



1  
00:00:06,550 --> 00:00:02,230  
station this is houston kevin are you

2  
00:00:11,070 --> 00:00:08,549  
houston yes indeed i'm ready for the

3  
00:00:23,750 --> 00:00:13,749  
wndu-tv this is mission control houston

4  
00:00:28,150 --> 00:00:26,550  
i hear you loud and clear is this trisha

5  
00:00:30,630 --> 00:00:28,160  
this is trisha

6  
00:00:33,670 --> 00:00:30,640  
good to talk to you kevin we're going to

7  
00:00:36,150 --> 00:00:33,680  
start our uh interview now at this time

8  
00:00:39,270 --> 00:00:36,160  
thank you so much for being able to talk

9  
00:00:41,830 --> 00:00:39,280  
to us this is exciting time not only for

10  
00:00:44,630 --> 00:00:41,840  
the fact that as a hoosier native and

11  
00:00:46,950 --> 00:00:44,640  
notre dame grad being in space you also

12  
00:00:49,029 --> 00:00:46,960  
get to cheer on the irish who are now

13  
00:00:51,350 --> 00:00:49,039

bound for the national championship game

14

00:00:55,270 --> 00:00:51,360

how closely are you able to follow the

15

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

well i

16

00:01:01,590 --> 00:00:59,120

it's modern day technology that we have

17

00:01:03,430 --> 00:01:01,600

at nasa nowadays um they sometimes can

18

00:01:06,149 --> 00:01:03,440

pipe up through uh

19

00:01:07,510 --> 00:01:06,159

through the satellite feed um the game's

20

00:01:08,789 --> 00:01:07,520

live especially on the weekends when

21

00:01:11,109 --> 00:01:08,799

we're not doing a lot of business and

22

00:01:13,109 --> 00:01:11,119

there's a little extra data

23

00:01:16,710 --> 00:01:13,119

band pass available

24

00:01:18,950 --> 00:01:16,720

so uh the usc game i stayed up till 4 am

25

00:01:21,270 --> 00:01:18,960

my time to catch the end of that and got

26  
00:01:23,350 --> 00:01:21,280  
to see almost all the game it was it was

27  
00:01:25,030 --> 00:01:23,360  
really great to see of course

28  
00:01:27,990 --> 00:01:25,040  
and i've been following the season

29  
00:01:31,190 --> 00:01:29,510  
well that's wonderful to hear and

30  
00:01:33,429 --> 00:01:31,200  
hopefully you'll get to

31  
00:01:35,910 --> 00:01:33,439  
get to watch the game or follow the game

32  
00:01:37,350 --> 00:01:35,920  
on january 7th as well

33  
00:01:39,510 --> 00:01:37,360  
we are

34  
00:01:42,230 --> 00:01:39,520  
wanting to know what have been your

35  
00:01:44,069 --> 00:01:42,240  
biggest challenges so far aboard the

36  
00:01:49,109 --> 00:01:44,079  
space station you've been up there just

37  
00:01:52,710 --> 00:01:51,350  
well when i arrived

38  
00:01:55,109 --> 00:01:52,720

right after launch i launched on the

39

00:01:57,510 --> 00:01:55,119

23rd of october and arrived at the space

40

00:01:59,510 --> 00:01:57,520

station after two days enroute we did of

41

00:02:01,429 --> 00:01:59,520

course the launch activities and some

42

00:02:03,350 --> 00:02:01,439

burns enroute and a rendezvous and

43

00:02:05,270 --> 00:02:03,360

docking right after we came aboard we

44

00:02:06,789 --> 00:02:05,280

had a lot of really dynamic activities

45

00:02:09,749 --> 00:02:06,799

with the crew who was getting ready to

46

00:02:11,750 --> 00:02:09,759

go home we had a some repairs that we

47

00:02:13,190 --> 00:02:11,760

needed to do outside outside and they

48

00:02:14,790 --> 00:02:13,200

were fully prepared to go out and do a

49

00:02:16,710 --> 00:02:14,800

spacewalk so

50

00:02:18,229 --> 00:02:16,720

that was about two and a half three days

51  
00:02:20,949 --> 00:02:18,239  
of really intense activity to get ready

52  
00:02:23,110 --> 00:02:20,959  
and execute that spacewalk we sent away

53  
00:02:25,350 --> 00:02:23,120  
a spacex vehicle so finished packing it

54  
00:02:27,430 --> 00:02:25,360  
out and deployed it so they can fly back

55  
00:02:29,350 --> 00:02:27,440  
to earth we received this russian

56  
00:02:31,910 --> 00:02:29,360  
progress vehicle as well in those few

57  
00:02:33,430 --> 00:02:31,920  
days and got lots of cargo aboard so for

58  
00:02:35,190 --> 00:02:33,440  
the first two weeks

59  
00:02:37,509 --> 00:02:35,200  
we were really busy with those events

60  
00:02:39,110 --> 00:02:37,519  
plus me handing over from the old cruise

61  
00:02:41,509 --> 00:02:39,120  
