you for taking

8
00:00:47,760 --> 00:00:52,950
glad to be with you today

9
00:00:55,990 --> 00:00:54,630
first question mr fossum how are you

10
00:00:57,189 --> 00:00:56,000
holding up after

11
00:01:03,670 --> 00:00:57,199
your time

12
00:01:08,630 --> 00:01:06,469
oh no this is uh the time has gone by in

13
00:01:10,230 --> 00:01:08,640

a flash it's been

14

00:01:12,230 --> 00:01:10,240

the calendar says it's been five and a

15

00:01:14,550 --> 00:01:12,240

half months to me it seems more like

16

00:01:15,990 --> 00:01:14,560

five and a half weeks if you ask my wife

17

00:01:18,390 --> 00:01:16,000

it's probably more like five and a half

18

00:01:22,950 --> 00:01:21,030

understood understood you are you are

19

00:01:26,710 --> 00:01:22,960

that busy five and a half months goes by

20

00:01:30,550 --> 00:01:28,789

oh it goes by in a flash you bet i've

21

00:01:32,550 --> 00:01:30,560

dreamed about living and working on a

22

00:01:35,190 --> 00:01:32,560

space station literally since i was a

23

00:01:37,830 --> 00:01:35,200

kid and so this is a dream come true for

24

00:01:40,230 --> 00:01:37,840

me i'm enjoying every bit of the the

25

00:01:43,670 --> 00:01:40,240

trip up here and indeed enjoyed the two

26
00:01:45,429 --> 00:01:43,680
and a half year training road uh to the

27
00:01:47,670 --> 00:01:45,439
before launching and coming up here so

28
00:01:49,510 --> 00:01:47,680
this has been great i it's i

29
00:01:50,870 --> 00:01:49,520
would be more than happy to stay here a

30
00:01:52,230 --> 00:01:50,880
bit longer

31
00:01:54,310 --> 00:01:52,240
and mr burbank we're not going to leave

32
00:01:56,069 --> 00:01:54,320
you out but i gotta ask a couple aggie

33
00:01:59,590 --> 00:01:56,079
questions first how are you possibly

34
00:02:01,590 --> 00:01:59,600
gonna move from this quiet location

35
00:02:03,510 --> 00:02:01,600
relatively where you are now to an aggie

36
00:02:08,150 --> 00:02:03,520
football game in just two days after you

37
00:02:11,830 --> 00:02:09,910
i am afraid i'm going to have to going

38
00:02:14,070 --> 00:02:11,840

to have to watch this particular game on

39

00:02:15,750 --> 00:02:14,080

tv i've enjoyed watching the games and

40

00:02:18,470 --> 00:02:15,760

game highlights appear through the

41

00:02:20,550 --> 00:02:18,480

season it's been a hard season but uh

42

00:02:24,869 --> 00:02:20,560

you know all die hard fans are watching

43

00:02:28,710 --> 00:02:26,790

so there's no way travel time you could

44

00:02:30,550 --> 00:02:28,720

possibly find yourself in that stadium

45

00:02:35,509 --> 00:02:30,560

in that short amount of time but i i

46

00:02:39,589 --> 00:02:37,509

when we were coming home about a week

47

00:02:41,030 --> 00:02:39,599

earlier that we were definitely uh

48

00:02:43,350 --> 00:02:41,040

holding on to that thought and would

49

00:02:45,509 --> 00:02:43,360

love to do it uh we'll have family and

50

00:02:47,589 --> 00:02:45,519

friends at the game but it's a little

51
00:02:49,030 --> 00:02:47,599
too quick after getting home for me to

52
00:02:51,830 --> 00:02:49,040
try to

53
00:02:53,750 --> 00:02:51,840
mingle with 85 000 people in kyle field

54
00:02:55,190 --> 00:02:53,760
much as i'd love to be there

55
00:02:58,790 --> 00:02:55,200
would it be too much culture shock if

56
00:03:03,190 --> 00:03:00,710
oh we're no we're not talking culture

57
00:03:05,270 --> 00:03:03,200
shock that's the that's 85 000 family

58
00:03:06,790 --> 00:03:05,280
members there no problem at all it's

59
00:03:08,630 --> 00:03:06,800
just uh the

60
00:03:10,630 --> 00:03:08,640
the rehabilitation takes a little bit of

