



1
00:00:04,550 --> 00:00:02,470
you probably still dream

2
00:00:06,389 --> 00:00:04,560
of what could be

3
00:00:07,829 --> 00:00:06,399
we did

4
00:00:10,150 --> 00:00:07,839
we do

5
00:00:11,270 --> 00:00:10,160
and while many thought we were through

6
00:00:12,709 --> 00:00:11,280
no

7
00:00:14,470 --> 00:00:12,719
we've been learning

8
00:00:16,470 --> 00:00:14,480
we've been building

9
00:00:17,510 --> 00:00:16,480
we've been training

10
00:00:19,189 --> 00:00:17,520
and now

11
00:00:21,670 --> 00:00:19,199
it's time

12
00:00:23,830 --> 00:00:21,680
because the next frontier is not just

13
00:00:26,550 --> 00:00:23,840

for the next generation

14

00:00:27,589 --> 00:00:26,560

it's for this generation

15

00:00:28,830 --> 00:00:27,599

it's for me

16

00:00:32,590 --> 00:00:28,840

and it's for

17

00:00:35,430 --> 00:00:32,600

you for everything we still dream about

18

00:00:37,110 --> 00:00:35,440

[Music]

19

00:00:42,370 --> 00:00:37,120

we go

20

00:00:42,380 --> 00:00:55,510

[Applause]

21

00:00:59,349 --> 00:00:56,950

good morning

22

00:01:01,349 --> 00:00:59,359

i'm vanessa weich deputy director of

23

00:01:03,750 --> 00:01:01,359

nasa's johnson space center

24

00:01:05,670 --> 00:01:03,760

i'm excited to kick off the graduation

25

00:01:08,230 --> 00:01:05,680

celebration this morning

26
00:01:10,070 --> 00:01:08,240
we have a great day ahead of us and

27
00:01:13,030 --> 00:01:10,080
since this is our first gathering of

28
00:01:15,190 --> 00:01:13,040
2020 i want to point out the tremendous

29
00:01:17,350 --> 00:01:15,200
and historic year that is ahead for

30
00:01:20,630 --> 00:01:17,360
houston and our center

31
00:01:31,830 --> 00:01:20,640
for the first time in nine years we will

32
00:01:35,190 --> 00:01:34,149
our commercial partners and our nasa

33
00:01:38,789 --> 00:01:35,200
team

34
00:01:41,350 --> 00:01:38,799
is working to ensure that our spacecraft

35
00:01:43,590 --> 00:01:41,360
and our launch vehicles are ready to go

36
00:01:45,830 --> 00:01:43,600
and that we will launch our astronauts

37
00:01:47,510 --> 00:01:45,840
in 2020

38
00:01:49,270 --> 00:01:47,520

our crew members on board the

39

00:01:51,990 --> 00:01:49,280

international space station are

40

00:01:56,069 --> 00:01:52,000

continuing to complete research test new

41

00:01:58,310 --> 00:01:56,079

technology and do external space walks

42

00:02:00,389 --> 00:01:58,320

including three spacewalks that are

43

00:02:03,990 --> 00:02:00,399

planned this month

44

00:02:07,590 --> 00:02:04,000

and we continue to rapidly progress

45

00:02:09,589 --> 00:02:07,600

along our exploration goals in artemis

46

00:02:10,469 --> 00:02:09,599

we will have a lot to celebrate this

47

00:02:13,110 --> 00:02:10,479

year

48

00:02:15,670 --> 00:02:13,120

2020 is going to be exciting and the

49

00:02:18,550 --> 00:02:15,680

celebration starts today

50

00:02:21,110 --> 00:02:18,560

so please allow me to introduce the

51
00:02:30,710 --> 00:02:21,120
director of nasa's johnson space center

52
00:02:35,589 --> 00:02:33,670
thank you thank you vanessa you know and

53
00:02:37,509 --> 00:02:35,599
welcome everyone what a great day this

54
00:02:39,270 --> 00:02:37,519
is indeed a big day for the johnson

55
00:02:41,110 --> 00:02:39,280
space center big day for nasa for

56
00:02:42,790 --> 00:02:41,120
houston and the nation

57
00:02:44,710 --> 00:02:42,800
johnson space center has led the world

58
00:02:46,949 --> 00:02:44,720
in human space flight for more than 55

59
00:02:48,070 --> 00:02:46,959
years and these days we are busier than

60
00:02:50,309 --> 00:02:48,080
ever

61
00:02:51,670 --> 00:02:50,319
we take responsibility for the welfare

62
00:02:53,750 --> 00:02:51,680
and performance of our nation's

63
00:02:55,110 --> 00:02:53,760

astronauts and we take that very

64

00:02:57,190 --> 00:02:55,120

seriously

65

00:02:58,470 --> 00:02:57,200

through our work at jsc american and

66

00:03:00,630 --> 00:02:58,480

international astronauts have been

67

00:03:02,309 --> 00:03:00,640

continuously working and living in space

68

00:03:05,350 --> 00:03:02,319

on the international space station for

69

00:03:07,670 --> 00:03:05,360

almost 20 years and now we are preparing

70

00:03:09,350 --> 00:03:07,680

to send astronauts further into space

71

00:03:10,710 --> 00:03:09,360

than ever before

72

00:03:11,830 --> 00:03:10,720

i would love i would now like to

73

00:03:13,670 --> 00:03:11,840

recognize

74

00:03:15,910 --> 00:03:13,680

a few of our very distinguished guests

75

00:03:25,430 --> 00:03:15,920

joining us here today i'd like to start

76

00:03:25,440 --> 00:03:33,589

texas representative dennis paul

77

00:03:37,110 --> 00:03:35,110

and then i would like to also we have

78

00:03:38,789 --> 00:03:37,120

many representatives from offices of

79

00:03:40,630 --> 00:03:38,799

congresswoman sheila jackson lee

80

00:03:43,110 --> 00:03:40,640

congressman michael mccall

81

00:03:45,350 --> 00:03:43,120

congressman randy weber congressman

82

00:03:46,710 --> 00:03:45,360

brian babin congresswoman lizzie

83

00:03:49,030 --> 00:03:46,720

fletcher

84

00:03:50,949 --> 00:03:49,040

people members of the city of houston

85

00:03:53,509 --> 00:03:50,959

and also officials from the white house

86

00:03:54,869 --> 00:03:53,519

office of science and technology policy

87

00:03:56,789 --> 00:03:54,879

we also have

88

00:03:58,949 --> 00:03:56,799

representatives from the united states

89

00:04:01,190 --> 00:03:58,959

marine corps united states space force

90

00:04:02,470 --> 00:04:01,200

and the royal canadian air force so

91

00:04:10,070 --> 00:04:02,480

thank you all for coming here and

92

00:04:13,910 --> 00:04:12,149

so two years ago two years ago this

93

00:04:16,069 --> 00:04:13,920

group of new astronauts arrived here at

94

00:04:17,670 --> 00:04:16,079

johnson for the very first time

95

00:04:19,670 --> 00:04:17,680

and they already came in with very

96

00:04:21,749 --> 00:04:19,680

impressive resumes but now they have

97

00:04:23,670 --> 00:04:21,759

become part of an elite group

98

00:04:25,430 --> 00:04:23,680

elite group of people qualified for

99

00:04:27,670 --> 00:04:25,440

space flight and ready to train for the

100

00:04:29,270 --> 00:04:27,680

exciting missions ahead

101
00:04:31,030 --> 00:04:29,280
but like all folks

102
00:04:33,110 --> 00:04:31,040
that come here to work they are now part

103
00:04:35,110 --> 00:04:33,120
of our family the nasa and johnson space

104
00:04:36,950 --> 00:04:35,120
center family we're proud of them and

105
00:04:38,070 --> 00:04:36,960
excited for them and they really deserve

106
00:04:39,909 --> 00:04:38,080
this day

107
00:04:41,670 --> 00:04:39,919
they are beginning a journey that will

108
00:04:44,469 --> 00:04:41,680
take them on voyages of exploration like

109
00:04:46,390 --> 00:04:44,479
humankind has never seen before

110
00:04:48,390 --> 00:04:46,400
now it's my honor to introduce several

111
00:04:49,990 --> 00:04:48,400
people that are on stage with me

112
00:04:56,950 --> 00:04:50,000
first johnson space center deputy

113
00:05:04,469 --> 00:04:58,950

chief of the nasa astronaut office pat

114

00:05:04,479 --> 00:05:10,390

nasa astronaut reed weissman

115

00:05:18,070 --> 00:05:12,310

and canadian space agency astronaut

116

00:05:22,070 --> 00:05:20,070

and now it's my honor to welcome

117

00:05:30,310 --> 00:05:22,080

introduce nasa administrator jim

118

00:05:34,070 --> 00:05:32,310

well thank you so much mark and thank

119

00:05:36,310 --> 00:05:34,080

you for the amazing work you're doing

120

00:05:37,270 --> 00:05:36,320

here at the johnson space center

121

00:05:39,670 --> 00:05:37,280

i know

122

00:05:42,550 --> 00:05:39,680

just maybe a decade ago there was a lot

123

00:05:44,790 --> 00:05:42,560

of a lot of challenges happening um as

124

00:05:47,670 --> 00:05:44,800

the space shuttle was being retired as

125

00:05:49,110 --> 00:05:47,680

the constellation program got canceled

126
00:05:50,870 --> 00:05:49,120
but i can tell you because of your hard

127
00:05:53,350 --> 00:05:50,880
work mark and so many others and of

128
00:05:55,749 --> 00:05:53,360
course bipartisan support in the house

129
00:05:57,749 --> 00:05:55,759
bipartisan support in the senate

130
00:05:59,430 --> 00:05:57,759
nasa is making a significant comeback

131
00:06:01,590 --> 00:05:59,440
our budgets are going up and mark you're

132
00:06:04,230 --> 00:06:01,600
doing all the right things to help this

133
00:06:05,760 --> 00:06:04,240
center be successful in that effort so

134
00:06:12,309 --> 00:06:05,770
thank you mark

135
00:06:14,309 --> 00:06:12,319
[Applause]

136
00:06:17,510 --> 00:06:14,319
it is my pleasure to be here today to

137
00:06:19,670 --> 00:06:17,520
honor our newest class of astronauts

138
00:06:21,670 --> 00:06:19,680

this is a very exciting day

139

00:06:22,629 --> 00:06:21,680

not only for these impressive men and

140

00:06:25,029 --> 00:06:22,639

women

141

00:06:26,390 --> 00:06:25,039

but it's an also incredibly exciting day

142

00:06:28,870 --> 00:06:26,400

for our nation

143

00:06:31,830 --> 00:06:28,880

and for in fact all of humanity

144

00:06:33,990 --> 00:06:31,840

today 13 men and women from nasa

145

00:06:36,629 --> 00:06:34,000

and our partners at the canadian space

146

00:06:37,590 --> 00:06:36,639

agency are graduating from their basic

147

00:06:40,870 --> 00:06:37,600

training

148

00:06:43,510 --> 00:06:40,880

and joining the active astronaut corps

149

00:06:45,029 --> 00:06:43,520

they represent the first wave

150

00:06:47,510 --> 00:06:45,039

of nasa's

151
00:06:48,870 --> 00:06:47,520
artemis generation astronauts i want to

152
00:06:51,510 --> 00:06:48,880
repeat that

153
00:06:53,110 --> 00:06:51,520
this is the artemis generation and this

154
00:07:05,670 --> 00:06:53,120
is the first class

155
00:07:10,790 --> 00:07:07,990
artemis is a bold new vision in space

156
00:07:13,510 --> 00:07:10,800
exploration uniting the international

157
00:07:15,830 --> 00:07:13,520
community in addition to expeditions on

158
00:07:18,390 --> 00:07:15,840
the international space station these

159
00:07:20,390 --> 00:07:18,400
astronauts could one day in fact walk on

160
00:07:23,909 --> 00:07:20,400
the moon as a part of the artemis

161
00:07:34,390 --> 00:07:23,919
program and perhaps one of them could be

162
00:07:38,150 --> 00:07:36,070
their trailblazing triumphs will

163
00:07:40,550 --> 00:07:38,160

transform humanity's presence in our

164

00:07:41,830 --> 00:07:40,560

solar system and forever change life

165

00:07:43,029 --> 00:07:41,840

here on earth

166

00:07:45,830 --> 00:07:43,039

in short

167

00:07:49,110 --> 00:07:45,840

they represent the best of humanity and

168

00:07:51,510 --> 00:07:49,120

our most fervent hopes for the future no

169

00:07:53,270 --> 00:07:51,520

pressure

170

00:08:02,580 --> 00:07:53,280

without further ado let's welcome the

171

00:08:02,590 --> 00:08:15,070

[Music]

172

00:08:39,589 --> 00:08:34,620

[Applause]

173

00:08:41,670 --> 00:08:39,599

[Music]