so that they could go home and teach me

62  
00:02:43,910 --> 00:02:41,519  
everything i needed to know to be here

63  
00:02:45,910 --> 00:02:43,920

by myself in the u.s segment during the

64

00:02:48,949 --> 00:02:45,920

this uh four week period here until my

65

00:02:52,309 --> 00:02:50,630

for our viewers i think it would be

66

00:02:55,350 --> 00:02:52,319

interesting for them to learn a little

67

00:02:57,509 --> 00:02:55,360

bit more about your research so tell us

68

00:03:01,910 --> 00:02:57,519

most importantly what your basis of your

69

00:03:04,790 --> 00:03:03,589

well there are scientists all over the

70

00:03:06,229 --> 00:03:04,800

world who

71

00:03:08,630 --> 00:03:06,239

really are the brains behind the

72

00:03:10,470 --> 00:03:08,640

research we're doing it's world-class

73

00:03:11,270 --> 00:03:10,480

research and worldwide research if you

74

00:03:14,149 --> 00:03:11,280

will

75

00:03:15,750 --> 00:03:14,159

i just i'm helping execute an experiment

76

00:03:18,390 --> 00:03:15,760

this morning

77

00:03:20,229 --> 00:03:18,400

about binary colloids in space and in

78

00:03:22,390 --> 00:03:20,239

zero gravity they just react very

79

00:03:24,309 --> 00:03:22,400

differently they're very useful in a lot

80

00:03:26,309 --> 00:03:24,319

of machines and mechanisms on earth they

81

00:03:28,949 --> 00:03:26,319

respond to magnetism and stuff in very

82

00:03:31,030 --> 00:03:28,959

interesting ways and in microgravity

83

00:03:32,949 --> 00:03:31,040

it's a completely different ball game so

84

00:03:34,390 --> 00:03:32,959

i can see the monitors running right now

85

00:03:36,470 --> 00:03:34,400

pulsing these

86

00:03:38,949 --> 00:03:36,480

these particles as i speak

87

00:03:40,949 --> 00:03:38,959

we do a lot of medical research

88

00:03:43,350 --> 00:03:40,959

osteoporosis is one of the things that

89

00:03:46,470 --> 00:03:43,360

affects us the way it affects say

90

00:03:48,070 --> 00:03:46,480

elderly people and right now in the

91

00:03:50,470 --> 00:03:48,080

japanese segment there's an interesting

92

00:03:51,990 --> 00:03:50,480

experiment going on with madoka fish who

93

00:03:54,309 --> 00:03:52,000

generate and lose bone in the same way

94

00:03:56,390 --> 00:03:54,319

mammals do and since we're mammals the

95

00:03:58,309 --> 00:03:56,400

what happens to them completely applies

96

00:04:00,229 --> 00:03:58,319

to us so it'll be very useful maybe

97

00:04:01,750 --> 00:04:00,239

someday we can completely eliminate

98

00:04:03,030 --> 00:04:01,760

osteoporosis based on what they're

99

00:04:04,949 --> 00:04:03,040

studying

100

00:04:08,070 --> 00:04:04,959

well that makes me think about you and

101  
00:04:10,470 --> 00:04:08,080  
your body in space how are you doing up

102  
00:04:16,629 --> 00:04:10,480  
there and are you able to conduct your

103  
00:04:21,590 --> 00:04:19,349  
well you know what we have absolutely

104  
00:04:23,990 --> 00:04:21,600  
outstanding uh

105  
00:04:25,670 --> 00:04:24,000  
physical training equipment up here now

106  
00:04:28,550 --> 00:04:25,680  
right next to me here it might be out of

107  
00:04:31,350 --> 00:04:28,560  
your field of view but as a as a

108  
00:04:33,670 --> 00:04:31,360  
cycle or gometer if you will mounted

109  
00:04:35,590 --> 00:04:33,680  
on some some springs so it doesn't

110  
00:04:37,670 --> 00:04:35,600  
impact the microgravity on the space

111  
00:04:40,230 --> 00:04:37,680  
station so when we move around it it

112  
00:04:42,310 --> 00:04:40,240  
vibrates and uh and it doesn't impact

113  
00:04:44,070 --> 00:04:42,320

that so i did that this morning and we

114

00:04:45,990 --> 00:04:44,080

also have a weightlifting machine we

115

00:04:49,030 --> 00:04:46,000

don't weights don't work here but we

116

00:04:50,310 --> 00:04:49,040

have ways of pushing against pistons

117

00:04:52,070 --> 00:04:50,320

that are pushing against the air

118

00:04:53,670 --> 00:04:52,080

pressure in the cabin and with

119

00:04:55,590 --> 00:04:53,680

mechanical advantage you can lift up to

120

00:04:57,749 --> 00:04:55,600

600 pounds on that machine so great

121

00:04:59,510 --> 00:04:57,759

workouts on those and we have a

122

00:05:02,950 --> 00:04:59,520

