



1
00:00:07,749 --> 00:00:03,110
station this is houston are you ready

2
00:00:07,759 --> 00:00:12,310
yes houston i am ready for the event

3
00:00:16,630 --> 00:00:14,549
university of the south pacific this is

4
00:00:23,109 --> 00:00:16,640
houston please call the station for a

5
00:00:28,070 --> 00:00:25,750
station this is miss from

6
00:00:33,990 --> 00:00:28,080
at the university of the south pacific

7
00:00:34,000 --> 00:00:50,869
i read you loud and clear

8
00:01:27,350 --> 00:01:23,590
ah

9
00:01:30,149 --> 00:01:27,360
college

10
00:01:34,710 --> 00:01:30,159
today we have a student from subway

11
00:01:38,870 --> 00:01:34,720
sangam college with some questions

12
00:01:38,880 --> 00:01:47,990
thank you very much euroscope

13
00:01:51,190 --> 00:01:49,670

we would like to

14

00:01:55,510 --> 00:01:51,200

start

15

00:01:55,520 --> 00:01:59,590

first question please katharine

16

00:02:03,670 --> 00:02:01,670

konichiwa furukawa

17

00:02:05,590 --> 00:02:03,680

my name is catherine

18

00:02:08,469 --> 00:02:05,600

my question is

19

00:02:13,430 --> 00:02:08,479

after spending a few months in space

20

00:02:18,710 --> 00:02:15,910

okay catherine thank you for the good

21

00:02:21,589 --> 00:02:18,720

question i feel very well

22

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

and my body got accustomed to

23

00:02:27,589 --> 00:02:23,680

microgravity environment

24

00:02:30,550 --> 00:02:27,599

and we together with uh my co-workers

25

00:02:43,509 --> 00:02:30,560

keep working hard on board the iss

26

00:02:43,519 --> 00:02:49,589

next question big surprise

27

00:02:59,270 --> 00:02:52,470

my name is rikta and this is my question

28

00:03:05,589 --> 00:03:03,270

that's a good question the answer is no

29

00:03:06,630 --> 00:03:05,599

because right now we have three crew

30

00:03:10,790 --> 00:03:06,640

members

31

00:03:13,990 --> 00:03:10,800

from us russia and japan and we

32

00:03:17,509 --> 00:03:14,000

live and work together like a family

33

00:03:20,229 --> 00:03:17,519

plus the the the work on body iss is

34

00:03:22,949 --> 00:03:20,239

really worth doing we conduct wide

35

00:03:26,390 --> 00:03:22,959

variety of experiments using the special

36

00:03:35,670 --> 00:03:26,400

environment in space like microgravity

37

00:03:35,680 --> 00:03:42,869

next question noah please

38

00:03:42,879 --> 00:03:45,350

my name

39

00:03:47,750 --> 00:03:46,149

and my is

40

00:03:51,030 --> 00:03:47,760

is

41

00:04:01,750 --> 00:03:51,040

stay

42

00:04:01,760 --> 00:04:11,190

i'm sorry would you repeat the question

43

00:04:14,949 --> 00:04:13,830

which do you think is a better place to

44

00:04:24,390 --> 00:04:14,959

stay

45

00:04:24,400 --> 00:04:41,590

i'm sorry you mentioned space station

46

00:04:51,270 --> 00:04:43,909

i i am very sorry but could you repeat

47

00:05:01,749 --> 00:04:54,469

which do you think is a better place to

48

00:05:07,749 --> 00:05:04,629

i see i i see your question thank you

49

00:05:09,189 --> 00:05:07,759

that's a very interesting question

50

00:05:14,150 --> 00:05:09,199

i would say

51
00:05:16,550 --> 00:05:14,160
space station is better because uh here

52
00:05:19,830 --> 00:05:16,560
