

Более 90 телеканалов в идеальном цифровом качестве

Қазақтелеком

Популярно

160

ЖАНАСЫЗ
БЕСПЛАТНО



1
00:00:14,639 --> 00:00:55,590
hello

2
00:00:55,600 --> 00:01:23,830
to congratulate you

3
00:01:28,149 --> 00:01:25,510
is an example of

4
00:01:30,069 --> 00:01:28,159
how we can resolve all the economic

5
00:01:34,789 --> 00:01:30,079
issues

6
00:01:36,069 --> 00:01:34,799
congratulations on successful return

7
00:01:37,910 --> 00:01:36,079
and

8
00:01:42,950 --> 00:01:37,920
congratulations on the completion of

9
00:01:49,510 --> 00:01:44,950
we know that your work is work of very

10
00:01:52,830 --> 00:01:51,350
allowing me

11
00:01:55,429 --> 00:01:52,840
according to

12
00:01:56,630 --> 00:01:55,439
kazakhstan custom

13
00:02:13,190 --> 00:01:56,640

to

14

00:02:13,200 --> 00:02:24,229

thank you

15

00:02:24,239 --> 00:02:47,830

foreign

16

00:02:47,840 --> 00:03:02,309

um

17

00:03:02,319 --> 00:03:12,470

the earth to which

18

00:03:29,670 --> 00:03:14,869

surprisingly and she made drawings for

19

00:03:33,509 --> 00:03:31,750

congratulations to everyone who's

20

00:03:35,589 --> 00:03:33,519

supported

21

00:03:37,270 --> 00:03:35,599

your landing

22

00:03:39,509 --> 00:03:37,280

and again congratulations on the

23

00:03:44,149 --> 00:03:39,519

completion of your goals

24

00:03:44,159 --> 00:03:50,550

uh

25

00:03:58,949 --> 00:03:52,710

and congratulations on completion of

26

00:04:03,750 --> 00:04:01,830

work in space is outstanding and the

27

00:04:06,229 --> 00:04:03,760

goals that you have met

28

00:04:07,910 --> 00:04:06,239

are amazing um

29

00:04:09,830 --> 00:04:07,920

enormous the most important thing is

30

00:04:11,990 --> 00:04:09,840

that you have returned to

31

00:04:13,910 --> 00:04:12,000

earth successfully

32

00:04:17,749 --> 00:04:13,920

from the bottom of my heart i would like

33

00:04:18,870 --> 00:04:17,759

to say my thanks to the kim of the city

34

00:04:21,909 --> 00:04:18,880

and

35

00:04:24,870 --> 00:04:21,919

to those people who participated in

36

00:04:29,030 --> 00:04:24,880

assuring your landing the meteorological

37

00:04:30,870 --> 00:04:29,040

conditions were very complicated

38

00:04:31,909 --> 00:04:30,880

i am not going to take your

39

00:04:32,950 --> 00:04:31,919

time

40

00:04:35,189 --> 00:04:32,960

and

41

00:04:36,390 --> 00:04:35,199

according to the tradition

42

00:04:42,950 --> 00:04:36,400

we are giving you the gift of

43

00:04:42,960 --> 00:05:02,550

thank you

44

00:05:09,510 --> 00:05:05,990

may i ask a question yes go ahead

45

00:05:16,230 --> 00:05:13,110

i'm am i very bad speaking in english

46

00:05:18,550 --> 00:05:16,240

but i have some questions

47

00:05:22,070 --> 00:05:18,560

speak me please about

48

00:05:29,510 --> 00:05:22,080

how in cosmos and do you like your

49

00:05:34,230 --> 00:05:31,830

of course for all of us this has been

50

00:05:37,189 --> 00:05:34,240

our dream for many years it takes

51
00:05:39,430 --> 00:05:37,199
the road to space is a very long one

52
00:05:40,150 --> 00:05:39,440
with the help of many people also for

53
00:05:41,830 --> 00:05:40,160
the

54
00:05:43,749 --> 00:05:41,840
excellent training that we receive in

55
00:05:46,310 --> 00:05:43,759
many places around the world

56
00:05:47,270 --> 00:05:46,320
but there's nothing that can compare to