61
00:03:12,390 --> 00:03:10,640
time and i think two days after getting

62
00:03:14,149 --> 00:03:12,400
home is a little quick too i try to

63
00:03:15,910 --> 00:03:14,159

venture out that much

64

00:03:17,589 --> 00:03:15,920

exactly and what is the most difficult

65

00:03:20,550 --> 00:03:17,599

part of being in space for five and a

66

00:03:21,589 --> 00:03:20,560

half months is the isolation up there

67

00:03:24,550 --> 00:03:21,599

the amount of time it's going to take

68

00:03:26,710 --> 00:03:24,560

you to recover and your advice for mr

69

00:03:29,910 --> 00:03:26,720

burbank is he begins his stay

70

00:03:32,390 --> 00:03:30,869

you bet

71

00:03:35,270 --> 00:03:32,400

for me the hardest part is just a

72

00:03:37,830 --> 00:03:35,280

separation from family

73

00:03:40,630 --> 00:03:37,840

we stay in touch email phone calls and a

74

00:03:42,550 --> 00:03:40,640

weekly video conference but my family my

75

00:03:44,470 --> 00:03:42,560

kids some of my kids are older married

76

00:03:46,789 --> 00:03:44,480

and out of state and

77

00:03:49,030 --> 00:03:46,799

with and i have a granddaughter now so

78

00:03:50,630 --> 00:03:49,040

it's uh missing out on being there for

79

00:03:52,309 --> 00:03:50,640

the family events like that it's

80

00:03:54,390 --> 00:03:52,319

probably the hardest part

81

00:03:57,110 --> 00:03:54,400

professionally it's it's awesome it's

82

00:03:59,589 --> 00:03:57,120

been just a wonderful experience and my

83

00:04:00,470 --> 00:03:59,599

advice for dan is enjoy every bit of

84

00:04:02,789 --> 00:04:00,480

every day

85

00:04:04,070 --> 00:04:02,799

though there any time you know you think

86

00:04:07,030 --> 00:04:04,080

that you're getting a little bit

87

00:04:09,670 --> 00:04:07,040

frustrated uh get a grip because you're

88

00:04:11,190 --> 00:04:09,680

in the most amazing place imaginable

89

00:04:14,390 --> 00:04:11,200

working in the world's premier

90

00:04:16,870 --> 00:04:14,400

laboratory in orbit you know 240 miles

91

00:04:19,270 --> 00:04:16,880

above the earth there is just it this is

92

00:04:22,230 --> 00:04:19,280

an amazing place and what a just a great

93

00:04:23,990 --> 00:04:22,240

experience it is every bit of it

94

00:04:25,510 --> 00:04:24,000

and mr burbank if i can start with you

95

00:04:30,310 --> 00:04:25,520

uh where are you guys physically right

96

00:04:33,430 --> 00:04:30,320

now in iss and uh where in orbit are you

97

00:04:38,150 --> 00:04:35,430

okay right now on the iss we're in the

98

00:04:39,830 --> 00:04:38,160

u.s laboratory destiny so we're probably

99

00:04:42,230 --> 00:04:39,840

about three quarters of the way from the

100

00:04:43,909 --> 00:04:42,240

very furthest aft part of the space

101
00:04:47,350 --> 00:04:43,919
station to the very furthest forward

102
00:04:48,870 --> 00:04:47,360
part and this is where most of the the

103
00:04:50,469 --> 00:04:48,880
american science is done in this

104
00:04:52,710 --> 00:04:50,479
laboratory right here

105
00:04:54,790 --> 00:04:52,720
as far as where we are over planet earth

106
00:04:56,550 --> 00:04:54,800
frankly we've been so busy lately i

107
00:04:57,990 --> 00:04:56,560
couldn't tell you the window that we

108
00:04:59,590 --> 00:04:58,000
would ordinarily be able to look down

109
00:05:02,310 --> 00:04:59,600
and look through right now has a science

110
00:05:03,990 --> 00:05:02,320
experiment in it and it's closed up and

111
00:05:04,950 --> 00:05:04,000
we've got computers that'll often tell

112
00:05:06,870 --> 00:05:04,960
us that

113
00:05:08,790 --> 00:05:06,880