174

00:08:43,829 --> 00:08:41,680

honestly i cannot think of a better way

175

00:08:45,110 --> 00:08:43,839

to kick off 2020 than honoring this

176

00:08:47,910 --> 00:08:45,120

class

177

00:08:50,470 --> 00:08:47,920

what a year for them to join the corps

178

00:08:52,790 --> 00:08:50,480

2020 will mark the return

179

00:08:54,389 --> 00:08:52,800

of human space flight launches with

180

00:09:04,550 --> 00:08:54,399

american astronauts

181

00:09:09,269 --> 00:09:06,389

it will also be an important year of

182

00:09:11,829 --> 00:09:09,279

progress for our artemis program

183

00:09:13,829 --> 00:09:11,839

our mandate to return to the moon and to

184

00:09:15,670 --> 00:09:13,839

get ready for mars

185

00:09:18,470 --> 00:09:15,680

the title of astronaut has always

186

00:09:21,190 --> 00:09:18,480

carried a sense of sweeping excellence

187

00:09:23,350 --> 00:09:21,200

this excellence is earned every day

188

00:09:24,389 --> 00:09:23,360

through a rare combination of meticulous

189

00:09:27,030 --> 00:09:24,399

effort

190

00:09:28,470 --> 00:09:27,040

our graduates today have demonstrated

191

00:09:30,870 --> 00:09:28,480

uncommon focus

192

00:09:33,269 --> 00:09:30,880

uncommon commitment and dedication

193

00:09:35,269 --> 00:09:33,279

during the last two years of very

194

00:09:37,670 --> 00:09:35,279

intense training

195

00:09:39,110 --> 00:09:37,680

exploration is unforgiving and it and

196

00:09:41,110 --> 00:09:39,120

it's challenging

197

00:09:44,470 --> 00:09:41,120

but these astronauts are prepared to

198

00:09:47,670 --> 00:09:44,480

propel humanity into the vast unknown

199

00:09:49,590 --> 00:09:47,680

taking us farther than ever before

200

00:09:51,590 --> 00:09:49,600

today we recognize our new american

201
00:09:53,750 --> 00:09:51,600
astronauts as well as two canadian

202
00:09:57,190 --> 00:09:53,760
astronauts who have trained alongside

203
00:09:59,030 --> 00:09:57,200
their nasa counterparts the entire way

204
00:10:01,509 --> 00:09:59,040
the integration of u.s and canadian

205
00:10:03,430 --> 00:10:01,519
astronauts exemplifies the strength that

206
00:10:06,069 --> 00:10:03,440
will ultimately prove the artemis

207
00:10:07,990 --> 00:10:06,079
generation successful we are proud to

208
00:10:10,310 --> 00:10:08,000
work with all of our international

209
00:10:13,269 --> 00:10:10,320
partners in low earth orbit and we are

210
00:10:16,230 --> 00:10:13,279
very ex excited to extend

211
00:10:26,870 --> 00:10:16,240
these partnerships to the moon

212
00:10:33,670 --> 00:10:30,389
interestingly these astronauts here

213
00:10:34,870 --> 00:10:33,680

were selected from more than 18 000

214

00:10:38,069 --> 00:10:34,880

applicants

215

00:10:39,829 --> 00:10:38,079

the most that have ever applied to the

216

00:10:42,310 --> 00:10:39,839

space agency

217

00:10:44,150 --> 00:10:42,320

and they come from many walks of life

218

00:10:46,949 --> 00:10:44,160

and they are joined by their canadian

219

00:10:48,310 --> 00:10:46,959

classmates they are the best

220

00:10:50,150 --> 00:10:48,320

of the best

221

00:10:52,389 --> 00:10:50,160

they are highly qualified and very

222

00:10:53,670 --> 00:10:52,399

diverse and they represent all of

223

00:10:55,910 --> 00:10:53,680

america

224

00:10:58,230 --> 00:10:55,920

by receiving their pins today

225

00:10:59,430 --> 00:10:58,240

these astronauts are eligible

226

00:11:02,389 --> 00:10:59,440

for

227

00:11:03,990 --> 00:11:02,399

all kinds of missions in the future

228

00:11:06,230 --> 00:11:04,000

we're talking about missions to the

229

00:11:08,230 --> 00:11:06,240

international space station on the

230

00:11:10,230 --> 00:11:08,240

commercial crew program

231

00:11:13,350 --> 00:11:10,240

we're talking about missions

232

00:11:15,350 --> 00:11:13,360

in the artemis program to the gateway

233

00:11:17,430 --> 00:11:15,360

and we're talking about missions no

234

00:11:19,110 --> 00:11:17,440

kidding to the surface of the moon

235

00:11:22,389 --> 00:11:19,120

and when we talk about the international

236

00:11:24,389 --> 00:11:22,399

space station and the orion crew capsule

237

00:11:26,710 --> 00:11:24,399

and we talk about the gateway itself

238

00:11:28,630 --> 00:11:26,720

these are all programs that are managed

239

00:11:31,269 --> 00:11:28,640

by an amazing team

240

00:11:43,509 --> 00:11:31,279

of engineers and scientists

241

00:11:47,350 --> 00:11:45,110

this is all made possible with

242

00:11:49,990 --> 00:11:47,360

significant increases to the agency's

243

00:11:52,710 --> 00:11:50,000

budget as a result of president donald

244

00:11:54,629 --> 00:11:52,720

trump's moon to mars space policy and

245

00:11:57,350 --> 00:11:54,639

bipartisan support in the house and

246

00:12:00,069 --> 00:11:57,360

senate and i want to specifically thank

247

00:12:02,550 --> 00:12:00,079

senators cruz and cornyn for your strong

248

00:12:04,710 --> 00:12:02,560

support not only in authorization but

249

00:12:06,389 --> 00:12:04,720

also in appropriation and of course your

250

00:12:08,150 --> 00:12:06,399

great leadership for the johnson space

251

00:12:09,269 --> 00:12:08,160

center and the state of texas here's

252

00:12:11,670 --> 00:12:09,279

what we know

253

00:12:13,990 --> 00:12:11,680

nasa can count on texas and when we get

254

00:12:27,110 --> 00:12:14,000

to the moon it's because it happens here

255

00:12:32,389 --> 00:12:29,509

now i i can tell you i used to represent

256

00:12:37,430 --> 00:12:34,870

so i can also tell you

257

00:12:38,949 --> 00:12:37,440

nasa has this unique ability to bring

258

00:12:41,829 --> 00:12:38,959

people together

259

00:12:47,110 --> 00:12:41,839

bipartisan support international support

260

00:12:52,389 --> 00:12:50,069

nasa knows it can always count on texas

261

00:12:55,670 --> 00:12:52,399

so when we think about the future

262

00:12:56,629 --> 00:12:55,680

there is no shortage of opportunities

263

00:12:58,150 --> 00:12:56,639

for these

264

00:12:59,509 --> 00:12:58,160

amazing candidates not can't well i

265

00:13:00,790 --> 00:12:59,519

guess they're candidates for a few more

266

00:13:04,069 --> 00:13:00,800

minutes

267

00:13:06,230 --> 00:13:04,079

um so this is a historic graduation

268

00:13:08,550 --> 00:13:06,240

and this is the johnson space center the

269

00:13:09,910 --> 00:13:08,560

home of the astronaut corps and so many

270

00:13:11,509 --> 00:13:09,920

great things are happening here the

271

00:13:13,590 --> 00:13:11,519

technical expertise and skilled

272

00:13:15,430 --> 00:13:13,600

background of nasa employees

273

00:13:17,750 --> 00:13:15,440

at johnson and across the agency is

274

00:13:19,910 --> 00:13:17,760

unmatched right here we are running

275

00:13:23,030 --> 00:13:19,920

multiple new programs to take us to the

276
00:13:25,269 --> 00:13:23,040
moon to mars and beyond and johnson

277
00:13:26,949 --> 00:13:25,279
space center is leading the way one of

278
00:13:29,110 --> 00:13:26,959
my first initiatives as the nasa

279
00:13:31,030 --> 00:13:29,120
administrator was the commercial lunar

280
00:13:32,629 --> 00:13:31,040
payload services program

281
00:13:34,870 --> 00:13:32,639
so not only are we going to the moon

282
00:13:36,790 --> 00:13:34,880
with amazing astronauts but we're going

283
00:13:38,550 --> 00:13:36,800
to the moon robotically with scientific

284
00:13:41,189 --> 00:13:38,560
payloads and those missions will

285
00:13:44,310 --> 00:13:41,199
beginning will start beginning as soon

286
00:13:46,710 --> 00:13:44,320
as early next year

287
00:13:49,269 --> 00:13:46,720
nasa has also recruited numerous

288
00:13:51,910 --> 00:13:49,279

commercial and international partners to

289

00:13:54,550 --> 00:13:51,920

help propel us to a new era of human

290

00:13:57,189 --> 00:13:54,560

space exploration we can expect even

291

00:13:59,509 --> 00:13:57,199

greater progress in 2020 and of course

292

00:14:03,750 --> 00:13:59,519

there is a whole lot more more momentum

293

00:14:05,750 --> 00:14:03,760

coming in the years ahead remember this

294

00:14:07,990 --> 00:14:05,760

in the year 2024

295

00:14:11,350 --> 00:14:08,000

we are going to take not only the next

296

00:14:13,110 --> 00:14:11,360

man but the first woman to the surface

297

00:14:24,710 --> 00:14:13,120

of the moon by direction of the

298

00:14:29,350 --> 00:14:26,550

the significance of being the first

299

00:14:30,389 --> 00:14:29,360

class in the artemis generation cannot

300

00:14:32,069 --> 00:14:30,399

be

301

00:14:33,189 --> 00:14:32,079

understated

302

00:14:34,949 --> 00:14:33,199

artemis

303

00:14:37,110 --> 00:14:34,959

in greek mythology

304

00:14:40,150 --> 00:14:37,120

is the goddess of the moon

305

00:14:42,389 --> 00:14:40,160

she is also called the torchbringer and

306

00:14:43,990 --> 00:14:42,399

we think about the light that you are

307

00:14:45,750 --> 00:14:44,000

going to bring not just to the united

308

00:14:47,829 --> 00:14:45,760

states of america but to all of the

309

00:14:50,710 --> 00:14:47,839

world we think about something

310

00:14:53,829 --> 00:14:50,720

absolutely significant and important and

311

00:14:55,990 --> 00:14:53,839

when we think about artemis as a as

312

00:14:57,829 --> 00:14:56,000

as the name of a program

313

00:14:59,269 --> 00:14:57,839

the goddess of the moon this time when

314

00:15:01,829 --> 00:14:59,279

we go to the moon we go with a very

315

00:15:04,550 --> 00:15:01,839

diverse highly qualified astronaut corps

316

00:15:07,910 --> 00:15:04,560

that includes women and we are so proud

317

00:15:10,069 --> 00:15:07,920

of what you guys are going to achieve

318

00:15:13,350 --> 00:15:10,079

we will use the gateway our space

319

00:15:14,949 --> 00:15:13,360

station in lunar orbit to give us access

320

00:15:17,910 --> 00:15:14,959

to more parts of the moon than ever

321

00:15:20,790 --> 00:15:17,920

before the gateway is in fact a space

322

00:15:23,030 --> 00:15:20,800

station around the moon the orion crew

323

00:15:24,949 --> 00:15:23,040

capsule managed right here at johnson is

324

00:15:26,949 --> 00:15:24,959

how our astronauts are going to get to

325

00:15:29,910 --> 00:15:26,959

the moon and of course they're going to

326

00:15:32,310 --> 00:15:29,920

launch there on the sls rocket the most

327

00:15:35,110 --> 00:15:32,320

powerful rocket ever built which by the

328

00:15:37,110 --> 00:15:35,120

way is now core stage complete it is on

329

00:15:39,590 --> 00:15:37,120

a barge heading to the stennis space

330

00:15:41,590 --> 00:15:39,600

center for green run testing there is

331

00:15:44,150 --> 00:15:41,600

going to be fire and smoke coming out of

332

00:15:46,150 --> 00:15:44,160

the back end of that thing very soon and

333

00:15:58,150 --> 00:15:46,160

i use your nasa administrator i'm very

334

00:16:02,389 --> 00:15:59,829

so i want to extend my heartfelt

335

00:16:05,030 --> 00:16:02,399

congratulations to our newest astronaut

336

00:16:07,509 --> 00:16:05,040

class the turtles i am confident that

337

00:16:09,670 --> 00:16:07,519

part of the astronaut generation

338

00:16:11,430 --> 00:16:09,680

you will bring scientific and

339

00:16:13,910 --> 00:16:11,440

technological

340

00:16:15,990 --> 00:16:13,920

advantages and new things to this nation

341

00:16:17,910 --> 00:16:16,000

and in fact to the world that right now

342

00:16:19,829 --> 00:16:17,920

we can't even imagine

343

00:16:22,150 --> 00:16:19,839

and now i'd like to introduce my friend

344

00:16:24,870 --> 00:16:22,160

reid wiseman who is an astronaut who

345

00:16:27,269 --> 00:16:24,880

spent 165 days on the international

346

00:16:29,030 --> 00:16:27,279

space station he's done hundreds of

347

00:16:31,430 --> 00:16:29,040

science experiments on the international

348

00:16:33,670 --> 00:16:31,440

space station and i will say even more

349

00:16:34,629 --> 00:16:33,680

important than 165 days on the space

350

00:16:36,710 --> 00:16:34,639

station

351

00:16:37,749 --> 00:16:36,720

reed and i are both naval aviators and

352

00:16:40,470 --> 00:16:37,759

we spent

353

00:16:43,350 --> 00:16:40,480

long more than 165 days on the uss

354

00:16:54,550 --> 00:16:43,360

abraham lincoln back in 2003 so welcome

355

00:16:58,230 --> 00:16:56,470

thanks jim i appreciate that

356

00:16:59,670 --> 00:16:58,240

uh

357

00:17:01,509 --> 00:16:59,680

i don't really need to set the audience

358

00:17:02,949 --> 00:17:01,519

this is a great day there's a lot of

359

00:17:04,309 --> 00:17:02,959

motivation out there there's a lot of

360

00:17:06,230 --> 00:17:04,319

love and support from the families of

361

00:17:07,669 --> 00:17:06,240

the turtles you're here turtles a lot

362

00:17:10,309 --> 00:17:07,679

that's our that's our class name for

363

00:17:12,150 --> 00:17:10,319

these fine 13 and uh and it brings us

364

00:17:14,870 --> 00:17:12,160

joy to say that word turtle so i'll say

365

00:17:17,510 --> 00:17:16,069

we're happy to share this event with

366

00:17:18,710 --> 00:17:17,520

everyone here today i love seeing the

367

00:17:20,069 --> 00:17:18,720

pictures from the school kids that you

368

00:17:22,069 --> 00:17:20,079

were holding up earlier hopefully we'll

369

00:17:23,829 --> 00:17:22,079

see more of those later so relax have

370

00:17:26,230 --> 00:17:23,839

fun enjoy this this should be a jovial

371

00:17:27,990 --> 00:17:26,240

fun experience so a little over two

372

00:17:29,350 --> 00:17:28,000

years ago we brought in these these 13

373

00:17:31,270 --> 00:17:29,360

outstanding individuals from the

374

00:17:32,789 --> 00:17:31,280

absolute tops of their professions and

375

00:17:35,029 --> 00:17:32,799

the video behind me is going to show a

376

00:17:36,630 --> 00:17:35,039

recap of their two years of training

377

00:17:38,070 --> 00:17:36,640

this training was not meant to change

378

00:17:39,750 --> 00:17:38,080

who they are

379

00:17:40,789 --> 00:17:39,760

rather it was meant to make them

380

00:17:42,950 --> 00:17:40,799

competent

381

00:17:44,470 --> 00:17:42,960

in their new profession

382

00:17:47,270 --> 00:17:44,480

to give them an understanding of the

383

00:17:48,710 --> 00:17:47,280

many missions of our great space agency

384

00:17:49,990 --> 00:17:48,720

and to hone their team skills for

385

00:17:51,430 --> 00:17:50,000

long-duration spaceflight that's going

386

00:17:53,270 --> 00:17:51,440

to be pretty important

387

00:17:55,750 --> 00:17:53,280

it's demanding at times and it's

388

00:17:57,430 --> 00:17:55,760

extremely broad in material the turtles

389

00:17:58,630 --> 00:17:57,440

learn how to work together flying the

390

00:18:00,070 --> 00:17:58,640

t-38

391

00:18:01,669 --> 00:18:00,080

they've learned space walking skills

392

00:18:03,270 --> 00:18:01,679

underwater in our neutral buoyancy lab

393

00:18:05,270 --> 00:18:03,280

just right up the road they've learned

394

00:18:06,630 --> 00:18:05,280

about the international space station

395

00:18:08,870 --> 00:18:06,640

they've studied the building blocks of

396

00:18:11,029 --> 00:18:08,880

artemis the orion

397

00:18:12,310 --> 00:18:11,039

space launch system and the gateway

398

00:18:13,270 --> 00:18:12,320

and of course

399

00:18:15,190 --> 00:18:13,280

they've learned how to operate the

400

00:18:17,510 --> 00:18:15,200

canadian robotic arm

401
00:18:18,789 --> 00:18:17,520
they visited all 10 nasa field centers

402
00:18:20,950 --> 00:18:18,799
across the country and learned about the

403
00:18:23,430 --> 00:18:20,960
role of each of our critical centers and

404
00:18:25,990 --> 00:18:23,440
how they play in nasa's missions

405
00:18:29,270 --> 00:18:26,000
aeronautics rovers on mars satellites

406
00:18:30,789 --> 00:18:29,280
studying the earth the moon the sun

407
00:18:33,590 --> 00:18:30,799
missions reaching the furthest corners

408
00:18:34,950 --> 00:18:33,600
of our solar system and even beyond

409
00:18:38,070 --> 00:18:34,960
they completed wilderness and water

410
00:18:39,430 --> 00:18:38,080
survival training as a team

411
00:18:42,310 --> 00:18:39,440
they counted on each other time and

412
00:18:44,390 --> 00:18:42,320
again both professional and personal

413
00:18:45,990 --> 00:18:44,400

throughout these past two years

414

00:18:47,990 --> 00:18:46,000

this foundation is going to prepare them

415

00:18:49,990 --> 00:18:48,000

for living and working in space to be a

416

00:18:51,750 --> 00:18:50,000

part of the artemis generation and to

417

00:18:53,669 --> 00:18:51,760

contribute to our common goal of

418

00:18:55,510 --> 00:18:53,679

advancing humanity

419

00:18:57,990 --> 00:18:55,520

and continued research in low earth

420

00:18:59,830 --> 00:18:58,000

orbit a sustained presence on the moon

421

00:19:01,350 --> 00:18:59,840

and then one day on mars

422

00:19:04,230 --> 00:19:01,360

turtles

423

00:19:05,750 --> 00:19:04,240

we love you you are a great great group

424

00:19:07,669 --> 00:19:05,760

of humans

425

00:19:09,270 --> 00:19:07,679

we welcome your enthusiasm you will all

426

00:19:11,909 --> 00:19:09,280

see that today i promise

427

00:19:13,590 --> 00:19:11,919

we welcome your passion and most of all

428

00:19:15,430 --> 00:19:13,600

we absolutely welcome your hunger for

429

00:19:17,430 --> 00:19:15,440

exploration knowledge it is infectious

430

00:19:18,390 --> 00:19:17,440

and we feel it every day here

431

00:19:19,909 --> 00:19:18,400

and now

432

00:19:21,590 --> 00:19:19,919

i have the personal privilege to welcome

433

00:19:23,750 --> 00:19:21,600

to the podium a three-time shuttle

434

00:19:35,830 --> 00:19:23,760

astronaut and truly the finest leader i

435

00:19:39,430 --> 00:19:37,110

thanks reed

436

00:19:40,150 --> 00:19:39,440

it is indeed an honor

437

00:19:42,789 --> 00:19:40,160

and

438

00:19:43,280 --> 00:19:42,799

most days a joy to lead the astronaut

439

00:19:45,110 --> 00:19:43,290

court

440

00:19:47,590 --> 00:19:45,120

[Applause]