57
00:05:50,950 --> 00:05:47,280
living

58
00:05:54,070 --> 00:05:50,960
in space and working for half of a year

59
00:05:55,110 --> 00:05:54,080
it's a magnificent the work is

60
00:06:00,629 --> 00:05:55,120
very good

61
00:06:05,670 --> 00:06:03,270
fully successful

62
00:06:06,950 --> 00:06:05,680
we accomplished many scientific

63
00:06:09,909 --> 00:06:06,960

experiments

64

00:06:11,830 --> 00:06:09,919

for example from medical point of view

65

00:06:15,270 --> 00:06:11,840

we created

66

00:06:17,110 --> 00:06:15,280

protein crystallization of cancer remedy

67

00:06:19,510 --> 00:06:17,120

treated protein

68

00:06:22,870 --> 00:06:19,520

because under microgravity

69

00:06:25,510 --> 00:06:22,880

you have better quality

70

00:06:28,629 --> 00:06:25,520

protein crystallization and on the other

71

00:06:30,550 --> 00:06:28,639

hand when cancer cells grow

72

00:06:33,110 --> 00:06:30,560

you cancer

73

00:06:36,629 --> 00:06:33,120

feeding vessels

74

00:06:39,350 --> 00:06:36,639

grow around the cancer cell so if you

75

00:06:41,350 --> 00:06:39,360

inhibit the growth of the

76

00:06:43,029 --> 00:06:41,360

these vessels

77

00:06:47,670 --> 00:06:43,039

it may lead to

78

00:06:48,390 --> 00:06:47,680

cancer energy so we created that

79

00:06:51,029 --> 00:06:48,400

and

80

00:06:53,909 --> 00:06:51,039

that's called angiogenesis angiogenesis

81

00:06:56,870 --> 00:06:53,919

inhibition related protein and it is

82

00:07:10,230 --> 00:06:59,430

investigation of 3d structure on the

83

00:07:10,240 --> 00:07:17,830

thank you

84

00:07:20,710 --> 00:07:19,589

all right mike welcome back uh just give

85

00:07:22,150 --> 00:07:20,720

us some first impressions of what it

86

00:07:23,270 --> 00:07:22,160

feels like to finally be back after five

87

00:07:24,870 --> 00:07:23,280

and a half months

88

00:07:26,629 --> 00:07:24,880

oh gravity's rough

89

00:07:28,629 --> 00:07:26,639

yeah it really is it's such a big

90

00:07:30,950 --> 00:07:28,639

difference the ride home

91

00:07:33,430 --> 00:07:30,960

was uh so amazing it was very different

92

00:07:34,950 --> 00:07:33,440

from my previous experience on with

93

00:07:37,589 --> 00:07:34,960

space shuttle flights

94

00:07:40,150 --> 00:07:37,599

it's a very uh very efficient

95

00:07:43,189 --> 00:07:40,160

vehicle that means it's really tight it

96

00:07:46,629 --> 00:07:43,199

fits three three guys perfectly and not

97

00:07:48,230 --> 00:07:46,639

much extra room but coming home was you

98

00:07:50,390 --> 00:07:48,240

know is everything i expected they can't

99

00:07:51,830 --> 00:07:50,400

train you for some of this but i i did

100

00:07:52,550 --> 00:07:51,840

spend a lot of time talking to some of

101
00:07:54,230 --> 00:07:52,560
the

102
00:07:56,550 --> 00:07:54,240
most recent crews to come home in a

103
00:07:57,589 --> 00:07:56,560
soyuz to you know get a really good

104
00:07:58,950 --> 00:07:57,599
understanding of what it was going to be

105
00:08:01,350 --> 00:07:58,960
like and i'm glad because it's it's

106
00:08:03,430 --> 00:08:01,360
different at times it's violent

107
00:08:04,869 --> 00:08:03,440
uh coming as we do the atmospheric

108
00:08:07,350 --> 00:08:04,879
reentry

109
00:08:10,150 --> 00:08:07,360
it's kind of like you're inside a roman

110
00:08:12,230 --> 00:08:10,160
