



1
00:00:06,630 --> 00:00:04,710
been here once before

2
00:00:08,870 --> 00:00:06,640
nice to meet you good how are you

3
00:00:12,709 --> 00:00:08,880
pleasure to meet you sir welcome to mcc

4
00:00:18,630 --> 00:00:14,950
i'm breaking this awesome

5
00:00:22,230 --> 00:00:20,710
and that's a picture of washington dc

6
00:00:26,790 --> 00:00:22,240
you can see the mall down the middle and

7
00:00:30,950 --> 00:00:28,870
scott and tim this is ellen and as you

8
00:00:33,590 --> 00:00:30,960
know we have some very special guests

9
00:00:36,630 --> 00:00:33,600
here today in mission control

10
00:00:39,590 --> 00:00:36,640
so i would like to hand it over to

11
00:00:43,190 --> 00:00:41,910
well thank you ellen and uh it's really

12
00:00:44,709 --> 00:00:43,200
great to be able to talk to the

13
00:00:48,310 --> 00:00:44,719

president today

14

00:00:51,510 --> 00:00:48,320

nice talking to you how is it up there

15

00:00:53,430 --> 00:00:51,520

well sir it's uh it's great it's a real

16

00:00:55,189 --> 00:00:53,440

privilege to be part of this uh space

17

00:00:58,310 --> 00:00:55,199

station the space station program it's

18

00:01:00,229 --> 00:00:58,320

an amazing uh amazing place and we're

19

00:01:02,229 --> 00:01:00,239

fortunate to be able to do this great

20

00:01:05,429 --> 00:01:02,239

work here in space

21

00:01:08,550 --> 00:01:05,439

working on some experiments

22

00:01:10,870 --> 00:01:08,560

yes sir we have about uh 400 different

23

00:01:13,429 --> 00:01:10,880

experiments that are going on during the

24

00:01:15,350 --> 00:01:13,439

course of the year that i'm here and

25

00:01:17,590 --> 00:01:15,360

those are generally in three different

26

00:01:19,990 --> 00:01:17,600

categories those are those that are kind

27

00:01:22,950 --> 00:01:20,000

of you know looking away from earth

28

00:01:24,149 --> 00:01:22,960

those exploration based experiments you

29

00:01:25,910 --> 00:01:24,159

know how we can

30

00:01:28,630 --> 00:01:25,920

live and work in space for longer

31

00:01:31,270 --> 00:01:28,640

periods of time both you know on a on a

32

00:01:33,590 --> 00:01:31,280

physical level but also how we develop

33

00:01:35,429 --> 00:01:33,600

the systems that are required like you

34

00:01:38,149 --> 00:01:35,439

know for instance yesterday tim and i

35

00:01:39,670 --> 00:01:38,159

fixed our carbon dioxide removal system

36

00:01:42,230 --> 00:01:39,680

and uh you know that's something we're

37

00:01:43,830 --> 00:01:42,240

going to need to uh go to mars today the

38

00:01:45,109 --> 00:01:43,840

other type of experiments are the ones

39

00:01:47,270 --> 00:01:45,119

that improve

40

00:01:49,590 --> 00:01:47,280

or look to improve life on earth the

41

00:01:52,069 --> 00:01:49,600

things like uh you know in some cases

42

00:01:53,910 --> 00:01:52,079

pharmaceutical type research that we've

43

00:01:56,789 --> 00:01:53,920

done uh with

44

00:01:59,590 --> 00:01:56,799

you know certain organizations or

45

00:02:02,310 --> 00:01:59,600

you know the basic science stuff we have

46

00:02:04,630 --> 00:02:02,320

a combustion rack that does combustion

47

00:02:06,550 --> 00:02:04,640

science that we're working on today so a

48

00:02:08,550 --> 00:02:06,560

lot of experiments are you know more

49

00:02:09,990 --> 00:02:08,560

looking towards the earth and how to

50

00:02:11,750 --> 00:02:10,000

improve life on earth and then there's

51
00:02:14,470 --> 00:02:11,760
the international experiments that kind

52
00:02:17,190 --> 00:02:14,480
of you know uh combine both of those

53
00:02:18,550 --> 00:02:17,200
different uh categories

54
00:02:19,990 --> 00:02:18,560
you're great

55
00:02:21,589 --> 00:02:20,000
you're not a

56
00:02:23,670 --> 00:02:21,599
shutterbug

57
00:02:26,150 --> 00:02:23,680
tell me about the picture

58
00:02:27,910 --> 00:02:26,160