under microgravity you do not need to

53
00:05:21,749 --> 00:05:19,840
walk you can just fly around by pushing

54
00:05:23,189 --> 00:05:21,759
a wall like this

55
00:05:25,270 --> 00:05:23,199
you can fly

56
00:05:27,749 --> 00:05:25,280
and plus a view

57
00:05:30,550 --> 00:05:27,759
from a window of a space station is

58
00:05:32,870 --> 00:05:30,560
breathtaking uh during the daytime you

59
00:05:36,469 --> 00:05:32,880
can see uh blues

60
00:05:37,510 --> 00:05:36,479
ocean green forest brown land

61
00:05:40,550 --> 00:05:37,520
and

62
00:05:43,350 --> 00:05:40,560
nighttime you can see city night views

63
00:05:44,870 --> 00:05:43,360

in addition you can see a wide variety

64

00:05:47,749 --> 00:05:44,880

of lightning

65

00:05:50,310 --> 00:05:47,759

plus sometimes you can see aurora in the

66

00:06:00,150 --> 00:05:50,320

polar regions

67

00:06:06,710 --> 00:06:03,670

next question as another priest

68

00:06:09,590 --> 00:06:06,720

kanichiwa furukawa

69

00:06:11,670 --> 00:06:09,600

and my question is how do you work as a

70

00:06:15,749 --> 00:06:11,680

team with other races in the space

71

00:06:21,510 --> 00:06:18,390

okay that's a very good question

72

00:06:24,150 --> 00:06:21,520

of course there are differences based on

73

00:06:26,710 --> 00:06:24,160

language culture and so on

74

00:06:29,830 --> 00:06:26,720

and i think it is important to accept

75

00:06:32,790 --> 00:06:29,840

the differences and pay respect to them

76
00:06:35,430 --> 00:06:32,800
and plus i think human beings are

77
00:06:40,150 --> 00:06:35,440
essentially the same all over the world

78
00:06:40,950 --> 00:06:40,160
so we enjoy living and working together

79
00:06:43,189 --> 00:06:40,960
with

80
00:06:51,589 --> 00:06:43,199
crew members from different countries

81
00:06:57,670 --> 00:06:54,870
next question rsa please

82
00:07:00,710 --> 00:06:57,680
connect you are full custom my name is

83
00:07:03,510 --> 00:07:00,720
alexi and my question is

84
00:07:09,749 --> 00:07:03,520
what kind of food do you eat and how do

85
00:07:14,309 --> 00:07:12,710
that's an interesting question i have a

86
00:07:15,670 --> 00:07:14,319
couple of food

87
00:07:18,070 --> 00:07:15,680
samples

88
00:07:20,870 --> 00:07:18,080

here's grilled chicken

89

00:07:25,430 --> 00:07:20,880

it is in a pouch and when you open the

90

00:07:31,189 --> 00:07:28,150

here's a spicy green beans it is

91

00:07:35,110 --> 00:07:31,199

freeze-dried for long time preservation

92

00:07:37,430 --> 00:07:35,120

you need to add hot water and wait for

93

00:07:39,430 --> 00:07:37,440

15 minutes for this

94

00:07:41,830 --> 00:07:39,440

and ready to eat

95

00:07:43,270 --> 00:07:41,840

these are very tasty

96

00:07:46,469 --> 00:07:43,280

and also

97

00:07:49,749 --> 00:07:46,479

here's another example of russian food

98

00:07:52,309 --> 00:07:49,759

canned food this is meat in white sauce

99

00:07:53,830 --> 00:07:52,319

this is also very tasty

100

00:07:55,270 --> 00:07:53,840

and we

101
00:07:57,430 --> 00:07:55,280
together with

102
00:07:59,990 --> 00:07:57,440
russian crew mate eat

103
00:08:02,629 --> 00:08:00,000
meals together almost every day and

104
00:08:04,150 --> 00:08:02,639