441

00:19:49,430 --> 00:19:47,600

i know our focus today is on this group

442

00:19:51,990 --> 00:19:49,440

that's on the stage but i can't go any

443

00:19:53,430 --> 00:19:52,000

farther without recognizing

444

00:19:55,190 --> 00:19:53,440

my colleagues

445

00:19:56,789 --> 00:19:55,200

the astronauts that are here you can

446

00:19:58,789 --> 00:19:56,799

identify them by their blue flight

447

00:20:01,029 --> 00:19:58,799

jackets because they're the ones that

448

00:20:03,830 --> 00:20:01,039

have carried this torch

449

00:20:06,070 --> 00:20:03,840

this far as we bring new people into the

450

00:20:08,230 --> 00:20:06,080

office i will tell you that when we go

451
00:20:11,430 --> 00:20:08,240
out and share what it's like to fly in

452
00:20:13,990 --> 00:20:11,440
space with people we love that but

453
00:20:16,149 --> 00:20:14,000
that's just to share the experience

454
00:20:19,029 --> 00:20:16,159
through words maybe sometimes some

455
00:20:20,950 --> 00:20:19,039
pictures or videos but it is so much fun

456
00:20:23,110 --> 00:20:20,960
when we bring a new group into the

457
00:20:24,230 --> 00:20:23,120
astronaut office and we know we're going

458
00:20:26,870 --> 00:20:24,240
to be able to

459
00:20:29,830 --> 00:20:26,880
share those actual experiences with them

460
00:20:32,870 --> 00:20:29,840
as we see them go to space

461
00:20:35,270 --> 00:20:32,880
it was probably just over 21 years ago

462
00:20:37,830 --> 00:20:35,280
when i was sitting in a seat just like

463
00:20:39,909 --> 00:20:37,840

that at my own graduation and there were

464

00:20:41,990 --> 00:20:39,919

a lot of similarities to that period of

465

00:20:44,630 --> 00:20:42,000

time as there are now we were

466

00:20:46,230 --> 00:20:44,640

kind of on the cusp of the next big

467

00:20:48,470 --> 00:20:46,240

thing

468

00:20:49,990 --> 00:20:48,480

the international space station and i

469

00:20:51,350 --> 00:20:50,000

remember there was no shortage of

470

00:20:53,110 --> 00:20:51,360

pictures

471

00:20:55,110 --> 00:20:53,120

artists rendering of what the space

472

00:20:57,430 --> 00:20:55,120

station would look like all around the

473

00:20:59,990 --> 00:20:57,440

johnson space center

474

00:21:01,909 --> 00:21:00,000

in cubicles and above desk

475

00:21:04,230 --> 00:21:01,919

of most of the employees and i remember

476
00:21:07,350 --> 00:21:04,240
looking at that picture and going

477
00:21:10,470 --> 00:21:07,360
man i don't know if we can really build

478
00:21:11,830 --> 00:21:10,480
this amazing thing in space

479
00:21:15,669 --> 00:21:11,840
and now

480
00:21:16,870 --> 00:21:15,679
20 years later we are celebrating

481
00:21:19,430 --> 00:21:16,880
the actual

482
00:21:21,590 --> 00:21:19,440
human presence on that space station for

483
00:21:23,590 --> 00:21:21,600
almost 20 years

484
00:21:25,990 --> 00:21:23,600
and the reason i tell that story is

485
00:21:28,710 --> 00:21:26,000
because we are now on the cusp of

486
00:21:31,990 --> 00:21:28,720
something big with artemis and going to

487
00:21:33,830 --> 00:21:32,000
the moon and for some people it may seem

488
00:21:35,430 --> 00:21:33,840

like it's something that can't be done

489

00:21:37,590 --> 00:21:35,440

but i promise you

490

00:21:39,909 --> 00:21:37,600

that in 20 years one of you is going to

491

00:21:42,230 --> 00:21:39,919

be standing up here telling of the

492

00:21:44,950 --> 00:21:42,240

adventures of going to the surface of

493

00:21:47,270 --> 00:21:44,960

the moon of having those experiences and

494

00:21:49,270 --> 00:21:47,280

sharing those with the next generation

495

00:21:52,789 --> 00:21:49,280

and i look forward to that it really can

496

00:21:54,230 --> 00:21:52,799

happen if you just stay the course

497

00:21:57,190 --> 00:21:54,240

now one of the things they wanted me to

498

00:21:59,270 --> 00:21:57,200

talk about was the pin that this the

499

00:22:01,510 --> 00:21:59,280

turtles are going to receive today it's

500

00:22:03,669 --> 00:22:01,520

got quite a history

501
00:22:06,070 --> 00:22:03,679
all the way back into the early 60s with

502
00:22:11,029 --> 00:22:06,080
the original mercury astronauts

503
00:22:15,990 --> 00:22:13,909
a individual pin that just represented

504
00:22:18,390 --> 00:22:16,000
the mercury astronauts and then as we

505
00:22:20,390 --> 00:22:18,400
moved into gemini and apollo it was

506
00:22:22,390 --> 00:22:20,400
decided and we brought more people into

507
00:22:24,950 --> 00:22:22,400
the office it was decided that we needed

508
00:22:27,669 --> 00:22:24,960
a pin that would represent everybody in

509
00:22:29,430 --> 00:22:27,679
the astronaut corps and you can see a

510
00:22:31,990 --> 00:22:29,440
picture of it there

511
00:22:34,789 --> 00:22:32,000
when we complete our training

512
00:22:36,870 --> 00:22:34,799
successfully we get a silver pin

513
00:22:40,549 --> 00:22:36,880

once an astronaut has flown in space

514

00:22:42,390 --> 00:22:40,559

that is exchanged for a gold pin now

515

00:22:44,470 --> 00:22:42,400

just to give you a little history about

516

00:22:46,630 --> 00:22:44,480

that pen it goes all the way back to

517

00:22:48,149 --> 00:22:46,640

it's stayed relatively the same since

518

00:22:50,390 --> 00:22:48,159

1963.

519

00:22:52,310 --> 00:22:50,400

there's one exception i think people

520

00:22:54,549 --> 00:22:52,320

know dick slayton in the first class

521

00:22:56,630 --> 00:22:54,559

that was medically disqualified from

522

00:22:58,950 --> 00:22:56,640

flying and he became the first chief of

523

00:23:01,909 --> 00:22:58,960

the astronaut office uh after the apollo

524

00:23:04,310 --> 00:23:01,919

one fire the the uh the wives the

525

00:23:07,430 --> 00:23:04,320

spouses of those astronauts

526
00:23:10,310 --> 00:23:07,440
decided to uh do something for him and

527
00:23:12,870 --> 00:23:10,320
they gave him an astronaut pin a gold

528
00:23:14,549 --> 00:23:12,880
pin representing

529
00:23:16,710 --> 00:23:14,559
the fact that

530
00:23:17,430 --> 00:23:16,720
you know representing flown space flight

531
00:23:19,270 --> 00:23:17,440
and

532
00:23:21,990 --> 00:23:19,280
in place of the star or in the center of

533
00:23:24,390 --> 00:23:22,000
the star was a diamond and they flew it

534
00:23:26,390 --> 00:23:24,400
on apollo 11 and then presented it to

535
00:23:28,470 --> 00:23:26,400
him that's been the only exception since

536
00:23:30,950 --> 00:23:28,480
then of what the pins look like i'll

537
00:23:32,630 --> 00:23:30,960
tell one other brief story and it is

538
00:23:35,830 --> 00:23:32,640

with apollo 12

539

00:23:37,830 --> 00:23:35,840

alan bean had replaced cece williams on

540

00:23:40,310 --> 00:23:37,840

that flight after cece williams was

541

00:23:41,190 --> 00:23:40,320

killed in a t-38 accident

542

00:23:50,710 --> 00:23:41,200

and

543

00:23:53,430 --> 00:23:50,720

threw those in a crater before leaving

544

00:23:55,430 --> 00:23:53,440

so i will tell you if one of you are on

545

00:23:57,269 --> 00:23:55,440

the surface of the moon and you do find

546

00:23:58,070 --> 00:23:57,279

one of those pins if you would leave it

547

00:24:00,070 --> 00:23:58,080

there

548

00:24:08,870 --> 00:24:00,080

we would appreciate it you'll get your

549

00:24:15,590 --> 00:24:11,350

i want to close with a quote

550

00:24:17,590 --> 00:24:15,600

by thomas payne back in 1776

551
00:24:20,310 --> 00:24:17,600
and it goes something like this that

552
00:24:22,870 --> 00:24:20,320
which is obtained cheaply

553
00:24:25,110 --> 00:24:22,880
we esteem lightly i hope when you

554
00:24:27,350 --> 00:24:25,120
receive your pin today with everything

555
00:24:28,470 --> 00:24:27,360
you've done to earn it that you esteem

556
00:24:31,909 --> 00:24:28,480
it greatly

557
00:24:34,870 --> 00:24:31,919
and now i get to turn the podium over to

558
00:24:36,149 --> 00:24:34,880
jeremy hansen it's really an honor to do

559
00:24:38,390 --> 00:24:36,159
that he was the mentor and the

560
00:24:40,310 --> 00:24:38,400
supervisor of this class there's a lot

561
00:24:43,029 --> 00:24:40,320
of people out here in the audience that

562
00:24:45,110 --> 00:24:43,039
had a lot to do with training this class

563
00:24:47,510 --> 00:24:45,120

we are very good at teaching people how

564

00:24:49,110 --> 00:24:47,520

to fly in space but there's one other

565

00:24:51,590 --> 00:24:49,120

important component that's very

566

00:24:53,510 --> 00:24:51,600

important to me and that's character

567

00:24:55,750 --> 00:24:53,520

and the person that gets to lead a brand

568

00:24:57,830 --> 00:24:55,760

new astronaut class in

569

00:25:00,149 --> 00:24:57,840

is somebody that we trust to instill

570

00:25:01,909 --> 00:25:00,159

character in those individuals and i

571

00:25:16,070 --> 00:25:01,919

can't think of anyone that could have

572

00:25:19,990 --> 00:25:17,669

thank you pat those are generous words

573

00:25:22,149 --> 00:25:20,000

indeed let me start uh this morning just

574

00:25:24,070 --> 00:25:22,159

by saying a few words on behalf of the

575

00:25:26,230 --> 00:25:24,080

canadian space agency president sylvain

576

00:25:28,149 --> 00:25:26,240

laporte he truly intended to be here

577

00:25:30,070 --> 00:25:28,159

today but some travel complications

578

00:25:32,070 --> 00:25:30,080

prevented that and i know he'd want me

579

00:25:34,149 --> 00:25:32,080

to start by welcoming all our canadian

580

00:25:36,310 --> 00:25:34,159

space agency employees that are watching

581

00:25:38,390 --> 00:25:36,320

online right now so thanks for joining

582

00:25:40,789 --> 00:25:38,400

us today

583

00:25:42,710 --> 00:25:40,799

avenue slay canadian can you end on ling

584

00:25:44,870 --> 00:25:42,720

orgy

585

00:25:46,870 --> 00:25:44,880

in fact today we're continuing a

586

00:25:48,549 --> 00:25:46,880

long-standing tradition

587

00:25:50,630 --> 00:25:48,559

so josh and jenny are canadian

588

00:25:52,549 --> 00:25:50,640

astronauts on the stage are the fourth

589

00:25:55,830 --> 00:25:52,559

class that canada has hired as

590

00:25:57,830 --> 00:25:55,840

astronauts and thanks to the tremendous

591

00:25:59,750 --> 00:25:57,840

relationship we've had with nasa all of

592

00:26:01,830 --> 00:25:59,760

those astronauts all of those classes

593

00:26:04,070 --> 00:26:01,840

have trained right here at the johnson

594

00:26:05,909 --> 00:26:04,080

space center starting by dating back to

595

00:26:07,110 --> 00:26:05,919

1983.