treadmill that we can run on as well the

123

00:05:05,590 --> 00:05:02,960

t2 cold bear treadmill so with bungees

124

00:05:07,590 --> 00:05:05,600

holding us down so that's great training

125

00:05:09,270 --> 00:05:07,600

for us we have physical trainers at home

126  
00:05:10,870 --> 00:05:09,280  
that send up prescriptions and we have

127  
00:05:13,029 --> 00:05:10,880  
to do what they say and throughout the

128  
00:05:14,710 --> 00:05:13,039  
the mission they'll continue to build me

129  
00:05:16,629 --> 00:05:14,720  
up so that i'll keep my bone mass and my

130  
00:05:18,390 --> 00:05:16,639  
muscle mass for uh so i'll be ready for

131  
00:05:20,310 --> 00:05:18,400  
return

132  
00:05:22,070 --> 00:05:20,320  
you've given me a guilt trip because i

133  
00:05:24,310 --> 00:05:22,080  
should be working out more especially

134  
00:05:29,350 --> 00:05:24,320  
after thanksgiving did you get to enjoy

135  
00:05:32,710 --> 00:05:30,950  
yes we did

136  
00:05:36,070 --> 00:05:32,720  
they put up for us

137  
00:05:38,710 --> 00:05:36,080  
smoked turkey we had some cranberry some

138  
00:05:41,670 --> 00:05:38,720

dressing

139

00:05:43,430 --> 00:05:41,680

corn if you will we had yams candied

140

00:05:45,350 --> 00:05:43,440

yams previous crewmate left some

141

00:05:47,590 --> 00:05:45,360

marshmallow behind so we could put some

142

00:05:49,749 --> 00:05:47,600

marshmallows on the candy dams we have a

143

00:05:51,830 --> 00:05:49,759

food heater to warm things up

144

00:05:53,430 --> 00:05:51,840

we don't have a lot of refrigeration but

145

00:05:55,029 --> 00:05:53,440

occasionally we can refrigerate some

146

00:05:56,790 --> 00:05:55,039

drinks or something to have them cold

147

00:05:59,350 --> 00:05:56,800

usually room temperature or hot is the

148

00:06:01,670 --> 00:05:59,360

way we go but the uh

149

00:06:03,270 --> 00:06:01,680

at the current time i'm just here as the

150

00:06:05,430 --> 00:06:03,280

only u.s crew member and i have two

151  
00:06:07,430 --> 00:06:05,440  
russian cosmonaut colleagues

152  
00:06:09,590 --> 00:06:07,440  
at work in the russian segment today and

153  
00:06:11,670 --> 00:06:09,600  
we got together and i brought the food

154  
00:06:13,270 --> 00:06:11,680  
back and they they really enjoyed having

155  
00:06:15,189 --> 00:06:13,280  
some of it they really like cobbler for

156  
00:06:16,230 --> 00:06:15,199  
example and they surprisingly really

157  
00:06:18,790 --> 00:06:16,240  
loved the

158  
00:06:20,309 --> 00:06:18,800  
corn the cornbread stuffing i thought

159  
00:06:21,270 --> 00:06:20,319  
was interesting so they enjoyed that

160  
00:06:23,510 --> 00:06:21,280  
with me

161  
00:06:26,309 --> 00:06:23,520  
well that's one of my favorites too

162  
00:06:31,029 --> 00:06:26,319  
what do you miss the most about earth

163  
00:06:35,270 --> 00:06:33,189

well being up here for a long time you

164

00:06:37,029 --> 00:06:35,280

know one of the fun things about getting

165

00:06:39,670 --> 00:06:37,039

here is the zero gravity and floating

166

00:06:42,230 --> 00:06:39,680

around but it also makes things very

167

00:06:44,390 --> 00:06:42,240

difficult this morning i had to take

168

00:06:46,950 --> 00:06:44,400

some books apart and put new pages in

169

00:06:49,350 --> 00:06:46,960

the books and when you open them up the

170

00:06:51,350 --> 00:06:49,360

pages just fly away so i went near a

171

00:06:53,909 --> 00:06:51,360

vent and it kind of held them in place

172

00:06:55,990 --> 00:06:53,919

an inlet vent because sometimes gravity

173

00:06:57,909 --> 00:06:56,000

is really your friend and of course we

174

00:06:59,749 --> 00:06:57,919

we're totally experienced in gravity

175

00:07:01,589 --> 00:06:59,759

that's all we know for the most part so

176

00:07:03,670 --> 00:07:01,599

when you get up here it makes things fun

177

00:07:05,589 --> 00:07:03,680

but it also makes things very difficult

178

00:07:07,909 --> 00:07:05,599

and then of course you know it's a it's

179

00:07:10,070 --> 00:07:07,919

a metallic plastic environment up here

180

00:07:12,629 --> 00:07:10,080

so you miss this the sights and the

181

00:07:14,950 --> 00:07:12,639

smells of home and of course so many

182

00:07:17,510 --> 00:07:14,960