sometimes we exchange food and enjoy

105
00:08:05,189 --> 00:08:04,160
meal

106
00:08:08,469 --> 00:08:05,199
thank you

107
00:08:11,430 --> 00:08:08,479
also okay with regard to trash we

108
00:08:14,869 --> 00:08:11,440
put trash into trash bags that can be

109
00:08:18,469 --> 00:08:14,879
sealed by a rubber band to avoid bad

110
00:08:21,670 --> 00:08:18,479
smell then we put the bags into

111
00:08:24,629 --> 00:08:21,680
a cargo vehicle a cargo vehicle undocks

112
00:08:25,510 --> 00:08:24,639
from the space station and burns up into

113
00:08:28,230 --> 00:08:25,520

the

114

00:08:29,830 --> 00:08:28,240

earth's atmosphere that happens every

115

00:08:39,190 --> 00:08:29,840

every couple of months

116

00:08:45,190 --> 00:08:43,350

okay next question jenny please

117

00:08:47,829 --> 00:08:45,200

konichiwa

118

00:08:50,550 --> 00:08:47,839

my name is daniel and the question

119

00:08:57,110 --> 00:08:50,560

is can you apply anything such as

120

00:09:01,430 --> 00:09:00,550

a very interesting question

121

00:09:05,910 --> 00:09:01,440

both

122

00:09:07,190 --> 00:09:05,920

can apply and work the same as they do

123

00:09:09,590 --> 00:09:07,200

on earth

124

00:09:20,829 --> 00:09:09,600

due to surface tension very interesting

125

00:09:20,839 --> 00:09:28,310

you thank you very much mr furukawa

126
00:09:31,910 --> 00:09:30,470
thank you

127
00:09:36,470 --> 00:09:31,920
this morning

128
00:09:39,430 --> 00:09:36,480
we are here at the ict center

129
00:09:42,070 --> 00:09:39,440
ict center video conference room at

130
00:09:45,190 --> 00:09:42,080
university of south pacific

131
00:09:47,670 --> 00:09:45,200
this facility has been funded by

132
00:09:50,710 --> 00:09:47,680
the people of japan

133
00:09:53,990 --> 00:09:50,720
and this has enabled us

134
00:09:55,910 --> 00:09:54,000
to carry out this event

135
00:10:00,630 --> 00:09:55,920
today we have

136
00:10:02,710 --> 00:10:00,640
students from usb with some questions

137
00:10:09,190 --> 00:10:02,720
so we would like to

138
00:10:09,200 --> 00:10:15,910

first question please

139

00:10:21,350 --> 00:10:19,030

konichiwa furukawa

140

00:10:23,350 --> 00:10:21,360

my question is

141

00:10:25,350 --> 00:10:23,360

you studied medicine and medical science

142

00:10:27,670 --> 00:10:25,360

to become a surgeon

143

00:10:33,110 --> 00:10:27,680

can you please explain why and how you

144

00:10:38,150 --> 00:10:35,430

okay thank you for the question uh

145

00:10:40,230 --> 00:10:38,160

actually i had a longing for space from

146

00:10:42,949 --> 00:10:40,240

my early childhood

147

00:10:46,230 --> 00:10:42,959

i saw a uh first

148

00:10:48,630 --> 00:10:46,240

human being step on the moon on tv when

149

00:10:49,829 --> 00:10:48,640

i was five years old i was impressed

150

00:10:52,710 --> 00:10:49,839

with it

151
00:10:54,550 --> 00:10:52,720
and i became interested in space

152
00:10:57,590 --> 00:10:54,560
and when i was a junior high school

153
00:11:00,710 --> 00:10:57,600
student i wanted to become

154
00:11:04,230 --> 00:11:00,720
an astronomer astronomer or a space

155
00:11:06,470 --> 00:11:04,240
engineer and when i was 17 years old i

156
00:11:09,030 --> 00:11:06,480
had a chance to listen to my uncle's