yes sir well we have a great view up

59
00:02:30,309 --> 00:02:27,920
here and it's a uh

60
00:02:32,710 --> 00:02:30,319
you know it's a beautiful planet and um

61
00:02:35,910 --> 00:02:32,720
you know every time i think i've seen uh

62
00:02:39,750 --> 00:02:35,920
everything earth has to offer i am just

63
00:02:41,750 --> 00:02:39,760

surprised one more time and it's uh

64

00:02:44,550 --> 00:02:41,760

it's just great to be able to share that

65

00:02:46,470 --> 00:02:44,560

those uh images with the the people of

66

00:02:48,150 --> 00:02:46,480

earth i know they enjoy them i actually

67

00:02:49,990 --> 00:02:48,160

take a lot of pictures of the science

68

00:02:52,229 --> 00:02:50,000

experiments too but

69

00:02:55,030 --> 00:02:52,239

a lot of people enjoy those but but more

70

00:02:58,149 --> 00:02:55,040

people more enjoy the pretty pictures so

71

00:03:01,509 --> 00:02:58,159

i try to to take those a lot and and as

72

00:03:03,270 --> 00:03:01,519

do my uh my fellow crewmates so yeah we

73

00:03:04,949 --> 00:03:03,280

take a take a lot of pictures of earth

74

00:03:06,149 --> 00:03:04,959

because it's so beautiful we can't help

75

00:03:08,869 --> 00:03:06,159

it

76

00:03:11,030 --> 00:03:08,879

hey scott so you know over the last year

77

00:03:13,270 --> 00:03:11,040

you've been growing some plants in space

78

00:03:14,869 --> 00:03:13,280

we saw a picture of a flower you know

79

00:03:17,030 --> 00:03:14,879

there was the lettuce you grew why don't

80

00:03:19,350 --> 00:03:17,040

you tell president bush a little bit

81

00:03:20,229 --> 00:03:19,360

about some of the crops you've had on

82

00:03:22,470 --> 00:03:20,239

board

83

00:03:25,270 --> 00:03:22,480

yes sir so we've had uh

84

00:03:27,030 --> 00:03:25,280

plant growth experiments up here we

85

00:03:29,589 --> 00:03:27,040

actually do them in the columbus the

86

00:03:31,110 --> 00:03:29,599

european uh science modules where

87

00:03:34,149 --> 00:03:31,120

they're located right now and they have

88

00:03:35,750 --> 00:03:34,159

a it's it's a kind of interesting

89

00:03:38,149 --> 00:03:35,760

uh facility

90

00:03:40,309 --> 00:03:38,159

the lighting that it uses is pink so

91

00:03:42,070 --> 00:03:40,319

when the lights are out it's uh

92

00:03:43,670 --> 00:03:42,080

generally got a pink glow in there and

93

00:03:45,270 --> 00:03:43,680

it's uh

94

00:03:47,910 --> 00:03:45,280

in the beginning of the flight we grew

95

00:03:49,990 --> 00:03:47,920

some lettuce with the idea to better

96

00:03:51,430 --> 00:03:50,000

understand how we can grow crops in

97

00:03:53,030 --> 00:03:51,440

space because

98

00:03:54,309 --> 00:03:53,040

when we get to mars

99

00:03:57,030 --> 00:03:54,319

we're probably not going to be able to

100

00:03:59,110 --> 00:03:57,040

take all of our food with us so you know

101
00:04:00,550 --> 00:03:59,120
understanding how you can grow crops and

102
00:04:01,830 --> 00:04:00,560
then eat them and we actually ate the

103
00:04:03,830 --> 00:04:01,840
lettuce in

104
00:04:05,990 --> 00:04:03,840
in this kind of environment is pretty

105
00:04:08,630 --> 00:04:06,000
important and

106
00:04:10,710 --> 00:04:08,640
right now i'm growing some flowering

107
00:04:13,190 --> 00:04:10,720
plants some zinnias

108
00:04:16,390 --> 00:04:13,200
that i think we've learned a lot about

109
00:04:18,629 --> 00:04:16,400
uh doing this

110
00:04:20,870 --> 00:04:18,639
kind of experiment and just you know

111
00:04:23,350 --> 00:04:20,880
being you know for lack of a better word

112
00:04:25,030 --> 00:04:23,360
a farmer in space in the beginning there

113
00:04:27,030 --> 00:04:25,040

was a lot of interaction with the ground

114

00:04:29,189 --> 00:04:27,040

and that didn't work out very well and

115

00:04:31,030 --> 00:04:29,199