candle because you see these

111
00:08:14,550 --> 00:08:12,240
it's an ablative heat shield which means

112
00:08:16,710 --> 00:08:14,560
it burns away and it comes off in pieces

113
00:08:19,749 --> 00:08:16,720

that are flaming glowing

114

00:08:21,670 --> 00:08:19,759

just just incandescent orange and

115

00:08:24,309 --> 00:08:21,680

they're coming by the window right by

116

00:08:25,670 --> 00:08:24,319

the window and if you feel that

117

00:08:27,510 --> 00:08:25,680

this is

118

00:08:29,909 --> 00:08:27,520

amazing

119

00:08:31,510 --> 00:08:29,919

so you just finished up about what four

120

00:08:33,350 --> 00:08:31,520

or five days of handing over with dan

121

00:08:34,949 --> 00:08:33,360

burbank pretty short compared to what we

122

00:08:36,230 --> 00:08:34,959

typically have whenever one crew hands

123

00:08:37,430 --> 00:08:36,240

over to another talk about kind of what

124

00:08:39,269 --> 00:08:37,440

you guys talked about and how you were

125

00:08:40,870 --> 00:08:39,279

able to really get all that done

126
00:08:41,670 --> 00:08:40,880
within just a really short amount of

127
00:08:45,030 --> 00:08:41,680
time

128
00:08:46,870 --> 00:08:45,040
we started dan's handover about two and

129
00:08:48,470 --> 00:08:46,880
a half months ago when we knew that he

130
00:08:50,070 --> 00:08:48,480
was going to be delayed and we started

131
00:08:52,310 --> 00:08:50,080
doing videos on board i started doing

132
00:08:54,389 --> 00:08:52,320
his handover before he arrived

133
00:08:56,389 --> 00:08:54,399
so i would be doing a certain task and

134
00:08:58,230 --> 00:08:56,399
said let's set up the video recorder get

135
00:08:59,430 --> 00:08:58,240
microphone on me and then let's just

136
00:09:00,630 --> 00:08:59,440
talk through it hey dan here's what

137
00:09:02,310 --> 00:09:00,640
here's how you do this that kind of

138
00:09:04,389 --> 00:09:02,320

thing and so he's had the chance to

139

00:09:06,710 --> 00:09:04,399

study that and in some ways maybe better

140

00:09:09,750 --> 00:09:06,720

prepared because if he didn't understand

141

00:09:11,829 --> 00:09:09,760

it all the first time he just rewinds

142

00:09:13,990 --> 00:09:11,839

hits it again and

143

00:09:15,670 --> 00:09:14,000

you know and then he watched these until

144

00:09:17,190 --> 00:09:15,680

he really understood it and so they hit

145

00:09:19,110 --> 00:09:17,200

the ground running you know it's well

146

00:09:21,430 --> 00:09:19,120

it's just one american coming up there

147

00:09:23,829 --> 00:09:21,440

and he's you know he's well prepared but

148

00:09:26,230 --> 00:09:23,839

we used every waking minute and we took

149

00:09:27,829 --> 00:09:26,240

some away from sleep to

150

00:09:29,990 --> 00:09:27,839

you know to just go through because

151

00:09:32,949 --> 00:09:30,000

there's a lot to learn uh the

152

00:09:34,470 --> 00:09:32,959

us os or the uh you know the american

153

00:09:36,949 --> 00:09:34,480

side of the station which does include

154

00:09:39,030 --> 00:09:36,959

the japanese and european modules but

155

00:09:41,509 --> 00:09:39,040

it's it's very large and people have

156

00:09:43,350 --> 00:09:41,519

been living in it for years uh you know

157

00:09:44,470 --> 00:09:43,360

the central part of the station over 11

158