157
00:11:12,230 --> 00:11:09,040
story who is a medical doctor

158
00:11:15,030 --> 00:11:12,240
he told me that he was very happy when a

159
00:11:15,990 --> 00:11:15,040
patient recovers from illness

160
00:11:17,430 --> 00:11:16,000
and

161
00:11:20,710 --> 00:11:17,440
left

162
00:11:23,430 --> 00:11:20,720
hospital so i changed my mind to become

163
00:11:26,389 --> 00:11:23,440

a medical doctor because i thought

164

00:11:28,870 --> 00:11:26,399

i would be of help to patients

165

00:11:31,910 --> 00:11:28,880

and i became a doc medical doctor and i

166

00:11:33,990 --> 00:11:31,920

liked the job and one night when i was

167

00:11:35,110 --> 00:11:34,000

working in a night shift

168

00:11:43,910 --> 00:11:35,120

a

169

00:11:47,269 --> 00:11:43,920

those selected would

170

00:11:49,269 --> 00:11:47,279

stay onboard the iss and conduct many

171

00:11:51,670 --> 00:11:49,279

scientific experiments

172

00:11:54,069 --> 00:11:51,680

the news galvanized me

173

00:11:55,350 --> 00:11:54,079

and i really thought i would like to do

174

00:11:58,069 --> 00:11:55,360

this job

175

00:12:00,550 --> 00:11:58,079

so i applied for the selection and

176
00:12:09,430 --> 00:12:00,560
fortunately i was selected

177
00:12:09,440 --> 00:12:16,949
next question please

178
00:12:22,470 --> 00:12:19,110
konnichiwa furukawa

179
00:12:27,990 --> 00:12:25,509
konnichiwa my question is

180
00:12:32,710 --> 00:12:28,000
what is your most memorable moment in

181
00:12:38,629 --> 00:12:35,670
that's an excellent question uh it was a

182
00:12:40,069 --> 00:12:38,639
moment when uh we

183
00:12:43,509 --> 00:12:40,079
solved a

184
00:12:46,389 --> 00:12:43,519
a malfunction and came to a successful

185
00:12:47,829 --> 00:12:46,399
end it was a plant experiment a couple

186
00:12:51,030 --> 00:12:47,839
of months ago

187
00:12:54,550 --> 00:12:51,040
and it was a cucumber plant experiment

188
00:12:58,230 --> 00:12:54,560

and after a 24-hour incubation of of

189

00:13:02,230 --> 00:12:58,240

seas i was supposed to fix the samples

190

00:13:03,430 --> 00:13:02,240

uh into a a fixed fixing liquid

191

00:13:05,750 --> 00:13:03,440

and that

192

00:13:08,870 --> 00:13:05,760

seal a sealed container was used for

193

00:13:11,509 --> 00:13:08,880

that because the the fixing liquid was

194

00:13:14,230 --> 00:13:11,519

supposed to be harmful

195

00:13:16,389 --> 00:13:14,240

should it leak into an open

196

00:13:20,550 --> 00:13:16,399

into an open cabin

197

00:13:22,230 --> 00:13:20,560

and one of the o-rings that seals the

198

00:13:23,590 --> 00:13:22,240

container

199

00:13:27,110 --> 00:13:23,600

got stuck

200

00:13:30,069 --> 00:13:27,120

and failed so we were not recover the

201
00:13:33,509 --> 00:13:30,079
situation and we lost the samples

202
00:13:35,670 --> 00:13:33,519
and ground team made every effort to

203
00:13:38,870 --> 00:13:35,680
a find out the root cause

204
00:13:39,590 --> 00:13:38,880
and actually air bubbles that mixed into

205
00:13:40,790 --> 00:13:39,600
the

206
00:13:41,910 --> 00:13:40,800
container

207
00:13:44,069 --> 00:13:41,920
liquid

208
00:13:44,949 --> 00:13:44,079
under microgravity turned out to be the

209
00:13:47,590 --> 00:13:44,959