596

00:26:09,430 --> 00:26:07,120

and

597

00:26:13,510 --> 00:26:09,440

i have to tell you that canada truly

598

00:26:16,149 --> 00:26:13,520

appreciates american space leadership

599

00:26:18,149 --> 00:26:16,159

you have you have set big goals and by

600

00:26:20,310 --> 00:26:18,159

setting those big goals and inviting the

601
00:26:21,830 --> 00:26:20,320
international partners to participate we

602
00:26:22,789 --> 00:26:21,840
have accomplished incredible things

603
00:26:24,950 --> 00:26:22,799
together

604
00:26:27,590 --> 00:26:24,960
and once again you're doing it you're

605
00:26:30,549 --> 00:26:27,600
leading one more time you're set a big

606
00:26:33,269 --> 00:26:30,559
goal with artemis and canada is rallied

607
00:26:34,950 --> 00:26:33,279
by that and super excited and proud to

608
00:26:36,870 --> 00:26:34,960
have already fully committed to joining

609
00:26:38,870 --> 00:26:36,880
the program we're already working on a

610
00:26:41,190 --> 00:26:38,880
next generation of space robotics to

611
00:26:42,470 --> 00:26:41,200
help enable the gateway for future lunar

612
00:26:44,390 --> 00:26:42,480
exploration

613
00:26:46,630 --> 00:26:44,400

and by continuing to partner like we've

614

00:26:48,390 --> 00:26:46,640

done we're going to pursue knowledge and

615

00:26:50,710 --> 00:26:48,400

we're going to bring back even greater

616

00:26:53,669 --> 00:26:50,720

benefits to humanity and we're super

617

00:26:54,950 --> 00:26:53,679

proud to do that alongside of you

618

00:27:02,630 --> 00:26:54,960

and as my

619

00:27:06,549 --> 00:27:04,630

and in my role as class supervisor i

620

00:27:07,510 --> 00:27:06,559

have to say it's been just an absolute

621

00:27:09,590 --> 00:27:07,520

honor

622

00:27:12,390 --> 00:27:09,600

i it's been a journey for me these are

623

00:27:13,750 --> 00:27:12,400

my subordinates my colleagues and my

624

00:27:16,070 --> 00:27:13,760

friends

625

00:27:18,389 --> 00:27:16,080

and i have to i could speak at length

626

00:27:21,909 --> 00:27:18,399

about their their dedication their

627

00:27:23,750 --> 00:27:21,919

operational competence their work ethic

628

00:27:25,430 --> 00:27:23,760

but they just truly have excelled at

629

00:27:27,590 --> 00:27:25,440

everything we've asked them to do and

630

00:27:29,590 --> 00:27:27,600

we've asked a lot trust me

631

00:27:31,110 --> 00:27:29,600

over the last two and a half years

632

00:27:32,630 --> 00:27:31,120

but what i think is most relevant to

633

00:27:35,430 --> 00:27:32,640

share with you today especially for the

634

00:27:37,830 --> 00:27:35,440

youth who are watching is

635

00:27:39,590 --> 00:27:37,840

how remarkable their work has been in

636

00:27:41,269 --> 00:27:39,600

the area of team skills and it's already

637

00:27:43,269 --> 00:27:41,279

been mentioned a couple times today but

638

00:27:44,549 --> 00:27:43,279

it in my mind that is their biggest

639

00:27:47,350 --> 00:27:44,559

accomplishment

640

00:27:49,430 --> 00:27:47,360

i i set out with the help of others to

641

00:27:51,510 --> 00:27:49,440

envision

642

00:27:53,190 --> 00:27:51,520

opportunities for them to really invest

643

00:27:55,350 --> 00:27:53,200

in themselves and to push themselves in

644

00:27:57,430 --> 00:27:55,360

those areas and i have to tell you i'm

645

00:27:59,510 --> 00:27:57,440

so proud because they took that vision

646

00:28:02,470 --> 00:27:59,520

they embodied it but then they blew

647

00:28:04,630 --> 00:28:02,480

right past it well beyond it and in the

648

00:28:06,630 --> 00:28:04,640

end i ended up learning more from them

649

00:28:08,710 --> 00:28:06,640

than i ever intended to teach and i

650

00:28:11,190 --> 00:28:08,720

think that is just an extraordinary

651

00:28:13,669 --> 00:28:11,200

compliment for the turtles

652

00:28:15,750 --> 00:28:13,679

we we here here in in the space program

653

00:28:18,789 --> 00:28:15,760

we truly value those team skills because

654

00:28:20,950 --> 00:28:18,799

we we recognize that that those high

655

00:28:22,789 --> 00:28:20,960

performing teams are what enable us to

656

00:28:24,470 --> 00:28:22,799

get the job done in space whether

657

00:28:26,789 --> 00:28:24,480

astronauts are working with the ground

658

00:28:29,029 --> 00:28:26,799

teams that are making it all possible or

659

00:28:31,269 --> 00:28:29,039

amongst themselves trapped in a tin can

660

00:28:35,430 --> 00:28:31,279

in the vacuum of space

661

00:28:37,190 --> 00:28:35,440

and i watch the turtles truly dig into

662

00:28:38,950 --> 00:28:37,200

excellent communication skills where

663

00:28:41,110 --> 00:28:38,960

you're you're truly trying to understand

664

00:28:42,310 --> 00:28:41,120

the perspectives and the challenges of

665

00:28:44,230 --> 00:28:42,320

other people that you're working with

666

00:28:46,630 --> 00:28:44,240

and then using all of that being

667

00:28:48,789 --> 00:28:46,640

adaptive and creating solutions

668

00:28:50,630 --> 00:28:48,799

and in the end the turtles have earned

669

00:28:51,909 --> 00:28:50,640

my absolute trust

670

00:28:54,310 --> 00:28:51,919

and it would be nothing short of an

671

00:29:04,950 --> 00:28:54,320

honor to fly with absolutely any single

672

00:29:10,149 --> 00:29:06,710

so let me just end with in the final

673

00:29:12,389 --> 00:29:10,159

analysis i cannot cannot imagine having

674

00:29:13,770 --> 00:29:12,399

seen anyone do it better than you

675

00:29:24,630 --> 00:29:13,780

well done turtles

676

00:29:26,230 --> 00:29:24,640

[Applause]

677

00:29:31,669 --> 00:29:26,240

i think it's time to begin the process

678

00:29:34,870 --> 00:29:33,590

one pretty historic milestone that's not

679

00:29:37,350 --> 00:29:34,880

turtle related at all that i think is

680

00:29:39,190 --> 00:29:37,360

worth sharing just real briefly uh

681

00:29:41,110 --> 00:29:39,200

and pat just whispered it into my ear

682

00:29:42,549 --> 00:29:41,120

how cool it is right now that christina

683

00:29:45,669 --> 00:29:42,559

cook on the international space station

684

00:29:56,070 --> 00:29:45,679

just yesterday went to 300 days

685

00:29:59,350 --> 00:29:57,590

but why that's important at this moment

686

00:30:01,269 --> 00:29:59,360

right after what jeremy just said she's

687

00:30:03,029 --> 00:30:01,279

a rookie this is her first mission i

688

00:30:04,549 --> 00:30:03,039

mean that is amazing that is an amazing

689

00:30:06,310 --> 00:30:04,559

accomplishment and uh it's a true

690

00:30:08,070 --> 00:30:06,320

testament to her team skills as well

691

00:30:09,669 --> 00:30:08,080

okay so let's uh let's start the pinning

692

00:30:12,389 --> 00:30:09,679

process i'd like to welcome back to the

693

00:30:14,070 --> 00:30:12,399

stage uh chief astronaut pat forrester

694

00:30:16,310 --> 00:30:14,080

uh from the canadian space agency jeremy

695

00:30:18,789 --> 00:30:16,320

hanson our administrator jim breinstein

696

00:30:21,410 --> 00:30:18,799

our center director mark guyer and our

697

00:30:32,389 --> 00:30:21,420

deputy center director vanessa weiss

698

00:30:33,830 --> 00:30:32,399

[Applause]

699

00:30:35,190 --> 00:30:33,840

all right for a little bit of admin for

700

00:30:37,750 --> 00:30:35,200

the audience and for those watching on

701
00:30:38,870 --> 00:30:37,760
tv as i call each of uh of our beloved

702
00:30:40,389 --> 00:30:38,880
turtles up

703
00:30:41,669 --> 00:30:40,399
uh

704
00:30:44,230 --> 00:30:41,679
i've heard a rumor that one of your

705
00:30:46,630 --> 00:30:44,240
classmates is going to tell just a

706
00:30:48,470 --> 00:30:46,640
little story about the why they want to

707
00:30:50,070 --> 00:30:48,480
explore the unknown with you and as you

708
00:30:52,070 --> 00:30:50,080
know succeeding in space requires

709
00:30:54,070 --> 00:30:52,080
technical smarts to complete the mission

710
00:30:55,990 --> 00:30:54,080
to complete the research but it also

711
00:30:57,750 --> 00:30:56,000
requires those critical team skills and

712
00:31:00,710 --> 00:30:57,760
perhaps a little levity

713
00:31:01,909 --> 00:31:00,720

uh to live together off the planet in a

714

00:31:04,230 --> 00:31:01,919

secluded

715

00:31:05,590 --> 00:31:04,240

amazing environment for months or years

716

00:31:08,149 --> 00:31:05,600

in a spacecraft so i'm looking forward

717

00:31:09,909 --> 00:31:08,159

to hearing these stories a little levity

718

00:31:11,269 --> 00:31:09,919

and we're going to welcome each new

719

00:31:12,950 --> 00:31:11,279

astronaut individually they'll come

720

00:31:15,669 --> 00:31:12,960

across to get their pins

721

00:31:17,190 --> 00:31:15,679

and unlike college graduations and high

722

00:31:21,269 --> 00:31:17,200

school graduations

723

00:31:24,070 --> 00:31:21,279

and perhaps kindergarten graduations

724

00:31:36,789 --> 00:31:24,080

applause and expressions of excitement

725

00:31:53,029 --> 00:31:38,470

all right nasa family and friends our

726

00:31:57,669 --> 00:31:55,509

morning i'm jasmine mcbelly and while

727

00:32:00,310 --> 00:31:57,679

while there are many many reasons i

728

00:32:02,870 --> 00:32:00,320

would absolutely love to explore space

729

00:32:05,190 --> 00:32:02,880

with kayla amongst them being i want my

730

00:32:07,190 --> 00:32:05,200

roommate back

731

00:32:09,990 --> 00:32:07,200

one of the things i admire most about

732

00:32:11,990 --> 00:32:10,000

kayla is her willingness to stand up and

733

00:32:14,230 --> 00:32:12,000

speak the truth even when it's really

734

00:32:17,029 --> 00:32:14,240

difficult and when no one else wants to

735

00:32:19,350 --> 00:32:17,039

do it i think that courage and integrity

736

00:32:21,830 --> 00:32:19,360

is really important in what we do

737

00:32:23,750 --> 00:32:21,840

and so kayla whether i'm with you or not

738

00:32:25,909 --> 00:32:23,760

when you get to space i can't wait to

739

00:32:27,669 --> 00:32:25,919

see all the amazing things you're gonna

740

00:32:37,350 --> 00:32:27,679

do up there

741

00:32:54,310 --> 00:32:39,430

ladies and gentlemen our newest

742

00:32:54,320 --> 00:33:05,990

congrats kayla next we have zina cardman

743

00:33:11,190 --> 00:33:08,710

good morning i'm jenny seidi gibbons

744

00:33:13,110 --> 00:33:11,200

and xena's technical ability and

745

00:33:15,190 --> 00:33:13,120

operational insight will ensure that

746

00:33:17,509 --> 00:33:15,200

she's a success no matter what mission

747

00:33:20,789 --> 00:33:17,519

she is on but the thing that excites me

748

00:33:23,029 --> 00:33:20,799

most about the idea of z flying in space

749

00:33:25,590 --> 00:33:23,039

is what she's going to share with us

750

00:33:27,830 --> 00:33:25,600

when she looks back at our own planet

751

00:33:29,750 --> 00:33:27,840

now zee has this really

752

00:33:33,590 --> 00:33:29,760

unique ability

753

00:33:34,870 --> 00:33:33,600

to talk about our earth in a way that is

754

00:33:36,389 --> 00:33:34,880

inspiring

755

00:33:38,470 --> 00:33:36,399

and poetic

756

00:33:39,980 --> 00:33:38,480

and i think that when she is in whatever

757

00:33:42,470 --> 00:33:39,990

orbit we put her in

758

00:33:45,430 --> 00:33:42,480

[Laughter]

759

00:33:47,350 --> 00:33:45,440

and she comments on our earth from her

760

00:33:49,190 --> 00:33:47,360

celestial vantage point

761

00:33:51,269 --> 00:33:49,200

she will share some of the most

762

00:34:01,430 --> 00:33:51,279

beautiful things that any of us have

763

00:34:16,790 --> 00:34:03,190

ladies and gentlemen our newest

764

00:34:30,470 --> 00:34:20,180

congrats xena next up we have raja chari

765

00:34:33,190 --> 00:34:30,480

[Applause]

766

00:34:36,310 --> 00:34:33,200

i'm jessica watkins and i would love to

767

00:34:38,069 --> 00:34:36,320

explore space with raja because you can

768

00:34:41,190 --> 00:34:38,079

always count on him

769

00:34:44,069 --> 00:34:41,200

you can count on him to get things done

770

00:34:45,190 --> 00:34:44,079

small things hard things mundane things

771

00:34:46,869 --> 00:34:45,200

alike

772

00:34:48,470 --> 00:34:46,879

and you can count on him to do them

773

00:34:50,389 --> 00:34:48,480

without being asked

774

00:34:51,270 --> 00:34:50,399

you can count on him

775

00:34:54,230 --> 00:34:51,280

to

776

00:34:55,510 --> 00:34:54,240

believe in you when you need an advocate

777

00:34:56,470 --> 00:34:55,520

to

778

00:35:00,950 --> 00:34:56,480

uh

779

00:35:04,630 --> 00:35:02,630

you can

780

00:35:06,550 --> 00:35:04,640

count on him to be there for you when

781

00:35:08,630 --> 00:35:06,560

you need him you can count on him to

782

00:35:12,150 --> 00:35:08,640

volunteer for you when you need a

783

00:35:16,310 --> 00:35:14,470

but most of all you can count on grindr

784

00:35:18,950 --> 00:35:16,320

to put the needs of the team above his

785

00:35:28,230 --> 00:35:18,960

own every time and i truly admire him

786

00:35:39,600 --> 00:35:29,829

ladies and gentlemen our newest

787

00:35:58,470 --> 00:35:46,550

[Applause]

788

00:36:02,710 --> 00:36:00,069

i'm laura o'hara

789

00:36:05,109 --> 00:36:02,720

pojo brings a lot of energy to our team

790

00:36:06,950 --> 00:36:05,119

he is always looking for ways to make

791

00:36:09,829 --> 00:36:06,960

things better for all of us and he is

792

00:36:11,349 --> 00:36:09,839

always definitely 100 percent in in

793

00:36:13,430 --> 00:36:11,359

anything he does

794

00:36:16,069 --> 00:36:13,440

he's the kind of person who when his car

795

00:36:17,750 --> 00:36:16,079

breaks gives it to two arguably novice

796

00:36:21,990 --> 00:36:17,760

mechanic friends just to give us the

797

00:36:33,829 --> 00:36:23,750

pojo you're a good friend and you make

798

00:36:38,590 --> 00:36:36,069

ladies and gentlemen our newest astro

799

00:36:51,430 --> 00:36:38,600

astronaut matthew dominic

800

00:37:04,550 --> 00:36:53,030

i'll let their hands calm down for a

801
00:37:08,790 --> 00:37:06,550
hi my name is kayla and i would love to

802
00:37:11,190 --> 00:37:08,800
explore space with farmer for a lot of

803
00:37:13,750 --> 00:37:11,200
reasons he comes to us as a t-38

804
00:37:15,910 --> 00:37:13,760
instructor pilot and i've flown with him

805
00:37:17,349 --> 00:37:15,920
a lot of times and he's proven himself

806
00:37:19,589 --> 00:37:17,359
to be an excellent pilot but more

807
00:37:21,589 --> 00:37:19,599
importantly to me a skilled and patient

808
00:37:23,349 --> 00:37:21,599
teacher to newbies and somebody who

809
00:37:25,270 --> 00:37:23,359
makes sound decisions even when things

810
00:37:27,109 --> 00:37:25,280
aren't going according to plan

811
00:37:28,710 --> 00:37:27,119
more importantly to me though he's an

812
00:37:30,630 --> 00:37:28,720
open and honest teammate who's always

813
00:37:32,630 --> 00:37:30,640

ready and willing to invest the time and

814

00:37:34,470 --> 00:37:32,640

energy needed to make sure every single

815

00:37:36,870 --> 00:37:34,480

member of our team is performing at

816

00:37:39,270 --> 00:37:36,880

their best and he's always been there to

817

00:37:41,190 --> 00:37:39,280

help us along the way as we learn

818

00:37:59,750 --> 00:37:41,200

ladies and gentlemen our newest

819

00:37:59,760 --> 00:38:09,910

warren hoberg

820

00:38:13,510 --> 00:38:11,829

i'm raj achary and the reason i'd want

821

00:38:14,950 --> 00:38:13,520

to go space with woody isn't just

822

00:38:16,470 --> 00:38:14,960

because he's brilliant which he is but

823

00:38:17,750 --> 00:38:16,480

it's because he carries his brilliance

824

00:38:19,270 --> 00:38:17,760

in such a way that you don't feel like

825

00:38:20,710 --> 00:38:19,280

you're an idiot when you're around him

826

00:38:25,670 --> 00:38:20,720

which

827

00:38:27,430 --> 00:38:25,680

in this room are compared to him

828

00:38:28,950 --> 00:38:27,440

uh the other great thing about woody's

829

00:38:30,310 --> 00:38:28,960

he applies that brilliance across all

830

00:38:32,230 --> 00:38:30,320

phases of his life whether it's in the

831

00:38:33,430 --> 00:38:32,240

outdoors where he basically saved half

832

00:38:35,829 --> 00:38:33,440

our class from getting severe

833

00:38:38,069 --> 00:38:35,839

hypothermia like it was no big deal

834

00:38:40,150 --> 00:38:38,079

and then uh on his very first space

835

00:38:41,510 --> 00:38:40,160

station sim nonchalantly directed the

836

00:38:43,109 --> 00:38:41,520

whole team through an emergency response

837

00:38:44,790 --> 00:38:43,119

like he done it a hundred times so i

838

00:38:47,270 --> 00:38:44,800

can't wait to be assigned with you woody

839

00:39:02,870 --> 00:38:47,280

and ladies and gentlemen our next newest

840

00:39:02,880 --> 00:39:14,470

johnny kim

841

00:39:17,990 --> 00:39:16,150

good morning everyone i'm joshua kutrick

842

00:39:20,150 --> 00:39:18,000

of canada and as i was thinking about

843

00:39:21,910 --> 00:39:20,160

johnny it occurred to me that as a child

844

00:39:23,829 --> 00:39:21,920

dreaming about how a nasa astronaut

845

00:39:26,630 --> 00:39:23,839

might live their life out i think i was

846

00:39:29,030 --> 00:39:26,640

probably thinking of johnny uh to me he

847

00:39:31,430 --> 00:39:29,040

is the perfect manifestation of service

848

00:39:33,750 --> 00:39:31,440

above self of service to one's country

849

00:39:35,430 --> 00:39:33,760

of service to the operational mission uh

850

00:39:37,670 --> 00:39:35,440

he's relentless in his pursuit of

851
00:39:39,829 --> 00:39:37,680
self-study and preparation and training

852
00:39:41,190 --> 00:39:39,839
he's very quick to put others needs

853
00:39:43,589 --> 00:39:41,200
above his own

854
00:39:45,670 --> 00:39:43,599
and importantly he's always been the

855
00:39:47,190 --> 00:39:45,680
calm in the storm he's always been the

856
00:39:49,510 --> 00:39:47,200
cool and the collected voice and some of

857
00:39:51,190 --> 00:39:49,520
the more stressful and chaotic training

858
00:39:53,670 --> 00:39:51,200
situations that were placed in as a

859
00:39:56,510 --> 00:39:53,680
group so i would trust my life to him

860
00:40:09,349 --> 00:39:56,520
and i'm very proud to call my friend

861
00:40:11,109 --> 00:40:09,359
[Applause]