the flowers uh i was either over

116

00:04:33,110 --> 00:04:31,040

watering them or under watering them

117

00:04:35,030 --> 00:04:33,120

because i was following the direction of

118

00:04:37,030 --> 00:04:35,040

the ground and they they were

119

00:04:39,270 --> 00:04:37,040

practically dead and i actually got a

120

00:04:40,950 --> 00:04:39,280

lot of a lot of heat for it from folks

121

00:04:43,510 --> 00:04:40,960

on the ground when they saw my pictures

122

00:04:45,830 --> 00:04:43,520

of my flowers so i was extra motivated

123

00:04:47,990 --> 00:04:45,840

to bring them back to life and i put a

124

00:04:48,710 --> 00:04:48,000

lot of effort into it and i did and

125

00:04:53,030 --> 00:04:48,720

they're

126

00:04:55,189 --> 00:04:53,040

valentine's day i'm gonna

127

00:04:56,950 --> 00:04:55,199

harvest them so we'll be we'll be done

128

00:04:59,030 --> 00:04:56,960

with the flowers but i figured

129

00:05:01,590 --> 00:04:59,040

valentine's day would be a good day to

130

00:05:03,189 --> 00:05:01,600

cut them down and we'll freeze them and

131

00:05:05,749 --> 00:05:03,199

take a look at them when they get back

132

00:05:10,070 --> 00:05:05,759

down on on earth

133

00:05:16,150 --> 00:05:12,710

yes sir so i've uh i launched on march

134

00:05:18,070 --> 00:05:16,160

uh 28th and i will be back on march 2nd

135

00:05:20,070 --> 00:05:18,080

so they're even though i'm not counting

136

00:05:23,189 --> 00:05:20,080

the days i'm trying to avoid counting

137

00:05:24,710 --> 00:05:23,199

the days i do know that i have uh 26

138

00:05:26,790 --> 00:05:24,720

days to go

139

00:05:29,350 --> 00:05:26,800

which is about eight percent which to me

140

00:05:31,670 --> 00:05:29,360

still seems like a long time

141

00:05:33,189 --> 00:05:31,680

but um yeah we i've been up here a long

142

00:05:34,390 --> 00:05:33,199

time

143

00:05:38,390 --> 00:05:34,400

why don't you tell us a little bit about

144

00:05:39,909 --> 00:05:38,400

the guy next to you and maybe tim could

145

00:05:43,029 --> 00:05:39,919

i think it's important to point out that

146

00:05:46,310 --> 00:05:43,039

the space station that you guys are on

147

00:05:48,950 --> 00:05:46,320

is uh you know started essentially with

148

00:05:51,110 --> 00:05:48,960

space station freedom that that was um

149

00:05:53,189 --> 00:05:51,120

you know something that president bush

150

00:05:55,029 --> 00:05:53,199

started in the 1980s and then space

151

00:05:57,029 --> 00:05:55,039

station freedom eventually became the

152

00:05:59,909 --> 00:05:57,039

international space station

153

00:06:02,150 --> 00:05:59,919

that you were aboard today so maybe tim

154

00:06:04,070 --> 00:06:02,160

could tell president bush a little bit

155

00:06:05,590 --> 00:06:04,080

about what the

156

00:06:06,390 --> 00:06:05,600

you know the entirety of the space

157

00:06:07,909 --> 00:06:06,400

station

158

00:06:10,230 --> 00:06:07,919

i know you can't give us a tour but you

159

00:06:11,670 --> 00:06:10,240

can talk a little bit more about it

160

00:06:12,950 --> 00:06:11,680

yeah i'll let him do that in a second

161

00:06:15,189 --> 00:06:12,960

but president bush i figured since

162

00:06:20,870 --> 00:06:15,199

you're you're a navy guy too like me we

163

00:06:25,189 --> 00:06:22,230

it's an honor to talk to you today

164

00:06:27,270 --> 00:06:25,199

president bush we have a tremendously uh

165

00:06:29,990 --> 00:06:27,280

elaborate station here we're inside the

166

00:06:31,590 --> 00:06:30,000

the japanese lab right now behind us is

167

00:06:33,270 --> 00:06:31,600

a storage facility

168

00:06:36,150 --> 00:06:33,280

across from us is

169

00:06:38,469 --> 00:06:36,160

a european lab a connecting block and

170

00:06:40,390 --> 00:06:38,479

then this continues on down with several

171