cause

210
00:13:48,389 --> 00:13:47,600
so we performed the the same experiment

211
00:13:51,829 --> 00:13:48,399
again

212
00:13:52,790 --> 00:13:51,839
and the same phenomena none happened

213
00:13:55,350 --> 00:13:52,800

and

214

00:13:58,069 --> 00:13:55,360

due to the uh excellent instructions

215

00:14:00,870 --> 00:13:58,079

from the ground team i

216

00:14:01,590 --> 00:14:00,880

tapped away the bubbles air bubbles from

217

00:14:08,870 --> 00:14:01,600

the

218

00:14:11,430 --> 00:14:08,880

were

219

00:14:21,189 --> 00:14:11,440

overjoyed at this and it was the most

220

00:14:21,199 --> 00:14:24,550

next question please

221

00:14:27,990 --> 00:14:27,189

konnichiwa for a question

222

00:14:29,189 --> 00:14:28,000

my

223

00:14:31,430 --> 00:14:29,199

question is

224

00:14:33,509 --> 00:14:31,440

can you collect symbol of rocks or

225

00:14:37,670 --> 00:14:33,519

anything from space and bring it back to

226

00:14:41,110 --> 00:14:40,230

well that's a good question

227

00:14:42,790 --> 00:14:41,120

well

228

00:14:45,910 --> 00:14:42,800

i think

229

00:14:50,150 --> 00:14:47,430

if that

230

00:14:53,030 --> 00:14:50,160

if it is for scientific purposes

231

00:14:56,310 --> 00:14:53,040

and i think it would be great if a an

232

00:15:01,030 --> 00:14:56,320

astronaut or cosmonaut that uh chooses

233

00:15:01,040 --> 00:15:11,189

is a specialist geology specialist

234

00:15:11,199 --> 00:15:16,949

next question please

235

00:15:20,790 --> 00:15:18,389

my name is

236

00:15:23,269 --> 00:15:20,800

and my question is it is said that the

237

00:15:25,590 --> 00:15:23,279

iss has a massive laboratory which

238

00:15:27,590 --> 00:15:25,600

conducts various experiments

239

00:15:28,790 --> 00:15:27,600

if it is a facebook

240

00:15:30,870 --> 00:15:28,800

experiment

241

00:15:33,350 --> 00:15:30,880

then could you please tell what sort of

242

00:15:35,110 --> 00:15:33,360

experiments are conducted and how these

243

00:15:39,269 --> 00:15:35,120

are essential for the people back on

244

00:15:45,269 --> 00:15:42,629

okay that's a very good question uh a

245

00:15:47,749 --> 00:15:45,279

wide variety of experiments are being

246

00:15:50,310 --> 00:15:47,759

conducted onboard the state space

247

00:15:54,150 --> 00:15:50,320

station and let me introduce an

248

00:15:56,949 --> 00:15:54,160

experiment of protein crystallization

249

00:15:58,150 --> 00:15:56,959

under microgravity we can get better

250

00:16:00,310 --> 00:15:58,160

quality

251
00:16:02,150 --> 00:16:00,320
protein crystallization

252
00:16:05,430 --> 00:16:02,160
on the other hand

253
00:16:07,910 --> 00:16:05,440
when cancer cells grow

254
00:16:09,030 --> 00:16:07,920
cancer cell feeding

255
00:16:11,350 --> 00:16:09,040
vessels

256
00:16:12,629 --> 00:16:11,360
sometimes grow around them

257
00:16:15,829 --> 00:16:12,639
so

258
00:16:16,990 --> 00:16:15,839
if you inhibit the growth of these this

259
00:16:19,430 --> 00:16:17,000
is called

260
00:16:21,590 --> 00:16:19,440
angiogenesis and if you inhibit

261
00:16:25,509 --> 00:16:21,600
angiogenesis

262
00:16:27,230 --> 00:16:25,519
it can be a cancer remedy so we created

263
00:16:30,949 --> 00:16:27,240