if we were right now in node three where

114

00:05:10,950 --> 00:05:08,800

the cupola is it would be almost

115

00:05:12,950 --> 00:05:10,960

effortless because we'd have a 360

116

00:05:15,029 --> 00:05:12,960

degree view of the world scrolling by

117

00:05:17,029 --> 00:05:15,039

beneath us but i i couldn't tell you

118

00:05:18,390 --> 00:05:17,039

right now i'm embarrassed embarrassed to

119

00:05:22,310 --> 00:05:18,400

say

120

00:05:23,670 --> 00:05:22,320

with just a few days of overlap up here

121

00:05:25,510 --> 00:05:23,680

handover time

122

00:05:27,749 --> 00:05:25,520

they just they didn't schedule in window

123

00:05:29,670 --> 00:05:27,759

time we get that later at night once the

124

00:05:32,310 --> 00:05:29,680

regular work schedule is complete as we

125

00:05:33,350 --> 00:05:32,320

did last night enjoyed dan's first look

126
00:05:35,909 --> 00:05:33,360
out of that

127
00:05:37,990 --> 00:05:35,919
panoramic view from the cupola which is

128
00:05:39,830 --> 00:05:38,000
just absolutely stunning and we look

129
00:05:41,909 --> 00:05:39,840
forward to more of that this evening

130
00:05:43,990 --> 00:05:41,919
after the works complete and a question

131
00:05:46,390 --> 00:05:44,000
for both of you i'd i've got to ask you

132
00:05:50,070 --> 00:05:46,400
to compare your your various rides uh up

133
00:05:51,749 --> 00:05:50,080
there uh uh compare shuttle to soyuz

134
00:05:57,749 --> 00:05:51,759
given that it's your your only way to

135
00:06:00,790 --> 00:05:59,510
well my my first two flights were on a

136
00:06:03,189 --> 00:06:00,800
shuttle of course

137
00:06:05,590 --> 00:06:03,199
as far as just the experience of the

138
00:06:08,309 --> 00:06:05,600

ride uphill i'd say the acceleration the

139

00:06:10,870 --> 00:06:08,319

sensations are are very similar um the

140

00:06:12,629 --> 00:06:10,880

shuttle is a little bit more uh spacious

141

00:06:14,550 --> 00:06:12,639

inside so there's it's a it's a

142

00:06:17,029 --> 00:06:14,560

different experience as far as the crew

143

00:06:18,550 --> 00:06:17,039

is and and it goes we've got if you're

144

00:06:20,150 --> 00:06:18,560

on the flight deck on the shuttle and if

145

00:06:21,909 --> 00:06:20,160

you're for example sitting in the

146

00:06:23,670 --> 00:06:21,919

mission specialist number two seat

147

00:06:26,230 --> 00:06:23,680

you've got windows all along in front of

148

00:06:28,629 --> 00:06:26,240

you and windows directly above

149

00:06:30,710 --> 00:06:28,639

when the soyuz launches you're in a much

150

00:06:32,390 --> 00:06:30,720

smaller capsule the windows that you've

151
00:06:35,510 --> 00:06:32,400
got initially at least the beginning of

152
00:06:37,749 --> 00:06:35,520
the ascent are actually obstructed by

153
00:06:40,390 --> 00:06:37,759
by a fairing that covers the entire

154
00:06:41,749 --> 00:06:40,400
spacecraft the the soyuz capsule if you

155
00:06:43,830 --> 00:06:41,759
will that's on top

156
00:06:46,390 --> 00:06:43,840
so until that actually separates there's

157
00:06:48,950 --> 00:06:46,400
no no view outside but when it does

158
00:06:51,909 --> 00:06:48,960
it's spectacular we went from basically

159
00:06:54,710 --> 00:06:51,919
leaving the pad and uh blowing snow and

160
00:06:56,550 --> 00:06:54,720
uh and uh cryogenically induced you know

161
00:06:59,189 --> 00:06:56,560
from the propellant on the rocket crowd

162
00:07:01,430 --> 00:06:59,199
cried gently uh induced fog that was

163
00:07:03,670 --> 00:07:01,440

very dense and it being night at least

164

00:07:05,830 --> 00:07:03,680

when we boarded the vehicle to after a

165