862
00:40:29,510 --> 00:40:11,119
ladies and gentlemen the newest nasa

863
00:40:40,680 --> 00:40:31,750

from the canadian space agency josh

864

00:40:45,349 --> 00:40:42,790

[Music]

865

00:40:47,030 --> 00:40:45,359

i'm xena cardman josh was my first and

866

00:40:48,950 --> 00:40:47,040

most frequent partner in spacewalk

867

00:40:50,550 --> 00:40:48,960

training and in that as in all of our

868

00:40:52,870 --> 00:40:50,560

training he makes it look easy with a

869

00:40:54,550 --> 00:40:52,880

calm competence i think we'd be lucky to

870

00:40:57,430 --> 00:40:54,560

fly with him for his technical skills

871

00:40:59,589 --> 00:40:57,440

alone but josh also has a special talent

872

00:41:02,470 --> 00:40:59,599

for making his crewmates really feel

873

00:41:04,790 --> 00:41:02,480

empowered he listens deeply and makes

874

00:41:06,630 --> 00:41:04,800

you feel truly heard

875

00:41:08,950 --> 00:41:06,640

i think i trust him with my life just as

876

00:41:11,910 --> 00:41:08,960

i trust him to catch the most subtle

877

00:41:13,510 --> 00:41:11,920

jokes getting to see

878

00:41:15,349 --> 00:41:13,520

getting to see that twinkle in josh

879

00:41:17,430 --> 00:41:15,359

kutric's eye really feels like the

880

00:41:19,030 --> 00:41:17,440

greatest tomlin ever

881

00:41:20,550 --> 00:41:19,040

josh congratulations you're excellent

882

00:41:28,309 --> 00:41:20,560

and i'm lucky to call you a friend and a

883

00:41:37,190 --> 00:41:30,390

ladies and gentlemen our newest

884

00:41:37,200 --> 00:41:47,120

uh

885

00:41:54,309 --> 00:41:50,150

[Applause]

886

00:41:54,319 --> 00:42:05,109

jasmine mcbelly

887

00:42:08,470 --> 00:42:07,270

i'm johnny kim

888

00:42:09,990 --> 00:42:08,480

dependable

889

00:42:11,270 --> 00:42:10,000

compassionate

890

00:42:12,550 --> 00:42:11,280

intelligent

891

00:42:14,150 --> 00:42:12,560

resilient

892

00:42:16,790 --> 00:42:14,160

and fierce

893

00:42:19,430 --> 00:42:16,800

for all these reasons and more is why

894

00:42:21,750 --> 00:42:19,440

jaws is the perfect crewmate i'd go and

895

00:42:23,589 --> 00:42:21,760

devoid a space with

896

00:42:26,470 --> 00:42:23,599

but the main reason jaws

897

00:42:28,950 --> 00:42:26,480

why i'd go to space with you

898

00:42:31,430 --> 00:42:28,960

is because of your unwavering loyalty

899

00:42:47,030 --> 00:42:31,440

and integrity

900

00:43:05,750 --> 00:42:49,109

ladies and gentlemen your newest

901
00:43:05,760 --> 00:43:17,030
laura o'hara

902
00:43:20,550 --> 00:43:19,030
i'm frank rubio and i would love to go

903
00:43:22,390 --> 00:43:20,560
to space with laurel i've been fortunate

904
00:43:24,150 --> 00:43:22,400
enough to do some really tough training

905
00:43:25,510 --> 00:43:24,160
with her and i can tell you that she is

906
00:43:27,990 --> 00:43:25,520
incredibly smart

907
00:43:30,069 --> 00:43:28,000
she is strong

908
00:43:31,670 --> 00:43:30,079
tough as nails and she can run any of us

909
00:43:33,349 --> 00:43:31,680
into the ground

910
00:43:35,190 --> 00:43:33,359
intellectually and physically she's as

911
00:43:37,750 --> 00:43:35,200
good as it gets but what you really need

912
00:43:39,270 --> 00:43:37,760
to know about laurel is that she's kind

913
00:43:42,470 --> 00:43:39,280

she's caring

914

00:43:44,069 --> 00:43:42,480

and she laughs and smiles very easily

915

00:43:45,829 --> 00:43:44,079

she has a heart of gold and she's an

916

00:43:47,109 --> 00:43:45,839

incredible teammate

917

00:44:07,589 --> 00:43:47,119

ladies and gentlemen your newest

918

00:44:07,599 --> 00:44:17,990

frank rubio

919

00:44:22,309 --> 00:44:20,550

my name is bob hines i frank and i had

920

00:44:23,670 --> 00:44:22,319

probably 80 of our training events

921

00:44:26,470 --> 00:44:23,680

together so i got to know frank pretty

922

00:44:27,190 --> 00:44:26,480

well over the last couple years and uh

923

00:44:30,950 --> 00:44:27,200

he

924

00:44:32,150 --> 00:44:30,960

reliable and honest people that you'll

925

00:44:34,069 --> 00:44:32,160

ever meet

926

00:44:35,910 --> 00:44:34,079

and probably little known fact other

927

00:44:38,470 --> 00:44:35,920

than to those of us up here on stage is

928

00:44:40,470 --> 00:44:38,480

that he is a friend to all animals

929

00:44:43,190 --> 00:44:40,480

the general population of ducks and

930

00:44:45,190 --> 00:44:43,200

pelicans in the area is uh owns a lot of

931

00:44:46,470 --> 00:44:45,200

their lives in no small part to frank

932

00:44:48,790 --> 00:44:46,480

and his family

933

00:44:50,630 --> 00:44:48,800

for all the rescues that they do so

934

00:44:59,109 --> 00:44:50,640

on behalf of the animal kingdom we thank

935

00:45:03,829 --> 00:45:02,069

but frank is truly a a wonderful person

936

00:45:05,270 --> 00:45:03,839

he is a great american and even better

937

00:45:06,950 --> 00:45:05,280

human being and he's going to make an

938

00:45:08,790 --> 00:45:06,960

awesome astronaut

939

00:45:10,069 --> 00:45:08,800

and i really look forward and hope i get

940

00:45:11,349 --> 00:45:10,079

the chance to go to space with him one

941

00:45:13,190 --> 00:45:11,359

day

942

00:45:29,589 --> 00:45:13,200

ladies and gentlemen our newest

943

00:45:40,950 --> 00:45:31,589

from the canadian space agency jenny

944

00:45:44,069 --> 00:45:42,550

i'm woody hoberg

945

00:45:45,510 --> 00:45:44,079

i would love to go to space to jenny

946

00:45:47,750 --> 00:45:45,520

because she has this infectious

947

00:45:49,990 --> 00:45:47,760

curiosity about the world around her

948

00:45:51,589 --> 00:45:50,000

it's been i have so many fond memories

949

00:45:53,430 --> 00:45:51,599

from trips with jenny and our

950

00:45:55,910 --> 00:45:53,440

engineering discussions whether it's

951
00:45:57,430 --> 00:45:55,920
looking at a rocket and wondering why is

952
00:45:59,430 --> 00:45:57,440
that beam there

953
00:46:01,829 --> 00:45:59,440
or standing in an ice cream line

954
00:46:02,630 --> 00:46:01,839
calculating vortex shedding frequency or

955
00:46:04,790 --> 00:46:02,640
just

956
00:46:06,710 --> 00:46:04,800
really seeing the optimism and all the

957
00:46:10,069 --> 00:46:06,720
small things in life

958
00:46:12,230 --> 00:46:10,079
jenny is an outrageously effective crew

959
00:46:13,910 --> 00:46:12,240
member she's outrageously smart she's

960
00:46:15,910 --> 00:46:13,920
outrageously fun to be around and she's

961
00:46:17,829 --> 00:46:15,920
just going to be a fantastic crewmate

962
00:46:37,750 --> 00:46:17,839
ladies and gentlemen our newest

963
00:46:49,349 --> 00:46:39,490

jessica watkins

964

00:46:51,109 --> 00:46:49,359

[Applause]