made

264

00:16:32,150 --> 00:16:30,959

angiogenesis inhibition related protein

265

00:16:33,509 --> 00:16:32,160

onboard this

266

00:16:37,110 --> 00:16:33,519

space station

267

00:16:38,550 --> 00:16:37,120

and after bringing it back to earth and

268

00:16:40,629 --> 00:16:38,560

analyzing it

269

00:16:43,509 --> 00:16:40,639

the detailed 3d

270

00:16:47,269 --> 00:16:43,519

structure of the protein is determined

271

00:16:47,990 --> 00:16:47,279

resulting in facilitation of development

272

00:16:51,829 --> 00:16:48,000

of

273

00:16:54,550 --> 00:16:51,839

remedy for cancer it is just finding an

274

00:17:06,870 --> 00:16:54,560

appropriate key to a keyhole thank you

275

00:17:12,470 --> 00:17:10,789

thank you very much mr full cover

276

00:17:15,189 --> 00:17:12,480

now

277

00:17:16,470 --> 00:17:15,199

on behalf of students from super sangam

278

00:17:19,669 --> 00:17:16,480

college

279

00:17:22,309 --> 00:17:19,679

i would like to ask mr dixon to have

280

00:17:25,350 --> 00:17:22,319

some comments

281

00:17:31,029 --> 00:17:28,230

konnichiwan furukawa my name is victor

282

00:17:33,029 --> 00:17:31,039

kolitangani and i am a form 5 student of

283

00:17:34,950 --> 00:17:33,039

silversango college

284

00:17:38,150 --> 00:17:34,960

i'm very honored and privileged to be

285

00:17:41,190 --> 00:17:38,160

here today to be part of this

286

00:17:44,830 --> 00:17:41,200

rare rare program that has brought all

287

00:17:47,190 --> 00:17:44,840

our selected students to this to the usp

288

00:17:49,110 --> 00:17:47,200

campus i

289

00:17:51,270 --> 00:17:49,120

i would like to thank you for

290

00:17:53,110 --> 00:17:51,280

for taking out your time from your

291

00:17:55,590 --> 00:17:53,120

duties as an astronaut to be with us

292

00:17:57,270 --> 00:17:55,600

here today i'd also like to thank you

293

00:17:58,470 --> 00:17:57,280

for accepting us

294

00:17:59,270 --> 00:17:58,480

to be here

295

00:18:00,870 --> 00:17:59,280

and

296

00:18:02,710 --> 00:18:00,880

to be here to interact with you through

297

00:18:04,710 --> 00:18:02,720

video conference

298

00:18:07,029 --> 00:18:04,720

all in all i would like to say

299

00:18:09,029 --> 00:18:07,039

thank you for having us today and it is

300

00:18:10,870 --> 00:18:09,039

a privilege and an honor and i hope that

301
00:18:11,990 --> 00:18:10,880
we can continue this in the near future

302
00:18:22,310 --> 00:18:12,000
to come

303
00:18:27,190 --> 00:18:24,310
thank you very much for your kind words

304
00:18:29,350 --> 00:18:27,200
and very nice talking with you and to

305
00:18:39,190 --> 00:18:29,360
all the people in fiji

306
00:18:45,510 --> 00:18:42,549
thank you very much mr furukawa

307
00:18:48,630 --> 00:18:45,520
before we end this session

308
00:18:52,789 --> 00:18:48,640
we have a message from the we have a

309
00:18:52,799 --> 00:19:05,590
okay

310
00:19:05,600 --> 00:19:12,230
foreign

311
00:19:24,950 --> 00:19:14,390
thank you very much i really appreciate

312
00:19:33,110 --> 00:19:27,909
station this is houston acr thank you

313
00:19:36,950 --> 00:19:34,870

thank you jaxa and everyone at the

314

00:19:39,510 --> 00:19:36,960

university of the south pacific station