00:06:42,150 --> 00:06:40,400

more segments and we have you know

172

00:06:44,309 --> 00:06:42,160

probably the equivalent of about a 2 000

173

00:06:46,230 --> 00:06:44,319

square foot home in which we we live and

174

00:06:48,629 --> 00:06:46,240

work every day and then outside of the

175

00:06:49,830 --> 00:06:48,639

space station is a huge structure that

176
00:06:51,990 --> 00:06:49,840
uh has

177
00:06:55,110 --> 00:06:52,000
solar arrays that provide energy and

178
00:06:56,870 --> 00:06:55,120
lots of electronics on board

179
00:06:59,909 --> 00:06:56,880
hey scott if you can after being in

180
00:07:01,350 --> 00:06:59,919
months or in space for 11 months what's

181
00:07:03,430 --> 00:07:01,360
the thing you're most looking forward to

182
00:07:05,189 --> 00:07:03,440
when you get back

183
00:07:08,309 --> 00:07:05,199
you know it's obviously you know it's

184
00:07:10,950 --> 00:07:08,319
it's it's friends family you know human

185
00:07:12,950 --> 00:07:10,960
contact even though we like you know our

186
00:07:15,589 --> 00:07:12,960
fellow crew members it's not a pretty

187
00:07:17,270 --> 00:07:15,599
it's not a large variety of people so

188
00:07:19,830 --> 00:07:17,280

that's uh one thing i really look

189

00:07:21,670 --> 00:07:19,840

forward to but then just being outside i

190

00:07:23,670 --> 00:07:21,680

mean this uh this

191

00:07:27,110 --> 00:07:23,680

space station is amazing it's an

192

00:07:29,350 --> 00:07:27,120

incredible facility but it's all inside

193

00:07:31,270 --> 00:07:29,360

and we never leave and the the lighting

194

00:07:32,950 --> 00:07:31,280

and the you know environmental

195

00:07:36,550 --> 00:07:32,960

conditions are always the same there's

196

00:07:38,710 --> 00:07:36,560

no sun on your face no rain no wind so i

197

00:07:40,870 --> 00:07:38,720

really look forward to being out in a

198

00:07:42,070 --> 00:07:40,880

you know in a large open

199

00:07:44,950 --> 00:07:42,080

space

200

00:07:47,990 --> 00:07:44,960

out in uh you know in nature for lack of

201

00:07:52,950 --> 00:07:48,000

a a better way to describe it

202

00:07:56,629 --> 00:07:54,550

well have a great uh rest of your

203

00:07:59,589 --> 00:07:56,639

mission and tim enjoy the rest of your

204

00:08:01,670 --> 00:07:59,599

time on space station i am very envious

205

00:08:03,110 --> 00:08:01,680

of both of you guys

206

00:08:05,189 --> 00:08:03,120

well yeah it's great talking to you and

207

00:08:07,270 --> 00:08:05,199

mr president thank you uh thank you so

208

00:08:09,990 --> 00:08:07,280

much for coming to the control center

209

00:08:12,629 --> 00:08:10,000

and uh we really really appreciate all

210

00:08:14,790 --> 00:08:12,639

your support that you've given to the

211

00:08:16,390 --> 00:08:14,800

space program

212

00:08:18,150 --> 00:08:16,400

although this isn't the space station

213

00:08:20,150 --> 00:08:18,160

freedom if it wasn't for the space

214

00:08:23,110 --> 00:08:20,160

station freedom this amazing space

215

00:08:25,270 --> 00:08:23,120

station would not exist i believe so

216

00:08:27,350 --> 00:08:25,280

you know this space station and our

217

00:08:31,270 --> 00:08:27,360

space program is part of your legacy as

218

00:08:37,029 --> 00:08:35,190

thank you scott and tim today

219

00:08:38,630 --> 00:08:37,039

i just want to say i appreciate the hard

220

00:08:41,190 --> 00:08:38,640

work you put in every single day up

221

00:08:42,949 --> 00:08:41,200

there and your wonderful ambassadors for

222

00:08:44,310 --> 00:08:42,959

nasa and for our country we'll talk to

223

00:08:45,990 --> 00:08:44,320

you later

224

00:08:48,870 --> 00:08:46,000

thank you ellen

225

00:08:50,150 --> 00:08:48,880

have a great weekend everyone

226

00:08:51,670 --> 00:08:50,160

ready

227

00:08:54,389 --> 00:08:51,680

get a couple of these