965

00:46:53,829 --> 00:46:51,119

i'm matthew dominic

966

00:46:55,910 --> 00:46:53,839

would i crawl into a small spacecraft

967

00:46:57,349 --> 00:46:55,920

for months at a time with wadi

968

00:47:00,550 --> 00:46:57,359

absolutely

969

00:47:03,349 --> 00:47:00,560

and i knew it on day one

970

00:47:06,390 --> 00:47:03,359

i was running my mouth about something

971

00:47:08,550 --> 00:47:06,400

and she immediately called me out for it

972

00:47:09,910 --> 00:47:08,560

and i knew right then and there she was

973

00:47:11,510 --> 00:47:09,920

going to be an incredible teammate and

974

00:47:13,910 --> 00:47:11,520

colleague and friend

975

00:47:16,470 --> 00:47:13,920

nothing beats honest feedback on a team

976
00:47:17,670 --> 00:47:16,480
she's talented she's a natural operator

977
00:47:18,870 --> 00:47:17,680
she's tough

978
00:47:21,030 --> 00:47:18,880
she's not only the person you want to

979
00:47:22,870 --> 00:47:21,040
hang out with on a friday night

980
00:47:24,870 --> 00:47:22,880
i trust her with my life on the most

981
00:47:26,390 --> 00:47:24,880
daring of space flights

982
00:48:37,109 --> 00:47:26,400
ladies and gentlemen

983
00:48:46,069 --> 00:48:39,829
now that you are astronauts is there

984
00:48:49,510 --> 00:48:47,750
sure so there's been a lot of clapping

985
00:48:50,870 --> 00:48:49,520
for us today but we wanted to make sure

986
00:48:52,630 --> 00:48:50,880
on behalf of the turtles that we we

987
00:48:54,630 --> 00:48:52,640
clapped for those who really deserved it

988
00:48:56,710 --> 00:48:54,640

uh so first i want to thank those who

989

00:48:58,470 --> 00:48:56,720

put today together uh anyone who's put

990

00:49:00,309 --> 00:48:58,480

together ceremonies like this knows they

991

00:49:01,910 --> 00:49:00,319

don't just happen magically there's a

992

00:49:02,790 --> 00:49:01,920

lot of hard work that goes on beyond the

993

00:49:04,710 --> 00:49:02,800

scenes

994

00:49:06,230 --> 00:49:04,720

so you know steph castillo lori wheaton

995

00:49:07,829 --> 00:49:06,240

brandy and megan were just a handful of

996

00:49:09,990 --> 00:49:07,839

people who've been answering emails and

997

00:49:11,510 --> 00:49:10,000

phone calls way later than they should

998

00:49:13,349 --> 00:49:11,520

but i walked in yesterday before the

999

00:49:15,190 --> 00:49:13,359

rehearsal and there was a

1000

00:49:16,549 --> 00:49:15,200

group photo of the external relations

1001
00:49:18,150 --> 00:49:16,559
team that was being taken for the people

1002
00:49:19,670 --> 00:49:18,160
who put this together and filled this

1003
00:49:21,750 --> 00:49:19,680
entire stage

1004
00:49:23,190 --> 00:49:21,760
so to those of you who helped do that

1005
00:49:33,430 --> 00:49:23,200
thank you for making this a special day

1006
00:49:37,109 --> 00:49:35,510
uh next i want to thank the instructors

1007
00:49:38,950 --> 00:49:37,119
uh the first kind of instructors are

1008
00:49:40,549 --> 00:49:38,960
technical instructors so we are the ones

1009
00:49:42,549 --> 00:49:40,559
on the stage and they get to launch but

1010
00:49:45,109 --> 00:49:42,559
we're just symbols uh symbols for you at

1011
00:49:46,630 --> 00:49:45,119
jsc the nasa centers and really around

1012
00:49:47,990 --> 00:49:46,640
the world

1013
00:49:49,589 --> 00:49:48,000

we're not up here because we were

1014

00:49:51,910 --> 00:49:49,599

amazing we're up here because you were

1015

00:49:53,750 --> 00:49:51,920

amazing there's not a fastener that gets

1016

00:49:55,510 --> 00:49:53,760

turned on the station without you a

1017

00:49:57,829 --> 00:49:55,520

flight in the t-38 that happens without

1018

00:50:00,230 --> 00:49:57,839

you a spacewalk that doesn't happen with

1019

00:50:02,470 --> 00:50:00,240

years of training in the nbl without you

1020

00:50:05,750 --> 00:50:02,480

or even conversations in russian which

1021

00:50:07,910 --> 00:50:05,760

are frustratingly difficult without you

1022

00:50:10,150 --> 00:50:07,920

uh so if you are one of the folks that

1023

00:50:11,270 --> 00:50:10,160

instructed taught or interact with us in

1024

00:50:12,870 --> 00:50:11,280

this past two and a half years if you

1025

00:50:28,630 --> 00:50:12,880

could please stand up so we can

1026

00:50:32,230 --> 00:50:30,150

and jeremy you're a special kind of

1027

00:50:35,430 --> 00:50:32,240

instructor uh you're

1028

00:50:37,270 --> 00:50:35,440

in in a friendly way uh

1029

00:50:39,190 --> 00:50:37,280

you've been a mentor to all of us a role

1030

00:50:41,190 --> 00:50:39,200

model and a friend and i think we can

1031

00:50:42,950 --> 00:50:41,200

all honestly say i know for myself i

1032

00:50:44,069 --> 00:50:42,960

will never end a debrief ever in the

1033

00:50:48,069 --> 00:50:44,079

rest of my life without thinking to

1034

00:50:52,710 --> 00:50:51,030

uh and finally and most importantly uh

1035

00:50:54,390 --> 00:50:52,720

the the other kind of instructors that

1036

00:50:56,150 --> 00:50:54,400

we have are life instructors and so for

1037

00:50:57,430 --> 00:50:56,160

all the folks uh here in the family

1038

00:50:59,270 --> 00:50:57,440

section in the red seats and those

1039

00:51:00,549 --> 00:50:59,280

watching at home actually if the folks

1040

00:51:03,349 --> 00:51:00,559

in the red the red section wants to

1041

00:51:05,030 --> 00:51:03,359

stand up so we can we can talk about you

1042

00:51:19,990 --> 00:51:05,040

that's you in this

1043

00:51:24,069 --> 00:51:22,870

so we we all would not be here if it

1044

00:51:26,790 --> 00:51:24,079

wasn't for you we wouldn't have started

1045

00:51:28,069 --> 00:51:26,800

this program without you and uh it's

1046

00:51:29,430 --> 00:51:28,079

even more important that we wouldn't

1047

00:51:30,549 --> 00:51:29,440

have finished this program even more so

1048

00:51:31,430 --> 00:51:30,559

than with the technical instructors we

1049

00:51:34,309 --> 00:51:31,440

definitely wouldn't have finished

1050

00:51:37,030 --> 00:51:34,319

without you um you guys definitely have

1051
00:51:39,109 --> 00:51:37,040
the harder job than us and we know we

1052
00:51:41,270 --> 00:51:39,119
nasa the the world will not go to the

1053
00:51:43,829 --> 00:51:41,280
moon and beyond uh without your guys's

1054
00:51:45,670 --> 00:51:43,839
continued support um like i said you've

1055
00:51:47,349 --> 00:51:45,680
had the harder job than any of us on

1056
00:51:48,950 --> 00:51:47,359
this stage whether it was raising and

1057
00:51:51,030 --> 00:51:48,960
supporting us to be the people we are

1058
00:51:53,190 --> 00:51:51,040
today whether it's siblings who kept us

1059
00:51:54,870 --> 00:51:53,200
in line along the way or whether it's

1060
00:51:56,710 --> 00:51:54,880
families who've lived with us being our

1061
00:51:58,470 --> 00:51:56,720
better halves all this time or probably

1062
00:51:59,190 --> 00:51:58,480
even harder the families living without

1063
00:52:02,549 --> 00:51:59,200

us

1064

00:52:05,430 --> 00:52:02,559

decades whether it's flying living

1065

00:52:07,430 --> 00:52:05,440

underwater combat deployments uh

1066

00:52:10,470 --> 00:52:07,440

month-long expeditions to the antarctic

1067

00:52:11,990 --> 00:52:10,480

yosemite uh volcanoes or wherever we

1068

00:52:15,030 --> 00:52:12,000

hatched up some scheme that we thought

1069

00:52:17,510 --> 00:52:15,040

would be a great idea to go for a while

1070

00:52:19,750 --> 00:52:17,520

so while we had go on expeditions that

1071

00:52:21,430 --> 00:52:19,760

made us better our jobs you guys made us

1072

00:52:22,950 --> 00:52:21,440

better at our lives and being better

1073

00:52:33,610 --> 00:52:22,960

people so thank you very much for that

1074

00:52:43,349 --> 00:52:41,030

[Applause]

1075

00:52:44,390 --> 00:52:43,359

so we now have a very special message

1076

00:52:46,790 --> 00:52:44,400

from

1077

00:52:49,750 --> 00:52:46,800

some folks that were not able to be with

1078

00:52:53,190 --> 00:52:49,760

us here today so let's uh let's roll the

1079

00:52:58,150 --> 00:52:55,510

hello turtles and congratulations on

1080

00:52:59,510 --> 00:52:58,160

this momentous milestone for all of you

1081

00:53:00,950 --> 00:52:59,520

we're sorry we couldn't be there to

1082

00:53:02,950 --> 00:53:00,960

celebrate this achievement with you in

1083

00:53:04,630 --> 00:53:02,960

person today but we've been busy up here

1084

00:53:06,710 --> 00:53:04,640

on the international space station

1085

00:53:08,950 --> 00:53:06,720

getting it ready for you guys to arrive

1086

00:53:11,589 --> 00:53:08,960

and continue doing lots of science space

1087

00:53:13,190 --> 00:53:11,599

walks and upgrades you're going to love

1088

00:53:18,069 --> 00:53:13,200

the view looking down at our beautiful

1089

00:53:21,670 --> 00:53:19,670

we know that all of the training needed

1090

00:53:23,430 --> 00:53:21,680

to become an astronaut isn't easy so

1091

00:53:25,589 --> 00:53:23,440

take a moment to be proud of yourselves

1092

00:53:27,910 --> 00:53:25,599

and how far you've come we are certainly

1093

00:53:32,790 --> 00:53:27,920

proud of you we can tell you for sure

1094

00:53:36,309 --> 00:53:34,470

we're excited for you to officially join

1095

00:53:38,630 --> 00:53:36,319

us as we work together to accomplish

1096

00:53:40,549 --> 00:53:38,640

amazing things fly new spacecraft and

1097

00:53:42,470 --> 00:53:40,559

prepare to head back to the moon

1098

00:53:44,309 --> 00:53:42,480

congratulations again and enjoy this

1099

00:53:46,870 --> 00:53:44,319

special time with your families and this

1100

00:53:49,190 --> 00:53:46,880

unmatched team look beside you your

1101
00:53:52,069 --> 00:53:49,200
fellow classmates are also your future

1102
00:54:08,150 --> 00:53:52,079
crewmates the sky and the stars lie

1103
00:54:11,990 --> 00:54:10,470
we also have two very special guests

1104
00:54:14,549 --> 00:54:12,000
with us here today

1105
00:54:17,270 --> 00:54:14,559
two people that are critically important

1106
00:54:19,750 --> 00:54:17,280
to the success of nasa the success of

1107
00:54:21,190 --> 00:54:19,760
the johnson space center in texas we're

1108
00:54:23,750 --> 00:54:21,200
thrilled that they're here with us

1109
00:54:25,270 --> 00:54:23,760
senators cornyn and cruz and we're going

1110
00:54:27,190 --> 00:54:25,280
to give them an opportunity to come up

1111
00:54:28,870 --> 00:54:27,200
and say a few words we'll start with

1112
00:54:30,309 --> 00:54:28,880
senator cornyn i just want to say thank

1113
00:54:32,710 --> 00:54:30,319

you for your leadership on

1114

00:54:34,309 --> 00:54:32,720

appropriations and authorization i also

1115

00:54:36,950 --> 00:54:34,319

want to thank you

1116

00:54:39,990 --> 00:54:36,960

for the advancing human space flight act

1117

00:54:42,870 --> 00:54:40,000

which is bipartisan introduced last year

1118

00:54:44,630 --> 00:54:42,880

and it is focused on improving and and

1119

00:54:47,589 --> 00:54:44,640

benefiting the international space

1120

00:54:49,750 --> 00:54:47,599

station and of course uh human space

1121

00:54:52,150 --> 00:54:49,760

suits and of course human spacesuits are

1122

00:55:08,390 --> 00:54:52,160

managed where right here at the johnson

1123

00:55:12,710 --> 00:55:11,270

well good morning everyone um ambassador

1124

00:55:14,230 --> 00:55:12,720

breidenstein

1125

00:55:17,109 --> 00:55:14,240

thank you for that introduction thank

1126

00:55:18,470 --> 00:55:17,119

you for your hospitality uh it is more

1127

00:55:21,270 --> 00:55:18,480

than an honor

1128

00:55:23,109 --> 00:55:21,280

for me and senator cruz and i and our

1129

00:55:24,390 --> 00:55:23,119

colleagues to join you today in this

1130

00:55:29,589 --> 00:55:24,400

incredible

1131

00:55:31,349 --> 00:55:29,599

i know there's some

1132

00:55:33,270 --> 00:55:31,359

times in our lives that we will never

1133

00:55:34,950 --> 00:55:33,280

forget that sort of seem to be those

1134

00:55:36,549 --> 00:55:34,960

landmarks in our

1135

00:55:38,630 --> 00:55:36,559

in our

1136

00:55:40,710 --> 00:55:38,640

long life hopefully

1137

00:55:43,109 --> 00:55:40,720

that we will never forget one for me of

1138

00:55:44,470 --> 00:55:43,119

course as for many of you

1139

00:55:46,710 --> 00:55:44,480

was in

1140

00:55:49,190 --> 00:55:46,720

1969

1141

00:55:50,549 --> 00:55:49,200

when neil armstrong and buzz aldrin went

1142

00:55:53,030 --> 00:55:50,559

to the moon

1143

00:55:53,990 --> 00:55:53,040

and uttered the famous phrase one small

1144

00:55:57,990 --> 00:55:54,000

step

1145

00:56:01,190 --> 00:55:58,000

for man one giant leap for mankind

1146

00:56:02,710 --> 00:56:01,200

and inspired us all

1147

00:56:06,069 --> 00:56:02,720

well i know this isn't the first

1148

00:56:07,670 --> 00:56:06,079

graduation for uh these astronauts and

1149

00:56:10,630 --> 00:56:07,680

some of for some of you apparently it's

1150

00:56:12,710 --> 00:56:10,640

not your second or third graduation uh

1151
00:56:14,390 --> 00:56:12,720
you've got a lot more than that

1152
00:56:16,950 --> 00:56:14,400
but suffice it to say this is an

1153
00:56:18,710 --> 00:56:16,960
incredibly smart group of

1154
00:56:20,950 --> 00:56:18,720
individuals and

1155
00:56:23,109 --> 00:56:20,960
who spent the last two years gaining the

1156
00:56:25,670 --> 00:56:23,119
skills and knowledge to lead human space

1157
00:56:28,950 --> 00:56:25,680
exploration into the future

1158
00:56:32,150 --> 00:56:28,960
i think i can speak for all of us here

1159
00:56:35,030 --> 00:56:32,160
and uh and saying how proud we are of of

1160
00:56:36,630 --> 00:56:35,040
all of you and what you will accomplish

1161
00:56:39,430 --> 00:56:36,640
we heard earlier about the training

1162
00:56:40,390 --> 00:56:39,440
program that these astronauts have been

1163
00:56:43,910 --> 00:56:40,400

through

1164

00:56:45,910 --> 00:56:43,920

it reminds me of a great quote from the

1165

00:56:49,109 --> 00:56:45,920

movie the right stuff

1166

00:56:50,950 --> 00:56:49,119

when alan shepard responds to a nasa

1167

00:56:52,390 --> 00:56:50,960

recruiting pitch saying

1168

00:56:55,589 --> 00:56:52,400

sounds dangerous

1169

00:57:00,470 --> 00:56:57,910

well to me the the amazing thing about

1170

00:57:01,670 --> 00:57:00,480

our space program is is its capacity to

1171

00:57:04,390 --> 00:57:01,680

inspire

1172

00:57:06,549 --> 00:57:04,400

all of us young and old and in between

1173

00:57:09,270 --> 00:57:06,559

and i remember what president ronald

1174

00:57:10,870 --> 00:57:09,280

reagan said following the challenger

1175

00:57:12,630 --> 00:57:10,880

tragedy and the

1176

00:57:14,789 --> 00:57:12,640

amazing speech but

1177

00:57:16,470 --> 00:57:14,799

the uplifting part of that

1178

00:57:17,670 --> 00:57:16,480

was when he said we've grown used to

1179

00:57:19,109 --> 00:57:17,680

wonders

1180

00:57:22,069 --> 00:57:19,119

in this century

1181

00:57:24,549 --> 00:57:22,079

it's hard to dazzle us

1182

00:57:27,190 --> 00:57:24,559

but for 25 years the united states space

1183

00:57:30,630 --> 00:57:27,200

program has been doing just that

1184

00:57:31,750 --> 00:57:30,640

we've grown used to the idea of space

1185

00:57:34,630 --> 00:57:31,760

and for

1186

00:57:36,230 --> 00:57:34,640

and perhaps we forget that we've only

1187

00:57:41,190 --> 00:57:36,240

just begun

1188

00:57:44,309 --> 00:57:42,950

well i know these astronauts share that

1189

00:57:47,109 --> 00:57:44,319

same

1190

00:57:49,030 --> 00:57:47,119

conviction and enthusiasm

1191

00:57:50,870 --> 00:57:49,040

and i think the excitement we're all

1192

00:57:53,510 --> 00:57:50,880

feeling today is only matched by our

1193

00:57:55,510 --> 00:57:53,520

high expectations for all of them

1194

00:57:57,190 --> 00:57:55,520

and minister breidenstein everybody here

1195

00:57:58,069 --> 00:57:57,200

at the johnson space center and of

1196

00:57:59,510 --> 00:57:58,079

course

1197

00:58:02,069 --> 00:57:59,520

to the

1198

00:58:04,230 --> 00:58:02,079

president trump and vice president

1199

00:58:06,390 --> 00:58:04,240

pence none of them have been shy about

1200

00:58:10,069 --> 00:58:06,400

pointing to the stars and setting lofty

1201
00:58:12,069 --> 00:58:10,079
goals for america's space exploration

1202
00:58:13,670 --> 00:58:12,079
program and the artemis program is just

1203
00:58:15,349 --> 00:58:13,680
part of that

1204
00:58:17,670 --> 00:58:15,359
folks used to tell kids when i was

1205
00:58:20,549 --> 00:58:17,680
growing up reach for the moon

1206
00:58:22,390 --> 00:58:20,559
but that's not the objective anymore

1207
00:58:24,230 --> 00:58:22,400
now we've got to revise it to

1208
00:58:26,069 --> 00:58:24,240
reach for mars

1209
00:58:27,750 --> 00:58:26,079
because that's what our space program is

1210
00:58:31,109 --> 00:58:27,760
doing and there's a good chance that at

1211
00:58:32,789 --> 00:58:31,119
least one of you will take us there

1212
00:58:34,309 --> 00:58:32,799
just as your predecessors have done

1213
00:58:36,710 --> 00:58:34,319

before you each of you will help fill

1214

00:58:38,870 --> 00:58:36,720

the pages of history with human

1215

00:58:40,870 --> 00:58:38,880

achievements in space

1216

00:58:42,390 --> 00:58:40,880

for generations the united states has

1217

00:58:45,030 --> 00:58:42,400

been the world leader in space

1218

00:58:47,910 --> 00:58:45,040

exploration in the johnson space center

1219

00:58:50,309 --> 00:58:47,920

will always be the heart and the home

1220

00:58:52,549 --> 00:58:50,319

of human space flight after all the

1221

00:58:53,510 --> 00:58:52,559

first words spoken on the moon's surface

1222

00:58:55,990 --> 00:58:53,520

were

1223

00:58:57,750 --> 00:58:56,000

was houston

1224

00:58:59,589 --> 00:58:57,760

this is where you'll find thousands of

1225

00:59:01,750 --> 00:58:59,599

dedicated public servants and

1226

00:59:04,630 --> 00:59:01,760

contractors willing to do the work to

1227

00:59:07,109 --> 00:59:04,640

get our astronauts into safe into space

1228

00:59:08,789 --> 00:59:07,119

and most importantly to bring them home

1229

00:59:11,030 --> 00:59:08,799

safely

1230

00:59:12,870 --> 00:59:11,040

i'm in absolute awe

1231

00:59:15,270 --> 00:59:12,880

of the work being done by the folks here

1232

00:59:17,109 --> 00:59:15,280

at johnson space center every day and

1233

00:59:18,710 --> 00:59:17,119

the commitment to maintaining our place

1234

00:59:20,150 --> 00:59:18,720

in the forefront of human space

1235

00:59:22,870 --> 00:59:20,160

exploration

1236

00:59:25,589 --> 00:59:22,880

this community makes our nation proud

1237

00:59:28,069 --> 00:59:25,599

and inspires millions of young students

1238

00:59:30,789 --> 00:59:28,079

like those here today among us

1239

00:59:33,109 --> 00:59:30,799

to know that the impossible

1240

00:59:35,430 --> 00:59:33,119

can be possible

1241

00:59:37,109 --> 00:59:35,440

the 50th anniversary of the apollo 11

1242

00:59:39,270 --> 00:59:37,119

mission last summer was a reminder of

1243

00:59:42,390 --> 00:59:39,280

just how far our space missions have

1244

00:59:44,309 --> 00:59:42,400

come since that first small step

1245

00:59:47,270 --> 00:59:44,319

and buzz aldrin is still around telling

1246

00:59:48,630 --> 00:59:47,280

us all about it 50 years later

1247

00:59:51,349 --> 00:59:48,640

the fact that we've just heard from

1248

00:59:53,030 --> 00:59:51,359

colleagues of yours who are orbiting 220

1249

00:59:55,990 --> 00:59:53,040

miles above us in the international

1250

00:59:58,710 --> 00:59:56,000

space station is proof of that

1251
01:00:00,470 --> 00:59:58,720
i have no doubt that these newly minted

1252
01:00:02,309 --> 01:00:00,480
astronauts in front of us are going to

1253
01:00:04,630 --> 01:00:02,319
accomplish accomplish some incredible

1254
01:00:06,309 --> 01:00:04,640
things so that our children

1255
01:00:09,030 --> 01:00:06,319
our grandchildren and maybe even our

1256
01:00:11,750 --> 01:00:09,040
great grandkids will have a lot more to

1257
01:00:14,470 --> 01:00:11,760
celebrate in the next 50 years once

1258
01:00:25,780 --> 01:00:14,480
again congratulations astronauts and

1259
01:00:30,950 --> 01:00:29,109
[Applause]