faces we we get to see each other and my

183

00:07:19,670 --> 00:07:17,520

crewmates are like brothers to me but to

184

00:07:21,510 --> 00:07:19,680

see a lot of people is is a rare thing

185

00:07:23,350 --> 00:07:21,520

so you kind of miss social interaction

186

00:07:26,309 --> 00:07:23,360

and you miss the environment of earth

187

00:07:27,990 --> 00:07:26,319

which you know we were really built for

188

00:07:29,909 --> 00:07:28,000

we have some viewer questions from

189

00:07:30,790 --> 00:07:29,919

facebook i'd like to ask you at this

190

00:07:33,350 --> 00:07:30,800

time

191

00:07:35,589 --> 00:07:33,360

mike has this question there is a big

192

00:07:37,749 --> 00:07:35,599

push to go beyond our planet do you

193

00:07:39,749 --> 00:07:37,759

think mankind will someday populate a

194

00:07:43,670 --> 00:07:39,759

moon or another planet in our solar

195

00:07:48,070 --> 00:07:45,830

some days a long time and i absolutely

196

00:07:51,189 --> 00:07:48,080

think they will um one of the things i'm

197

00:07:52,230 --> 00:07:51,199

so proud about is that we're taking uh

198

00:07:54,309 --> 00:07:52,240

you know

199

00:07:56,550 --> 00:07:54,319

some of the countries who can afford it

200

00:07:58,309 --> 00:07:56,560

the most affluent countries on the world

201  
00:07:59,990 --> 00:07:58,319  
are doing something for the future

202  
00:08:02,230 --> 00:08:00,000  
whether it's 200 years from now or

203  
00:08:04,550 --> 00:08:02,240  
whether it's 600 years from now this is

204  
00:08:06,710 --> 00:08:04,560  
the start that we're taking and some

205  
00:08:08,629 --> 00:08:06,720  
someday we will go to other places to

206  
00:08:11,110 --> 00:08:08,639  
live and um

207  
00:08:13,589 --> 00:08:11,120  
there's no no question about it it's a

208  
00:08:15,589 --> 00:08:13,599  
necessity actually if humankind wants to

209  
00:08:17,749 --> 00:08:15,599  
survive forever more so

210  
00:08:19,589 --> 00:08:17,759  
i think that's going to happen

211  
00:08:21,270 --> 00:08:19,599  
here's one more question from tara do

212  
00:08:23,510 --> 00:08:21,280  
you think the u.s will ever have a

213  
00:08:25,270 --> 00:08:23,520

manned shuttle program again or will the

214

00:08:31,189 --> 00:08:25,280

future of space travel be an

215

00:08:35,750 --> 00:08:33,589

well i hope it's always an international

216

00:08:37,750 --> 00:08:35,760

effort all the international partners

217

00:08:39,269 --> 00:08:37,760

can bring a lot to the plate space

218

00:08:41,750 --> 00:08:39,279

travel is very complicated there are a

219

00:08:43,589 --> 00:08:41,760

lot of elements involved there's supply

220

00:08:44,550 --> 00:08:43,599

delivery there are

221

00:08:46,470 --> 00:08:44,560

you know

222

00:08:48,389 --> 00:08:46,480

experiments that having all the

223

00:08:51,509 --> 00:08:48,399

brightest minds around the planet can

224

00:08:54,389 --> 00:08:51,519

can bring can bring to the plate uh just

225

00:08:57,110 --> 00:08:54,399

things just advancing the cause of space

226

00:08:58,630 --> 00:08:57,120

exploration we need all those ideas and

227

00:09:01,590 --> 00:08:58,640

right now this international space

228

00:09:03,110 --> 00:09:01,600

station all the partners uh come

229

00:09:05,350 --> 00:09:03,120

together and supply us with the

230

00:09:08,150 --> 00:09:05,360

capability we built this space station

231

00:09:11,269 --> 00:09:08,160

using the canadarm2 supplied by canada

232

00:09:12,949 --> 00:09:11,279

the um the power is uh for the most part

233

00:09:15,190 --> 00:09:12,959

all supplied by

234

00:09:17,670 --> 00:09:15,200

the us and the com system is supplied by

235

00:09:19,910 --> 00:09:17,680

the us cargo delivery now starting to be

236

00:09:22,310 --> 00:09:19,920

supplied and from u.s

237

00:09:24,630 --> 00:09:22,320

commercial vendors and also our russian

238

00:09:26,389 --> 00:09:24,640

partners our crew transportation right

239

00:09:27,750 --> 00:09:26,399

now as russian provided so it's good

240

00:09:29,990 --> 00:09:27,760

that all these elements come together to

241

00:09:31,670 --> 00:09:30,000

make what the space station is i think

242

00:09:33,350 --> 00:09:31,680

we'll have a shuttle program to get to