00:09:46,389 --> 00:09:44,480

years now

159

00:09:48,470 --> 00:09:46,399

and so there's there's a lot of things

160

00:09:51,590 --> 00:09:48,480

that have just been passed on from crew

161

00:09:53,829 --> 00:09:51,600

to crew where things are stowed how you

162

00:09:55,750 --> 00:09:53,839

really hook it together what the

163

00:09:57,509 --> 00:09:55,760

procedure you know will eventually say

164

00:09:58,790 --> 00:09:57,519

but it doesn't yet because they haven't

165

00:09:59,990 --> 00:09:58,800

updated it

166

00:10:02,150 --> 00:10:00,000

though all those kind of things take a

167

00:10:04,069 --> 00:10:02,160

lot of time and you know it was it was

168

00:10:05,990 --> 00:10:04,079

very busy and they're going to be very

169

00:10:08,389 --> 00:10:06,000

busy and i intend to get over to the

170

00:10:10,389 --> 00:10:08,399

mission control center you know to uh to

171

00:10:12,470 --> 00:10:10,399

talk to him you know as soon as we get

172

00:10:13,829 --> 00:10:12,480

home in the next few days to

173

00:10:16,389 --> 00:10:13,839

and uh you know he has my cell phone

174

00:10:17,590 --> 00:10:16,399

number and so i expect you know i expect

175

00:10:19,269 --> 00:10:17,600

to hear from him and that's that's

176

00:10:20,470 --> 00:10:19,279

totally fair we wanted to you know we

177

00:10:21,509 --> 00:10:20,480

wanted more time but we did what we

178

00:10:22,870 --> 00:10:21,519

could

179

00:10:23,910 --> 00:10:22,880

okay so mike you were up there during

180

00:10:26,069 --> 00:10:23,920

the last shuttle mission you said

181

00:10:28,230 --> 00:10:26,079

farewell to atlantis uh it's a huge

182

00:10:29,750 --> 00:10:28,240

event for nasa uh talk a little bit

183

00:10:32,630 --> 00:10:29,760

about you know whatever you'll reflect

184

00:10:34,949 --> 00:10:32,640

back on that what that was like it was a

185

00:10:37,430 --> 00:10:34,959

i mean being there for the last flight

186

00:10:39,670 --> 00:10:37,440

of the space shuttle program was

187

00:10:42,230 --> 00:10:39,680

was huge there was it was it was

188

00:10:44,550 --> 00:10:42,240

emotional for all of us i have the first

189

00:10:46,790 --> 00:10:44,560

shuttle mission that i worked was sts-3

190

00:10:48,550 --> 00:10:46,800

back in 1982 when i was loaned over from

191

00:10:50,230 --> 00:10:48,560

the air force to nasa i have a long

192

00:10:52,470 --> 00:10:50,240

history of the shuttle program i saw it

193

00:10:55,110 --> 00:10:52,480

you know back in the very early days and

194

00:10:56,870 --> 00:10:55,120

and we've grown up you know with us a

195

00:10:58,630 --> 00:10:56,880

very successful program

196

00:11:00,630 --> 00:10:58,640

we've learned some hard lessons uh

197

00:11:01,750 --> 00:11:00,640

through her but you know for for you

198

00:11:06,150 --> 00:11:01,760

know

199

00:11:07,670 --> 00:11:06,160

that fly space shuttles on a fairly

200

00:11:09,990 --> 00:11:07,680

routine basis

201
00:11:12,069 --> 00:11:10,000
and so to be part of that historic last

202
00:11:13,750 --> 00:11:12,079
mission it was huge it was a wonderful

203
00:11:15,190 --> 00:11:13,760
crew they were so great they

204
00:11:17,110 --> 00:11:15,200
short-handed they just had four people

205
00:11:19,190 --> 00:11:17,120
but they hit the ground running and did

206
00:11:20,949 --> 00:11:19,200