00:07:08,629 --> 00:07:05,840

couple of minutes after launch suddenly

166

00:07:10,070 --> 00:07:08,639

just blazing sun you know sun shining

167

00:07:12,070 --> 00:07:10,080

through the windows looking at the earth

168

00:07:14,469 --> 00:07:12,080

starting to descend beneath you it was

169

00:07:16,469 --> 00:07:14,479

uh very impressive very neat

170

00:07:17,909 --> 00:07:16,479

and for both the i believe mr foster

171

00:07:19,029 --> 00:07:17,919

i'll have to say

172

00:07:22,950 --> 00:07:19,039

this will be your first go ahead i'm

173

00:07:28,070 --> 00:07:25,270

i flew uh also two times on the space

174

00:07:29,990 --> 00:07:28,080

shuttle and for me i felt on the on the

175

00:07:31,270 --> 00:07:30,000

shuttle that launch you really feel the

176

00:07:33,189 --> 00:07:31,280

massive

177

00:07:36,230 --> 00:07:33,199

vehicle underneath you there's a whole

178

00:07:38,070 --> 00:07:36,240

lot of weight uh you know and and you

179

00:07:40,629 --> 00:07:38,080

feel that this just massive energy

180

00:07:43,510 --> 00:07:40,639

underneath you uh you know it's it's

181

00:07:46,309 --> 00:07:43,520

really a flying truck uh with you know

182

00:07:48,869 --> 00:07:46,319

huge power the soyuz felt to me

183

00:07:50,390 --> 00:07:48,879

like it was a little more nimble more of

184

00:07:52,309 --> 00:07:50,400

a sports car kind of feel and it

185

00:07:54,550 --> 00:07:52,319

certainly feels like it everybody's in a

186

00:07:56,550 --> 00:07:54,560

quite literally a bucket seat and it's

187

00:07:58,230 --> 00:07:56,560

it's tight it's like three big guys in

188

00:07:59,830 --> 00:07:58,240

the backseat of a volkswagen that's kind

189

00:08:02,390 --> 00:07:59,840

of what it's what it seems like there

190

00:08:04,070 --> 00:08:02,400

you're you're you're in there very tight

191

00:08:05,830 --> 00:08:04,080

because it's a it's a very efficient way

192

00:08:08,550 --> 00:08:05,840

to move people to and from the space

193

00:08:10,469 --> 00:08:08,560

station not a lot of cargo there's uh

194

00:08:12,629 --> 00:08:10,479

you know a few hundred pounds of cargo

195

00:08:14,469 --> 00:08:12,639

which is very valuable but that's not

196

00:08:17,270 --> 00:08:14,479

its main purpose its main purpose is

197

00:08:19,350 --> 00:08:17,280

hauling people and it's good at that uh

198

00:08:20,790 --> 00:08:19,360

the ride up was you know the the uh

199

00:08:22,469 --> 00:08:20,800

there was there were some differences

200

00:08:24,390 --> 00:08:22,479

the ride home is

201
00:08:26,629 --> 00:08:24,400
by all accounts haven't yet experienced

202
00:08:29,110 --> 00:08:26,639
it firsthand not for another few days

203
00:08:31,350 --> 00:08:29,120
but a very different ride home

204
00:08:34,149 --> 00:08:31,360
where the shuttle comes in

205
00:08:35,750 --> 00:08:34,159
like an airliner as the g's build up as

206
00:08:38,469 --> 00:08:35,760
you as you come in like that sitting in

207
00:08:40,070 --> 00:08:38,479
a seat for a shuttle crew member

208
00:08:42,310 --> 00:08:40,080
for here you know we're we're on our

209
00:08:45,030 --> 00:08:42,320
backs and we'll be feeling the g's

210
00:08:46,470 --> 00:08:45,040
through our chest uh and the the big

211
00:08:48,470 --> 00:08:46,480
difference though instead of gliding

212
00:08:51,430 --> 00:08:48,480
down to a runway and sitting down you

213
00:08:53,110 --> 00:08:51,440

know in a gentle type fashion it we land

214

00:08:55,750 --> 00:08:53,120

under parachutes and the parachute

215

00:08:58,710 --> 00:08:55,760

opening shock and the dynamics of that

216