243

00:09:35,350 --> 00:09:33,360

and from low earth orbit again someday

244

00:09:37,670 --> 00:09:35,360

but what form it'll take

245

00:09:40,470 --> 00:09:37,680

because your guess is as good as mine

246

00:09:45,269 --> 00:09:40,480

kevin thank you for your time today go

247

00:09:50,070 --> 00:09:47,829

yeah okay go irish and play like a

248

00:09:51,670 --> 00:09:50,080

champion and i try i like to live by

249

00:09:53,030 --> 00:09:51,680

that up here to playing like a champion

250

00:09:57,269 --> 00:09:53,040

on board so

251  
00:10:01,110 --> 00:09:57,279  
great to hear from you at wndu trisha

252  
00:10:05,990 --> 00:10:03,269  
station this is houston acr that

253  
00:10:08,150 --> 00:10:06,000  
concludes the wndu tv portion of the

254  
00:10:10,949 --> 00:10:08,160  
event please stand by for a voice check

255  
00:10:13,110 --> 00:10:10,959  
from the observer

256  
00:10:16,550 --> 00:10:13,120  
station this is the observer how do you

257  
00:10:20,710 --> 00:10:18,790  
i hear you loud and clear and i get

258  
00:10:22,310 --> 00:10:20,720  
observer emails but i don't get to as

259  
00:10:24,150 --> 00:10:22,320  
much chance to read them right now how

260  
00:10:27,030 --> 00:10:24,160  
are you doing down there and uh at notre

261  
00:10:28,389 --> 00:10:27,040  
dame uh we're doing well it's uh it's

262  
00:10:32,550 --> 00:10:28,399  
good to have a good football team as you

263  
00:10:36,069 --> 00:10:34,069

yeah it's a lot of fun it makes the

264

00:10:38,310 --> 00:10:36,079

season great i love college football

265

00:10:40,230 --> 00:10:38,320

season anyway but it's really special

266

00:10:42,069 --> 00:10:40,240

this year uh especially watching the

267

00:10:43,829 --> 00:10:42,079

games from in space

268

00:10:45,030 --> 00:10:43,839

yeah that was actually gonna be my first

269

00:10:48,230 --> 00:10:45,040

question you've been able to follow the

270

00:10:51,509 --> 00:10:48,240

games i i i gather and watch the the usc

271

00:10:56,310 --> 00:10:53,990

we have a high data rate com system

272

00:10:57,910 --> 00:10:56,320

that on weekends is not all tied up with

273

00:10:59,990 --> 00:10:57,920

passing uh

274

00:11:02,230 --> 00:11:00,000

you know scientific data and stuff and

275

00:11:03,750 --> 00:11:02,240

they pump a little bit of tv up here on

276

00:11:06,710 --> 00:11:03,760

it it's not the best quality but i can

277

00:11:08,630 --> 00:11:06,720

follow what's going on for sure

278

00:11:11,430 --> 00:11:08,640

um

279

00:11:13,110 --> 00:11:11,440

do you have any sort of uh notre dame

280

00:11:17,190 --> 00:11:13,120

memorabilia or anything up there with

281

00:11:22,470 --> 00:11:20,069

yeah i actually had the

282

00:11:24,550 --> 00:11:22,480

aeronautics and astronaut

283

00:11:27,269 --> 00:11:24,560

aerospace and mechanical engineering

284

00:11:29,190 --> 00:11:27,279

department ame department uh supply me

285

00:11:31,350 --> 00:11:29,200

with a little token that's kind of a

286

00:11:34,550 --> 00:11:31,360

memorabilia and i brought up a little uh

287

00:11:37,110 --> 00:11:34,560

god country notre dame coin along and a

288

00:11:38,630 --> 00:11:37,120

class ring for me and my daughter who i

289

00:11:40,790 --> 00:11:38,640

have a son and daughter who are also

290

00:11:43,829 --> 00:11:40,800

notre dame grads and

291

00:11:46,949 --> 00:11:43,839

then a small wardrobe of notre dame uh

292

00:11:49,750 --> 00:11:46,959

notre dame shirts and memorabilia

293

00:11:50,550 --> 00:11:49,760

um going back a little bit um

294

00:11:53,110 --> 00:11:50,560

you know

295

00:11:54,710 --> 00:11:53,120

from notre dame what sort of lessons

296

00:11:55,990 --> 00:11:54,720

from your education and time here at

297

00:11:57,110 --> 00:11:56,000

notre dame have stuck with you

298

00:12:01,269 --> 00:11:57,120

throughout your

299

00:12:04,790 --> 00:12:03,110

well that you never know what's going to

300

00:12:05,670 --> 00:12:04,800

be important to you sometime down the

301  
00:12:07,430 --> 00:12:05,680  
road

302  
00:12:10,550 --> 00:12:07,440  
you know this is an international

303  
00:12:12,150 --> 00:12:10,560  
program so courses i had in the social

304  
00:12:14,069 --> 00:12:12,160  