so much they were so effective and we

207
00:11:22,470 --> 00:11:20,959
had a great time with them and uh they

208
00:11:24,069 --> 00:11:22,480
did i mean we all did great work

209
00:11:25,509 --> 00:11:24,079
together and

210
00:11:27,269 --> 00:11:25,519
you know i'm just just

211
00:11:28,550 --> 00:11:27,279
lucky to be there

212
00:11:30,069 --> 00:11:28,560
last question whenever you look back at

213
00:11:31,910 --> 00:11:30,079

your expedition you guys are extremely

214

00:11:34,069 --> 00:11:31,920

busy i had a lot of milestones what will

215

00:11:35,110 --> 00:11:34,079

you remember the most the top one or two

216

00:11:36,630 --> 00:11:35,120

things you'll remember the most about

217

00:11:38,790 --> 00:11:36,640

your time up there

218

00:11:40,310 --> 00:11:38,800

yeah i i i kind of make a joke we're

219

00:11:42,470 --> 00:11:40,320

proud that we fixed more than we broke

220

00:11:44,230 --> 00:11:42,480

and we found more than we lost

221

00:11:45,590 --> 00:11:44,240

and that's you know one way to measure

222

00:11:46,710 --> 00:11:45,600

your effectiveness

223

00:11:50,230 --> 00:11:46,720

when we

224

00:11:51,990 --> 00:11:50,240

we we changed from the the shuttle

225

00:11:53,670 --> 00:11:52,000

well the shuttle era which was really to

226

00:11:56,150 --> 00:11:53,680

find define the space station

227

00:11:58,629 --> 00:11:56,160

construction era we went from assembly

228

00:12:01,509 --> 00:11:58,639

to kicking up the science program into

229

00:12:04,389 --> 00:12:01,519

full gear and we did so we were we were

230

00:12:06,470 --> 00:12:04,399

meeting and exceeding our science goals

231

00:12:08,150 --> 00:12:06,480

every week including when we went down

232

00:12:09,910 --> 00:12:08,160

to a three-person crew

233

00:12:12,150 --> 00:12:09,920

and we kept up we we still made the

234

00:12:14,389 --> 00:12:12,160

science numbers it's we're proud of that

235

00:12:16,790 --> 00:12:14,399

my most memorable moment

236

00:12:19,190 --> 00:12:16,800

was probably when i

237

00:12:22,389 --> 00:12:19,200

was able to capture you know to see the

238

00:12:23,829 --> 00:12:22,399

aurora as it really blossomed and that's

239

00:12:25,269 --> 00:12:23,839

the only way to describe it i've seen it

240

00:12:27,269 --> 00:12:25,279

before on my previous space shuttle

241

00:12:28,389 --> 00:12:27,279

flights i've seen it on the ground many

242

00:12:29,269 --> 00:12:28,399

years ago

243

00:12:31,670 --> 00:12:29,279

uh

244

00:12:33,430 --> 00:12:31,680

a very good display on the ground but in

245

00:12:36,829 --> 00:12:33,440

the shuttle shuttle flights when the sun

246

00:12:39,430 --> 00:12:36,839

is at a low level of like low level of

247

00:12:40,629 --> 00:12:39,440

activity is a little green on the

248

00:12:42,790 --> 00:12:40,639

horizon

249

00:12:45,110 --> 00:12:42,800

this was amazing

250

00:12:46,629 --> 00:12:45,120

because you could see the auroras the

251
00:12:48,310 --> 00:12:46,639
northern and southern auroras come in

252
00:12:50,629 --> 00:12:48,320
and they formed kind of a donut around

253
00:12:53,750 --> 00:12:50,639
the magnetic hole

254
00:12:55,910 --> 00:12:53,760
or poles and and and that's where it

255
00:12:58,550 --> 00:12:55,920
comes during this energy the particles

256