1260
01:00:32,950 --> 01:00:30,960
we have another senator from the great

1261
01:00:34,630 --> 01:00:32,960
state of texas somebody who is a leader

1262
01:00:37,430 --> 01:00:34,640
in the senate on space issues and of

1263
01:00:39,750 --> 01:00:37,440

course i saw him firsthand work very

1264

01:00:42,470 --> 01:00:39,760

hard to create bipartisan legislation

1265

01:00:43,990 --> 01:00:42,480

the nasa transition authorization act to

1266

01:00:45,910 --> 01:00:44,000

make sure that we had

1267

01:00:48,630 --> 01:00:45,920

continuity of purpose as we go from one

1268

01:00:50,390 --> 01:00:48,640

administration to the next and of course

1269

01:00:51,750 --> 01:00:50,400

he's also the chairman of the space

1270

01:00:54,230 --> 01:00:51,760

subcommittee

1271

01:00:56,549 --> 01:00:54,240

in the senate i would also say

1272

01:00:59,510 --> 01:00:56,559

he has a very personal connection to

1273

01:01:00,789 --> 01:00:59,520

nasa and maybe even before nasa existed

1274

01:01:02,069 --> 01:01:00,799

his mother

1275

01:01:04,230 --> 01:01:02,079

was in fact

1276

01:01:07,270 --> 01:01:04,240

working at the time for the smithsonian

1277

01:01:09,589 --> 01:01:07,280

institute as a human calculator

1278

01:01:11,430 --> 01:01:09,599

when sputnik got launched and she was

1279

01:01:13,190 --> 01:01:11,440

responsible for making sure the united

1280

01:01:15,109 --> 01:01:13,200

states of america knew

1281

01:01:16,470 --> 01:01:15,119

what this little thing was doing out in

1282

01:01:17,510 --> 01:01:16,480

space

1283

01:01:19,750 --> 01:01:17,520

so

1284

01:01:24,390 --> 01:01:19,760

even better than that his mom

1285

01:01:27,829 --> 01:01:24,400

is an is a mighty rice owl

1286

01:01:29,630 --> 01:01:27,839

i'm a little biased hoot

1287

01:01:41,510 --> 01:01:29,640

senator ted cruz

1288

01:01:46,470 --> 01:01:41,520

[Applause]

1289

01:01:51,510 --> 01:01:49,109

this is exciting

1290

01:01:54,069 --> 01:01:51,520

this is really exciting

1291

01:01:55,670 --> 01:01:54,079

look i was here two years ago

1292

01:01:57,829 --> 01:01:55,680

when the turtle started when y'all were

1293

01:01:59,670 --> 01:01:57,839

first announced when you were beginning

1294

01:02:01,029 --> 01:01:59,680

the training i remember visiting with

1295

01:02:02,230 --> 01:02:01,039

each of you when you were getting

1296

01:02:05,430 --> 01:02:02,240

started

1297

01:02:07,430 --> 01:02:05,440

to be the first artemis class

1298

01:02:08,950 --> 01:02:07,440

and i gotta say i was blown away then

1299

01:02:10,870 --> 01:02:08,960

and just sitting listening to the

1300

01:02:13,589 --> 01:02:10,880

presentation you know there's a

1301

01:02:24,950 --> 01:02:13,599

technical term for these men and women

1302

01:02:29,910 --> 01:02:27,670

i i suspect i was not the only one as

1303

01:02:33,750 --> 01:02:29,920

you were listening to their backgrounds

1304

01:02:35,910 --> 01:02:33,760

who felt horribly horribly inadequate

1305

01:02:37,190 --> 01:02:35,920

i did turn to john cornyn and say what

1306

01:02:38,710 --> 01:02:37,200

the heck have we been doing with our

1307

01:02:39,829 --> 01:02:38,720

lives

1308

01:02:41,190 --> 01:02:39,839

i mean

1309

01:02:43,270 --> 01:02:41,200

johnny

1310

01:02:45,190 --> 01:02:43,280

you're a navy seal

1311

01:02:46,789 --> 01:02:45,200

with a degree from harvard medical

1312

01:02:50,870 --> 01:02:46,799

school

1313

01:03:04,789 --> 01:02:52,950

i mean he can kill you and then bring

1314

01:03:04,799 --> 01:03:08,710

and do it all in space

1315

01:03:13,029 --> 01:03:10,069

you know there are a lot of young people

1316

01:03:14,789 --> 01:03:13,039

who are here who are watching at home

1317

01:03:17,029 --> 01:03:14,799

you think about when young people

1318

01:03:19,029 --> 01:03:17,039

envision what do i want to do in life

1319

01:03:20,950 --> 01:03:19,039

get kids sitting around and some may say

1320

01:03:23,190 --> 01:03:20,960

i want to be a fireman

1321

01:03:24,950 --> 01:03:23,200

others might say i want to be a doctor

1322

01:03:29,109 --> 01:03:24,960

i want to be a scientist i want to be a

1323

01:03:32,390 --> 01:03:29,119

ballerina i want to be a superhero

1324

01:03:35,109 --> 01:03:32,400

and the answer that trumps all of those

1325

01:03:37,910 --> 01:03:35,119

is i want to be an astronaut

1326

01:03:39,109 --> 01:03:37,920

because these guys with these training

1327

01:03:39,990 --> 01:03:39,119

they're going to have to do every bit of

1328

01:03:42,549 --> 01:03:40,000

that

1329

01:03:47,029 --> 01:03:42,559

every one of those whether it is dancing

1330

01:03:50,950 --> 01:03:49,190

dealing with a disaster

1331

01:03:53,510 --> 01:03:50,960

which unfortunately in the harsh

1332

01:03:55,510 --> 01:03:53,520

realities of space disaster is one of

1333

01:03:58,069 --> 01:03:55,520

the things you count on

1334

01:04:01,190 --> 01:03:58,079

potentially saving the lives of your

1335

01:04:03,109 --> 01:04:01,200

crew members think how many of them

1336

01:04:05,029 --> 01:04:03,119

when talking about

1337

01:04:06,470 --> 01:04:05,039

their colleagues said i would trust my

1338

01:04:08,710 --> 01:04:06,480

life to them

1339

01:04:10,309 --> 01:04:08,720

in most walks of life

1340

01:04:12,470 --> 01:04:10,319

you don't have to worry about that too

1341

01:04:13,910 --> 01:04:12,480

much in most jobs

1342

01:04:15,349 --> 01:04:13,920

look frankly

1343

01:04:16,870 --> 01:04:15,359

the senate the only thing i have to

1344

01:04:19,750 --> 01:04:16,880

worry about is someone giving me a paper

1345

01:04:24,230 --> 01:04:22,309

but for these guys trusting your life to

1346

01:04:26,549 --> 01:04:24,240

the men and women next to you is exactly

1347

01:04:28,390 --> 01:04:26,559

what they're doing

1348

01:04:30,150 --> 01:04:28,400

and i have to say these men and women

1349

01:04:33,430 --> 01:04:30,160

embody

1350

01:04:35,109 --> 01:04:33,440

the hopes and future

1351

01:04:38,470 --> 01:04:35,119

think about little boys little girls

1352

01:04:40,390 --> 01:04:38,480

going back from the dawn of time

1353

01:04:43,029 --> 01:04:40,400

before we had airplanes before we had

1354

01:04:47,910 --> 01:04:43,039

automobiles before we discovered the

1355

01:04:51,750 --> 01:04:49,589

little boys little girls stared up at

1356

01:04:53,430 --> 01:04:51,760

the sky

1357

01:04:55,430 --> 01:04:53,440

looked at the stars looked at the moon

1358

01:04:58,230 --> 01:04:55,440

said what's out there

1359

01:05:00,710 --> 01:04:58,240

who's out there what is in the great

1360

01:05:01,990 --> 01:05:00,720

beyond

1361

01:05:03,910 --> 01:05:02,000

that's what these men and women are

1362

01:05:05,750 --> 01:05:03,920

charged with

1363

01:05:11,270 --> 01:05:05,760

it's almost like you could reach out and

1364

01:05:20,309 --> 01:05:13,109

by the way your toys are a lot better

1365

01:05:23,670 --> 01:05:22,309

but those hopes and dreams you know

1366

01:05:25,750 --> 01:05:23,680

there are young people watching this

1367

01:05:28,069 --> 01:05:25,760

today that you too

1368

01:05:29,190 --> 01:05:28,079

could be an astronaut

1369

01:05:31,190 --> 01:05:29,200

you too

1370

01:05:33,589 --> 01:05:31,200

can explore the great frontier let me

1371

01:05:34,829 --> 01:05:33,599

just say as a final thing

1372

01:05:37,670 --> 01:05:34,839

you know i do

1373

01:05:39,670 --> 01:05:37,680

enjoy the power of space to bring people

1374

01:05:41,109 --> 01:05:39,680

together

1375

01:05:43,589 --> 01:05:41,119

to

1376

01:05:45,670 --> 01:05:43,599

cause my dear friend jim bridenstine a

1377

01:05:50,309 --> 01:05:45,680

die-hard okie to stand up here and

1378

01:05:55,670 --> 01:05:51,990

there's something deeply beautiful about

1379

01:06:00,309 --> 01:05:58,390

to bring together look this is a crazy

1380

01:06:02,630 --> 01:06:00,319

political time lots of partisan

1381

01:06:04,150 --> 01:06:02,640

divisions and yet for the six years i've

1382

01:06:06,710 --> 01:06:04,160

chaired the space subcommittee in the

1383

01:06:08,630 --> 01:06:06,720

senate we've seen bipartisan cooperation

1384

01:06:10,470 --> 01:06:08,640

when it comes to space we've seen

1385

01:06:20,390 --> 01:06:10,480

republicans and democrats working

1386

01:06:26,870 --> 01:06:23,589

and i want to say where we are right now

1387

01:06:29,670 --> 01:06:26,880

my hometown of houston

1388

01:06:34,950 --> 01:06:29,680

all of texas but especially houston has

1389

01:06:37,990 --> 01:06:34,960

a special and a deep connection to space

1390

01:06:41,589 --> 01:06:38,000

it was just a few miles away

1391

01:06:43,589 --> 01:06:41,599

at rice university where john f kennedy

1392

01:06:45,349 --> 01:06:43,599

stood and promised

1393

01:06:47,109 --> 01:06:45,359

within a decade

1394

01:06:49,349 --> 01:06:47,119

we will send a man to the moon and bring

1395

01:06:53,270 --> 01:06:49,359

him back safely

1396

01:06:54,870 --> 01:06:53,280

by the way kennedy in that same speech

1397

01:06:57,990 --> 01:06:54,880

he said

1398

01:06:59,670 --> 01:06:58,000

why do we do so we do so for the same

1399

01:07:03,029 --> 01:06:59,680

reason that rice

1400

01:07:08,630 --> 01:07:05,750

not because it is easy but because it is

1401
01:07:11,990 --> 01:07:10,470
you look at the city of houston our

1402
01:07:14,390 --> 01:07:12,000
sports teams

1403
01:07:17,270 --> 01:07:14,400
celebrate space we have the rockets we

1404
01:07:19,589 --> 01:07:17,280
have the astros

1405
01:07:22,150 --> 01:07:19,599
as john mentioned one of the very first

1406
01:07:24,390 --> 01:07:22,160
words said on the surface of the moon

1407
01:07:26,710 --> 01:07:24,400
was houston

1408
01:07:28,870 --> 01:07:26,720
the eagle has landed

1409
01:07:30,309 --> 01:07:28,880
and what i'm so excited going forward

1410
01:07:33,029 --> 01:07:30,319
with artemis

1411
01:07:34,630 --> 01:07:33,039
is that when the next astronaut lands on

1412
01:07:36,549 --> 01:07:34,640
the moon maybe one of these men and

1413
01:07:38,309 --> 01:07:36,559

women and by the way as the father of

1414

01:07:41,029 --> 01:07:38,319

two daughters i could not be more

1415

01:08:05,430 --> 01:07:41,039

excited that we will land a woman on the

1416

01:08:10,470 --> 01:08:08,069

but when that that next astronaut lands

1417

01:08:13,430 --> 01:08:10,480

on the moon once again one of the very

1418

01:08:15,829 --> 01:08:13,440

first words spoken will be houston

1419

01:08:18,550 --> 01:08:15,839

and when that next astronaut lands on

1420

01:08:20,630 --> 01:08:18,560

the surface of the red planet mars once

1421

01:08:23,030 --> 01:08:20,640

again that for one of those first words

1422

01:08:25,349 --> 01:08:23,040

spoken will be houston and the city of

1423

01:08:27,749 --> 01:08:25,359

houston the state of texas the entire

1424

01:08:30,149 --> 01:08:27,759

country and the entire world will be at

1425

01:08:44,599 --> 01:08:30,159

your back congratulations

1426

01:08:51,590 --> 01:08:49,349

[Applause]