sciences

305  
00:12:15,670 --> 00:12:14,079  
a funny thing that happened to me senior

306  
00:12:17,590 --> 00:12:15,680  
year was i found out late that i needed

307  
00:12:19,750 --> 00:12:17,600  
one more social science because i was an

308  
00:12:22,629 --> 00:12:19,760  
engineering graduate and the one that

309  
00:12:25,190 --> 00:12:22,639  
fit just happened to be intro to russian

310  
00:12:27,190 --> 00:12:25,200  
and i took intro to russian and i speak

311  
00:12:29,190 --> 00:12:27,200  
russian now on a daily basis up here in

312  
00:12:31,350 --> 00:12:29,200  
space with my russian colleagues

313  
00:12:33,990 --> 00:12:31,360

uh you know all the branches of

314

00:12:36,310 --> 00:12:34,000

education are important to you but

315

00:12:37,430 --> 00:12:36,320

of course of course the major major is

316

00:12:39,590 --> 00:12:37,440

important to

317

00:12:41,509 --> 00:12:39,600

what you want to do as well and then i

318

00:12:43,590 --> 00:12:41,519

would just add to it you never know

319

00:12:46,069 --> 00:12:43,600

where you're going to end up for sure in

320

00:12:48,069 --> 00:12:46,079

a career field so any education is great

321

00:12:50,550 --> 00:12:48,079

education

322

00:12:52,069 --> 00:12:50,560

was uh was being an astronaut sort of a

323

00:12:54,150 --> 00:12:52,079

lifelong dream for you obviously you're

324

00:12:56,150 --> 00:12:54,160

an aerospace engineer but did you did

325

00:13:00,389 --> 00:12:56,160

you know you wanted to do this um from

326

00:13:04,629 --> 00:13:02,629

well i you know i i suppose i kind of

327

00:13:06,470 --> 00:13:04,639

feel like a lot of kids you know there

328

00:13:07,910 --> 00:13:06,480

are a lot of a lot of jobs out there you

329

00:13:09,269 --> 00:13:07,920

just think are really cool when you see

330

00:13:10,310 --> 00:13:09,279

people doing them

331

00:13:12,230 --> 00:13:10,320

and

332

00:13:13,269 --> 00:13:12,240

you know an astronaut was always one of

333

00:13:15,670 --> 00:13:13,279

them that

334

00:13:17,590 --> 00:13:15,680

seemed special to me i never really

335

00:13:19,590 --> 00:13:17,600

thought that it was a possibility

336

00:13:21,190 --> 00:13:19,600

because i knew the numbers were so small

337

00:13:23,750 --> 00:13:21,200

but i did know i wanted to be in

338

00:13:26,550 --> 00:13:23,760

aviation and be in engineering and i

339

00:13:28,550 --> 00:13:26,560

i was an air force pilot and became an

340

00:13:31,110 --> 00:13:28,560

air force test pilot and from there it

341

00:13:33,509 --> 00:13:31,120

was kind of a next step because the

342

00:13:35,829 --> 00:13:33,519

space shuttle is is really kind of the

343

00:13:37,590 --> 00:13:35,839

the top of the line really cool flying

344

00:13:39,269 --> 00:13:37,600

machine if you will so that's why i

345

00:13:42,470 --> 00:13:39,279

ended up applying to the space shuttle

346

00:13:43,829 --> 00:13:42,480

program and and being an astronaut

347

00:13:46,629 --> 00:13:43,839

um

348

00:13:48,230 --> 00:13:46,639

what sort of uh

349

00:13:50,470 --> 00:13:48,240

what sort of surprised you about being

350

00:13:52,150 --> 00:13:50,480

in space um i mean i'm sure you've been

351

00:13:53,670 --> 00:13:52,160

training for this for for a long long

352

00:13:58,790 --> 00:13:53,680

time but is there anything that sort of

353

00:14:04,949 --> 00:14:01,750

well um i make little mistakes all the

354

00:14:06,870 --> 00:14:04,959

time being in zero gravity and uh things

355

00:14:09,990 --> 00:14:06,880

things surprise me things float away

356

00:14:13,509 --> 00:14:10,000

from you uh very quietly

357

00:14:15,910 --> 00:14:13,519

um you learn as you get here after

358

00:14:17,829 --> 00:14:15,920

you've been here a few weeks you kind of

359

00:14:19,350 --> 00:14:17,839

forget about where the floor is and

360

00:14:21,189 --> 00:14:19,360

where the walls are in the ceiling are

361

00:14:23,430 --> 00:14:21,199

and you can just operate kind of in any

362

00:14:25,670 --> 00:14:23,440

orientation and be happy there so it

363

00:14:28,310 --> 00:14:25,680

kind of surprises me how your mind

364

00:14:30,310 --> 00:14:28,320

adapts to that which way to turn passing

365

00:14:32,949 --> 00:14:30,320