00:09:01,430 --> 00:08:58,720

parachute opening the repositioning

217

00:09:03,910 --> 00:09:01,440

etc is described as

218

00:09:06,710 --> 00:09:03,920

quite significant and memorable as well

219

00:09:09,269 --> 00:09:06,720

as the uh there's a soft landing rockets

220

00:09:12,230 --> 00:09:09,279

that go off just above the ground to to

221

00:09:14,470 --> 00:09:12,240

begin that final deceleration before you

222

00:09:16,550 --> 00:09:14,480

thunk down and uh

223

00:09:17,750 --> 00:09:16,560

you know and uh you know you're back on

224

00:09:19,350 --> 00:09:17,760

earth

225

00:09:20,550 --> 00:09:19,360

and we're limited on time here i think

226

00:09:21,910 --> 00:09:20,560

we're less than two minutes but i got to

227

00:09:23,590 --> 00:09:21,920

ask both of you does it trouble either

228

00:09:25,509 --> 00:09:23,600

of you that that is your only way to and

229

00:09:26,870 --> 00:09:25,519

from iss now your your thoughts on that

230

00:09:28,710 --> 00:09:26,880

and then the final question will be an

231

00:09:34,070 --> 00:09:28,720

easy one for mr fossum i need a

232

00:09:38,949 --> 00:09:36,870

um as far as your your first question

233

00:09:40,790 --> 00:09:38,959

i think in general it behooves all of us

234

00:09:42,630 --> 00:09:40,800

to have as many ways to get to and from

235

00:09:44,870 --> 00:09:42,640

space as we can and i'm encouraged by

236

00:09:46,550 --> 00:09:44,880

the fact that shortly uh in the next

237

00:09:47,910 --> 00:09:46,560

couple years we probably will have a

238

00:09:49,670 --> 00:09:47,920

whole suite of different vehicles and

239

00:09:51,990 --> 00:09:49,680

options to get to space

240

00:09:54,150 --> 00:09:52,000

coming back i think a capsule is a very

241

00:09:56,230 --> 00:09:54,160

reliable very quick way to come back and

242

00:09:59,750 --> 00:09:56,240

mike kind of described it for you but so

243

00:10:03,990 --> 00:10:01,750

and i i do think that we'd need an

244

00:10:06,310 --> 00:10:04,000

american capability to launch humans to

245

00:10:07,670 --> 00:10:06,320

and from space to get to and from space

246

00:10:09,190 --> 00:10:07,680

to get to and from the space station i

247

00:10:10,790 --> 00:10:09,200

think it's an obligation as a space

248

00:10:14,230 --> 00:10:10,800

station partner to have a redundant

249

00:10:16,069 --> 00:10:14,240

capability uh in case there's a a delay

250

00:10:17,990 --> 00:10:16,079

or a problem with the with the russian

251
00:10:20,470 --> 00:10:18,000
system and we saw a potential you know

252
00:10:22,630 --> 00:10:20,480
significant setback after the the soyuz

253
00:10:24,870 --> 00:10:22,640
booster failure on the progress launch

254
00:10:26,710 --> 00:10:24,880
in august that delayed dan's arrival by

255
00:10:28,389 --> 00:10:26,720
a couple of months if that was a little

256
00:10:29,430 --> 00:10:28,399
bit longer then we would be turning out

257
00:10:31,509 --> 00:10:29,440
the lights

258
00:10:32,790 --> 00:10:31,519
figuratively up here and nobody wants to

259
00:10:35,190 --> 00:10:32,800
do that

260
00:10:37,430 --> 00:10:35,200
as for the game hey aggies are going to

261
00:10:39,910 --> 00:10:37,440
win that thanksgiving game hands down

262
00:10:41,350 --> 00:10:39,920
look forward to it

263
00:10:43,670 --> 00:10:41,360

gentlemen thank you it's been an honor

264

00:10:45,829 --> 00:10:43,680

talking to you uh best of luck up there

265

00:10:50,069 --> 00:10:45,839

and your stay and mr fossum coming home

266

00:10:50,079 --> 00:10:52,790

thank you much

267

00:11:01,670 --> 00:10:54,710

station this is houston acr that