00:13:00,470 --> 00:12:58,560
come streaming in to set up this glow

257
00:13:03,590 --> 00:13:00,480
and you can see it and then you could

258
00:13:05,590 --> 00:13:03,600
see enough of it to understand the the i

259
00:13:08,150 --> 00:13:05,600
mean the three-dimensional shape of it

260
00:13:10,150 --> 00:13:08,160
and at times and i'm not sure exactly

261
00:13:12,870 --> 00:13:10,160
what makes this happen but it spread far

262
00:13:14,710 --> 00:13:12,880
enough that we flew through it

263
00:13:17,350 --> 00:13:14,720

and

264

00:13:19,509 --> 00:13:17,360

i'm in the you know i'm in the cupola

265

00:13:20,470 --> 00:13:19,519

with the cameras you know clicking away

266

00:13:22,230 --> 00:13:20,480

and

267

00:13:23,430 --> 00:13:22,240

wow we're we're really getting close

268

00:13:25,350 --> 00:13:23,440

this time and i realized we're going

269

00:13:27,190 --> 00:13:25,360

through it and it's not a solid thing it

270

00:13:29,110 --> 00:13:27,200

looks like it in the pictures but as you

271

00:13:30,150 --> 00:13:29,120

get up close it's more ethereal you're

272

00:13:32,389 --> 00:13:30,160

it's

273

00:13:35,190 --> 00:13:32,399

but you you are enveloped and you know

274

00:13:37,990 --> 00:13:35,200

that and not just the green but the reds

275

00:13:39,670 --> 00:13:38,000

and even blues i caught some blue aurora

276

00:13:40,790 --> 00:13:39,680

which is the same color blue as our

277

00:13:44,230 --> 00:13:40,800

flight suits

278

00:13:45,750 --> 00:13:44,240

and that was just amazing amazing well

279

00:13:46,870 --> 00:13:45,760

it's good to have you back fine

280

00:13:48,470 --> 00:13:46,880

and you know what i liked about the

281

00:13:51,110 --> 00:13:48,480

aurora too and i could gush on that all

282

00:13:53,829 --> 00:13:51,120

day but i i managed to capture on on the

283

00:13:55,590 --> 00:13:53,839

cameras to share it because i mean i

284

00:13:57,350 --> 00:13:55,600

loved seeing it for myself but i think

285

00:13:59,350 --> 00:13:57,360

it to me it was really

286

00:14:00,870 --> 00:13:59,360

a huge thing to be able to capture that

287

00:14:03,030 --> 00:14:00,880

so that i could share that with people

288

00:14:05,829 --> 00:14:03,040

in and i i had such a response from

289

00:14:08,710 --> 00:14:05,839

folks that enjoyed you know those images

290

00:14:09,750 --> 00:14:08,720

uh and uh and so i'm proud of that that

291

00:14:11,430 --> 00:14:09,760

and it had

292

00:14:13,430 --> 00:14:11,440

nothing to do with our official mission

293

00:14:14,470 --> 00:14:13,440

that was the stuff i was doing at night

294

00:14:15,990 --> 00:14:14,480

you know trying to figure out how to

295

00:14:17,670 --> 00:14:16,000

capture those images

296

00:14:18,710 --> 00:14:17,680

and things like that so

297

00:14:21,750 --> 00:14:18,720

you know so

298

00:14:23,910 --> 00:14:21,760

we kept the station going we you know

299

00:14:26,069 --> 00:14:23,920

handed over to the next crew

300

00:14:28,069 --> 00:14:26,079

and we you know did some good work and

301

00:15:02,230 --> 00:14:28,079

had some fun along the way

302

00:15:08,790 --> 00:15:04,710

arrived no issues in flight we're all

303

00:15:08,800 --> 00:15:22,069

congratulations thank you

304

00:15:22,079 --> 00:15:37,749

hello

305

00:15:37,759 --> 00:15:43,110

thank you