through modules and everything whether

366

00:14:35,509 --> 00:14:32,959

whether you're in any orientation and

367

00:14:37,829 --> 00:14:35,519

the other thing that surprises you is is

368

00:14:40,470 --> 00:14:37,839

just how bright blue the beautiful earth

369

00:14:43,110 --> 00:14:40,480

is out there every time you see it

370

00:14:45,670 --> 00:14:43,120

it's uh it just it just glows it's like

371

00:14:49,110 --> 00:14:45,680

it's neon so it's uh it's the surprising

372

00:14:51,670 --> 00:14:49,120

view for with that with your own eyes

373

00:14:54,069 --> 00:14:51,680

um how long are you going to be on this

374

00:14:58,629 --> 00:14:54,079

station and what what are your maybe top

375

00:15:02,629 --> 00:15:01,030

well my top goals are to serve the

376

00:15:04,710 --> 00:15:02,639

increment manager and the science

377

00:15:07,750 --> 00:15:04,720

program there are people on the ground

378

00:15:10,069 --> 00:15:07,760

who put together my daily schedule and

379

00:15:12,310 --> 00:15:10,079

today i'm conducting an experiment with

380

00:15:15,030 --> 00:15:12,320

huntsville alabama called in space it's

381

00:15:17,030 --> 00:15:15,040

about binary colloids in space and so

382

00:15:19,350 --> 00:15:17,040

day to day i do maintenance and take

383

00:15:21,110 --> 00:15:19,360

care of the space station

384

00:15:22,870 --> 00:15:21,120

as the increment managers and flight

385

00:15:23,990 --> 00:15:22,880

directors direct me to do so i'm really

386

00:15:28,710 --> 00:15:24,000

just the

387

00:15:30,230 --> 00:15:28,720

the people around the world who

388

00:15:32,069 --> 00:15:30,240

who put these experiments together and

389

00:15:33,910 --> 00:15:32,079

decide what we want to do in space i'll

390

00:15:36,550 --> 00:15:33,920

be up here until

391

00:15:38,870 --> 00:15:36,560

the middle of march is the plan maybe

392

00:15:40,790 --> 00:15:38,880

longer you never know so

393

00:15:41,670 --> 00:15:40,800

keep my fingers crossed i do enjoy being

394

00:15:43,269 --> 00:15:41,680

up here

395

00:15:47,350 --> 00:15:43,279

so it'll be a total of about a five

396

00:15:51,749 --> 00:15:48,790

um

397

00:15:52,829 --> 00:15:51,759

i suppose uh what's a an average

398

00:15:55,670 --> 00:15:52,839

along those

399

00:16:01,990 --> 00:15:55,680

lines is an average day mostly work do

400

00:16:08,069 --> 00:16:05,509

i would say my recreation time in a day

401  
00:16:10,389 --> 00:16:08,079  
so far has been pretty limited maybe two

402  
00:16:12,550 --> 00:16:10,399  
like an hour a day my recreation is

403  
00:16:14,949 --> 00:16:12,560  
usually watching a video or a tv show

404  
00:16:16,949 --> 00:16:14,959  
while i'm on a treadmill or while i'm on

405  
00:16:19,350 --> 00:16:16,959  
an exercise machine so we get a two and

406  
00:16:21,590 --> 00:16:19,360  
a half hours a day of exercise and we

407  
00:16:23,590 --> 00:16:21,600  
kind of consider that recreation and

408  
00:16:25,990 --> 00:16:23,600  
then we were scheduled for six and a

409  
00:16:28,069 --> 00:16:26,000  
half hours of activities and then with

410  
00:16:29,749 --> 00:16:28,079  
meals and getting ready for conferences

411  
00:16:31,829 --> 00:16:29,759  
and collecting things and just taking

412  
00:16:34,069 --> 00:16:31,839  
care of yourself and getting a good

413  
00:16:36,230 --> 00:16:34,079

night's sleep it fills the day so not a

414

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

lot of recreation right now but i did

415

00:16:39,749 --> 00:16:38,639

stay up until 4 a.m on saturday night my

416

00:16:42,069 --> 00:16:39,759

time

417

00:16:44,150 --> 00:16:42,079

to watch that west coast game of notre

418

00:16:46,629 --> 00:16:44,160

dame against usc up here live i watched

419

00:16:47,910 --> 00:16:46,639

it to the very end and it was fantastic

420

00:16:49,110 --> 00:16:47,920

you guys must be really having a good

421

00:16:52,150 --> 00:16:49,120

time with that

422

00:16:54,550 --> 00:16:52,160

uh we we sure are um

423

00:16:56,389 --> 00:16:54,560

it's been it's been fun and for for a

424

00:17:00,310 --> 00:16:56,399

senior this is couldn't ask for a better

425

00:17:00,320 --> 00:17:05,510

um one last question for you

426

00:17:13,029 --> 00:17:07,990

uh what message do you have to current

427

00:17:18,230 --> 00:17:15,510

you know i i would say um

428

00:17:20,549 --> 00:17:18,240

i feel very very lucky to be in this job

429

00:17:22,230 --> 00:17:20,559

i know it's a very unique job uh one of

430

00:17:24,150 --> 00:17:22,240

the things that that makes me sad is

431

00:17:25,590 --> 00:17:24,160

that more people can't come

432

00:17:27,270 --> 00:17:25,600

off the planet and see what it looks

433

00:17:29,750 --> 00:17:27,280

like and and what a space station is

434

00:17:32,230 --> 00:17:29,760

like and live out here and

435

00:17:34,150 --> 00:17:32,240

i never expected to be able to be here i

436

00:17:36,150 --> 00:17:34,160

applied for the astronaut program many

437

00:17:39,350 --> 00:17:36,160

times and was rejected

438

00:17:40,710 --> 00:17:39,360

and finally when i was 40 years old i

439

00:17:42,870 --> 00:17:40,720

just happened to

440

00:17:44,870 --> 00:17:42,880

to fall into a slot and get selected now

441

00:17:47,430 --> 00:17:44,880

i'm now i'm over 50 and finally flying

442

00:17:49,590 --> 00:17:47,440

in space so you know persistence is a

443

00:17:50,549 --> 00:17:49,600

big is a big thing if you really want

444

00:17:53,029 --> 00:17:50,559

something

445

00:17:55,190 --> 00:17:53,039

find find good ways to go after it if a

446

00:17:56,710 --> 00:17:55,200

door closes for you you know find

447

00:17:58,710 --> 00:17:56,720

another door that you would love to go

448

00:18:00,630 --> 00:17:58,720

in and try that too and you never know

449

00:18:01,990 --> 00:18:00,640

where you'll end up in life so

450

00:18:03,510 --> 00:18:02,000

appreciate all the classes you're

451  
00:18:05,190 --> 00:18:03,520  
getting when i look back on my career at

452  
00:18:06,070 --> 00:18:05,200  
notre dame i think of all those classes

453  
00:18:08,470 --> 00:18:06,080  
i had

454  
00:18:11,190 --> 00:18:08,480  
and how how many of them came into play

455  
00:18:13,029 --> 00:18:11,200  
later that i never expected would so

456  
00:18:14,630 --> 00:18:13,039  
that would be my message to the students

457  
00:18:16,230 --> 00:18:14,640  
and and you got to get it out of the

458  
00:18:18,070 --> 00:18:16,240  
book so keep keep in there and keep

459  
00:18:21,190 --> 00:18:18,080  
studying spend some time in the library

460  
00:18:24,549 --> 00:18:21,200  
in a carol like i used to

461  
00:18:26,470 --> 00:18:24,559  
well i appreciate it um we'll uh

462  
00:18:28,950 --> 00:18:26,480  
we'll keep sending out those emails and

463  
00:18:30,710 --> 00:18:28,960

if you get a free free uh

464

00:18:36,070 --> 00:18:30,720

free moment it'd be nice to know that an

465

00:18:39,830 --> 00:18:38,310

it's it's great i've been i've been i

466

00:18:41,590 --> 00:18:39,840

love the fact that you guys send those

467

00:18:43,110 --> 00:18:41,600

out and i love keeping up with what's

468

00:18:45,029 --> 00:18:43,120

going on on campus not just the course

469

00:18:46,549 --> 00:18:45,039

of sports but all the other things you

470

00:18:48,950 --> 00:18:46,559

guys are experiencing too because it is

471

00:18:51,110 --> 00:18:48,960

like it is like home for me we just flew

472

00:18:53,350 --> 00:18:51,120

over south bend just about uh one orbit

473

00:18:55,750 --> 00:18:53,360

ago by the way made it almost direct

474

00:18:58,070 --> 00:18:55,760

pass overhead it was still uh dark hours

475

00:18:59,590 --> 00:18:58,080

i think on the ground for you so

476

00:19:01,029 --> 00:18:59,600

nothing visible but

477

00:19:03,029 --> 00:19:01,039

we'll i'll keep my eye out and try to

478

00:19:04,070 --> 00:19:03,039

get a shot of the dome sometime

479

00:19:08,630 --> 00:19:04,080

all right

480

00:19:11,830 --> 00:19:10,390

you're welcome and i always have to just

481

00:19:13,669 --> 00:19:11,840

go upside down and finish out the

482

00:19:15,830 --> 00:19:13,679

conference i'll turn around and show you

483

00:19:21,110 --> 00:19:15,840

my best side you guys take care of notre

484

00:19:28,310 --> 00:19:23,669

station this is houston acr thank you

485

00:19:34,310 --> 00:19:30,630

houston acr thank you very much i think

486

00:19:38,070 --> 00:19:36,150

thank you wndu tv and the observer