1427

01:08:54,870 --> 01:08:51,600

okay

1428

01:08:56,550 --> 01:08:54,880

why does rice play texas

1429

01:08:58,070 --> 01:08:56,560

i'm going to tell you why

1430

01:08:59,749 --> 01:08:58,080

because we win

1431

01:09:03,349 --> 01:08:59,759

that's why

1432

01:09:07,189 --> 01:09:03,359

i was on the sidelines in 1994

1433

01:09:08,390 --> 01:09:07,199

and it was 19 to 17 rights over texas

1434

01:09:10,070 --> 01:09:08,400

might have been a little bit after that

1435

01:09:13,829 --> 01:09:10,080

speech you just mentioned but we got it

1436

01:09:27,510 --> 01:09:16,550

okay so we are joined here today with

1437

01:09:31,030 --> 01:09:29,110

and some of them have come with

1438

01:09:32,229 --> 01:09:31,040

questions for our astronauts and then

1439

01:09:34,309 --> 01:09:32,239

we're going to actually go to social

1440

01:09:37,430 --> 01:09:34,319

media and ask a few questions from

1441

01:09:38,789 --> 01:09:37,440

social media so today we have and if you

1442

01:09:40,229 --> 01:09:38,799

would when i call your name if you would

1443

01:09:42,630 --> 01:09:40,239

stand up and then i'll go ahead and get

1444

01:09:51,749 --> 01:09:42,640

to your question we have sienna a fourth

1445

01:09:55,430 --> 01:09:53,030

we have

1446

01:10:01,669 --> 01:09:55,440

derek a fourth grader from wesley

1447

01:10:11,510 --> 01:10:04,470

and we have julian an eighth grader from

1448

01:10:17,270 --> 01:10:14,229

okay so the question from sienna fourth

1449

01:10:20,470 --> 01:10:17,280

grader from davila elementary school

1450

01:10:23,830 --> 01:10:20,480

number one she says congrats to nasa on

1451

01:10:26,070 --> 01:10:23,840

the first all-female spacewalk

1452

01:10:29,030 --> 01:10:26,080

how do the new women astronauts here

1453

01:10:30,709 --> 01:10:29,040

today feel about that momentous occasion

1454

01:10:36,950 --> 01:10:30,719

and what are you most looking forward to

1455

01:10:40,149 --> 01:10:38,229

all right thank you sienna for the

1456

01:10:41,110 --> 01:10:40,159

congratulations as well

1457

01:10:42,950 --> 01:10:41,120

um

1458

01:10:45,189 --> 01:10:42,960

so i think jessica and christina's space

1459

01:10:46,870 --> 01:10:45,199

walk a couple months ago was was pretty

1460

01:10:49,430 --> 01:10:46,880

meaningful to

1461

01:10:51,350 --> 01:10:49,440

everyone on this stage i mean

1462

01:10:53,510 --> 01:10:51,360

at the very least there was two

1463

01:10:54,870 --> 01:10:53,520

outstanding astronauts doing their job

1464

01:10:57,189 --> 01:10:54,880

incredibly well which is always

1465

01:10:59,030 --> 01:10:57,199

wonderful to see but i know that we all

1466

01:11:00,070 --> 01:10:59,040

also recognize the significance of that

1467

01:11:03,430 --> 01:11:00,080

moment

1468

01:11:04,630 --> 01:11:03,440

both in the context of our space program

1469

01:11:07,350 --> 01:11:04,640

but also

1470

01:11:08,550 --> 01:11:07,360

i think as a sign of the incredible

1471

01:11:10,229 --> 01:11:08,560

progress

1472

01:11:12,229 --> 01:11:10,239

that you can make when you include

1473

01:11:13,590 --> 01:11:12,239

everyone in your mission and you back at

1474

01:11:15,350 --> 01:11:13,600

100

1475

01:11:16,790 --> 01:11:15,360

so i think that was that was powerful

1476

01:11:18,630 --> 01:11:16,800

for everyone who was sitting here but

1477

01:11:19,830 --> 01:11:18,640

also powerful for everyone watching i

1478

01:11:21,669 --> 01:11:19,840

don't know if sienna if you watched that

1479

01:11:23,030 --> 01:11:21,679

space walk all the boys and all the

1480

01:11:24,830 --> 01:11:23,040

girls at home who watched i think that

1481

01:11:28,229 --> 01:11:24,840

that was

1482

01:11:29,750 --> 01:11:28,239

meaningful so looking forward at our own

1483

01:11:32,310 --> 01:11:29,760

space flight i think we're going to take

1484

01:11:34,149 --> 01:11:32,320

that motivation and that inspiration and

1485

01:11:36,470 --> 01:11:34,159

i can say the thing i'm most excited for

1486

01:11:38,790 --> 01:11:36,480

is to be able to be in a crew with some

1487

01:11:40,229 --> 01:11:38,800

of my hopefully some of these amazing

1488

01:11:42,229 --> 01:11:40,239

people with me on this stage my

1489

01:11:44,470 --> 01:11:42,239

incredible classmates incredible people

1490

01:11:46,470 --> 01:11:44,480

who are in our office already

1491

01:11:48,310 --> 01:11:46,480

and we just look forward to making a

1492

01:11:50,390 --> 01:11:48,320

contribution like jessica and christina

1493

01:11:51,970 --> 01:11:50,400

did and the rest of that that wonderful

1494

01:12:01,030 --> 01:11:51,980

expedition

1495

01:12:03,270 --> 01:12:01,040

[Applause]

1496

01:12:05,830 --> 01:12:03,280

derek a fourth grader from wesley

1497

01:12:07,669 --> 01:12:05,840

elementary school asks how long will

1498

01:12:10,709 --> 01:12:07,679

astronauts be on the surface of the moon

1499

01:12:11,590 --> 01:12:10,719

during the artemis missions

1500

01:12:15,189 --> 01:12:11,600

derek

1501

01:12:16,390 --> 01:12:15,199

i'm matt and i really like that question

1502

01:12:18,310 --> 01:12:16,400

because

1503

01:12:19,430 --> 01:12:18,320

i think you'll find the answer really

1504

01:12:21,350 --> 01:12:19,440

cool

1505

01:12:22,709 --> 01:12:21,360

artemis is going

1506

01:12:24,149 --> 01:12:22,719

to stay

1507

01:12:25,669 --> 01:12:24,159

the administrator talked a little bit

1508

01:12:27,910 --> 01:12:25,679

about the infrastructure we're building

1509

01:12:30,070 --> 01:12:27,920

to make that happen but how can you not

1510

01:12:32,470 --> 01:12:30,080

see this moon up here all day

1511

01:12:34,070 --> 01:12:32,480

and want to walk all over it

1512

01:12:35,750 --> 01:12:34,080

so we're building a space station that's

1513

01:12:37,350 --> 01:12:35,760

going to orbit the moon

1514

01:12:39,030 --> 01:12:37,360

that will allow us to go to the surface

1515

01:12:40,950 --> 01:12:39,040

and back to that gateway

1516

01:12:43,669 --> 01:12:40,960

that's an outpost that also provides the

1517

01:12:45,910 --> 01:12:43,679

stepping stone to get us to mars but

1518

01:12:48,390 --> 01:12:45,920

we're going to stay we're building the

1519

01:12:50,229 --> 01:12:48,400

sustainable infrastructure to make that

1520

01:12:52,950 --> 01:12:50,239

happen derek and that should be really

1521

01:12:54,950 --> 01:12:52,960

cool but it's not going to be easy

1522

01:12:56,149 --> 01:12:54,960

it's going to take two things it's going

1523

01:12:57,830 --> 01:12:56,159

to take a lot of hard work and the

1524

01:13:00,229 --> 01:12:57,840

things that your teachers talk about all

1525

01:13:01,510 --> 01:13:00,239

the time science technology engineering

1526

01:13:04,229 --> 01:13:01,520

mathematics

1527

01:13:06,950 --> 01:13:04,239

americans and international partners in

1528

01:13:09,669 --> 01:13:06,960

those fields working hard together to

1529

01:13:11,510 --> 01:13:09,679

reach those goals and we'll tell the

1530

01:13:14,070 --> 01:13:11,520

same story that nasa has told for

1531

01:13:16,709 --> 01:13:14,080

decades when we work hard

1532

01:13:19,430 --> 01:13:16,719

we achieve new heights and new goals

1533

01:13:22,310 --> 01:13:19,440

we develop new solutions

1534

01:13:23,270 --> 01:13:22,320

new new new technologies for everyone on

1535

01:13:24,950 --> 01:13:23,280

earth

1536

01:13:26,709 --> 01:13:24,960

and the second part is we need the

1537

01:13:28,310 --> 01:13:26,719

resources and we make a really cool team

1538

01:13:29,750 --> 01:13:28,320

when we put these two things together

1539

01:13:31,750 --> 01:13:29,760

americans international partners working

1540

01:13:33,990 --> 01:13:31,760

hard together with resources from our

1541

01:13:44,310 --> 01:13:34,000

elected officials we come together and

1542

01:13:47,990 --> 01:13:45,669

i'm getting goosebumps thinking about

1543

01:13:50,390 --> 01:13:48,000

walking around on this thing

1544

01:13:51,830 --> 01:13:50,400

but derek this is exciting for you this

1545

01:13:53,510 --> 01:13:51,840

is exciting for you because if i stood

1546

01:13:55,830 --> 01:13:53,520

up here right now and told you we were

1547

01:13:59,110 --> 01:13:55,840

only gonna go for a couple days you're

1548

01:14:00,630 --> 01:13:59,120

in fourth grade and you'd miss it

1549

01:14:02,790 --> 01:14:00,640

but what i'm telling you is we're going

1550

01:14:04,550 --> 01:14:02,800

to stay and what that means is after you

1551

01:14:16,390 --> 01:14:04,560

work hard in school you're going to join

1552

01:14:19,910 --> 01:14:18,229

matthew you just became not just one of

1553

01:14:23,900 --> 01:14:19,920

our newest astronauts but you're also

1554

01:14:27,189 --> 01:14:25,030

[Applause]

1555

01:14:29,510 --> 01:14:27,199

julian eighth grade

1556

01:14:31,030 --> 01:14:29,520

dd middle school wants to know

1557

01:14:32,390 --> 01:14:31,040

was there ever a time you doubted

1558

01:14:33,830 --> 01:14:32,400

yourselves

1559

01:14:36,149 --> 01:14:33,840

take that one is there every time you

1560

01:14:38,070 --> 01:14:36,159

doubted yourselves and if you say no

1561

01:14:40,830 --> 01:14:38,080

well matthew probably would say no

1562

01:14:47,590 --> 01:14:40,840

nobody else would say no

1563

01:14:52,310 --> 01:14:49,910

hi julian i'm johnny and i'd love to

1564

01:14:54,229 --> 01:14:52,320

answer that question it's a great one

1565

01:14:55,590 --> 01:14:54,239

everyone standing before you today on

1566

01:14:57,750 --> 01:14:55,600

this stage

1567

01:15:01,990 --> 01:14:57,760

has had self-doubt

1568

01:15:03,669 --> 01:15:02,000

it is very human to doubt yourself

1569

01:15:05,590 --> 01:15:03,679

the greatest

1570

01:15:08,310 --> 01:15:05,600

self-doubt i had was when i showed up to

1571

01:15:10,709 --> 01:15:08,320

seal training and i didn't know if i had

1572

01:15:13,750 --> 01:15:10,719

what it took to become a navy seal

1573

01:15:15,750 --> 01:15:13,760

but because of my teammates

1574

01:15:18,630 --> 01:15:15,760

we made it through

1575

01:15:20,229 --> 01:15:18,640

and that opened up my eyes

1576

01:15:22,149 --> 01:15:20,239

that

1577

01:15:24,470 --> 01:15:22,159

you julian

1578

01:15:25,830 --> 01:15:24,480

everyone in this auditorium everyone

1579

01:15:27,030 --> 01:15:25,840

watching

1580

01:15:28,630 --> 01:15:27,040

is capable

1581

01:15:32,790 --> 01:15:28,640

of so much more

1582

01:15:36,630 --> 01:15:35,110

so when we showed up here we all had our

1583

01:15:38,630 --> 01:15:36,640

doubts

1584

01:15:41,750 --> 01:15:38,640

but we knew we had each other

1585

01:15:43,270 --> 01:15:41,760

the support of our friends our families

1586

01:15:44,550 --> 01:15:43,280

our teachers

1587

01:15:55,990 --> 01:15:44,560

and that's why we're standing before you

1588

01:16:00,310 --> 01:15:58,470

would you be willing to share um i know

1589

01:16:01,910 --> 01:16:00,320

you guys are called the turtles and gals

1590

01:16:03,910 --> 01:16:01,920

are called the turtles where did that

1591

01:16:08,310 --> 01:16:03,920

name come from and what does that

1592

01:16:12,630 --> 01:16:10,550

so when we were announced by vice

1593

01:16:15,030 --> 01:16:12,640

president pence a couple years ago

1594

01:16:16,870 --> 01:16:15,040

he made a metaphor that if you see a

1595

01:16:25,830 --> 01:16:16,880

turtle on a fence post

1596

01:16:31,110 --> 01:16:28,550

and that's what we are here today

1597

01:16:32,950 --> 01:16:31,120

every person on stage here

1598

01:16:35,510 --> 01:16:32,960

is a symbol

1599

01:16:37,750 --> 01:16:35,520

of all the love and support that we've

1600

01:16:39,270 --> 01:16:37,760

had from our friends

1601
01:16:40,950 --> 01:16:39,280
our mentors

1602
01:16:43,110 --> 01:16:40,960
our teachers

1603
01:16:44,790 --> 01:16:43,120
we wouldn't be here without all that

1604
01:16:54,470 --> 01:16:44,800
love and support

1605
01:16:58,950 --> 01:16:55,750
okay now we're going to go to some

1606
01:17:02,070 --> 01:16:58,960
social media questions sam on twitter

1607
01:17:03,510 --> 01:17:02,080
asks how have your families been with

1608
01:17:05,830 --> 01:17:03,520
your plans

1609
01:17:07,990 --> 01:17:05,840
are they supportive

1610
01:17:09,270 --> 01:17:08,000
they're all here so you're gonna

1611
01:17:11,910 --> 01:17:09,280
um

1612
01:17:14,830 --> 01:17:11,920
did they think you were crazy uh who

1613
01:17:21,510 --> 01:17:18,070

most okay well that's a great great um

1614

01:17:23,350 --> 01:17:21,520

multi-part question um

1615

01:17:24,709 --> 01:17:23,360

and you know sam is actually my

1616

01:17:31,270 --> 01:17:24,719

husband's name so i'm starting to

1617

01:17:34,470 --> 01:17:33,510

so you know johnny actually just talked

1618

01:17:36,550 --> 01:17:34,480

about

1619

01:17:38,310 --> 01:17:36,560

our name the turtles and while behind

1620

01:17:41,510 --> 01:17:38,320

the scenes it incites a lot of jokes

1621

01:17:44,070 --> 01:17:41,520

about us being slow it it is really

1622

01:17:46,229 --> 01:17:44,080

about all those people who supported us

1623

01:17:48,630 --> 01:17:46,239

for me personally

1624

01:17:52,310 --> 01:17:48,640

um my parents might you know my dad's

1625

01:17:54,070 --> 01:17:52,320

here today my mom's watching on tv

1626

01:17:56,470 --> 01:17:54,080

they've always believed in me and

1627

01:17:58,790 --> 01:17:56,480

they've always showed me

1628

01:18:01,030 --> 01:17:58,800

uh what you can accomplish through hard

1629

01:18:03,350 --> 01:18:01,040

work and

1630

01:18:04,790 --> 01:18:03,360

for me having my parents believe i could

1631

01:18:06,390 --> 01:18:04,800

do something

1632

01:18:07,910 --> 01:18:06,400

that convinced me i was like well if

1633

01:18:09,910 --> 01:18:07,920

they think i can do it i can do it i

1634

01:18:10,709 --> 01:18:09,920

think it was so important now were there

1635

01:18:12,470 --> 01:18:10,719

ever

1636

01:18:15,189 --> 01:18:12,480

people that doubted me absolutely there

1637

01:18:17,750 --> 01:18:15,199

were um you know when when i decided to

1638

01:18:19,590 --> 01:18:17,760

join the marine corps

1639

01:18:21,350 --> 01:18:19,600
after graduating from mit

1640

01:18:23,910 --> 01:18:21,360
[Music]

1641

01:18:26,550 --> 01:18:23,920
now in a post september 11 world did my

1642

01:18:28,630 --> 01:18:26,560
parents think i was crazy yes i'm pretty

1643

01:18:31,510 --> 01:18:28,640
sure they did

1644

01:18:33,270 --> 01:18:31,520
but but once i joined they they gave me

1645

01:18:35,030 --> 01:18:33,280
absolute support

1646

01:18:38,070 --> 01:18:35,040
support from my brother came in a

1647

01:18:40,229 --> 01:18:38,080
slightly different form of

1648

01:18:42,149 --> 01:18:40,239
you know giving me a little grief

1649

01:18:44,790 --> 01:18:42,159
anytime he didn't think i was living up

1650

01:18:47,189 --> 01:18:44,800
to my potential or doing my hardest

1651

01:18:48,950 --> 01:18:47,199

um and then you know i mentioned my

1652

01:18:50,709 --> 01:18:48,960

husband sam i haven't even been married

1653

01:18:51,510 --> 01:18:50,719

three months but

1654

01:18:59,510 --> 01:18:51,520

i

1655

01:19:01,830 --> 01:18:59,520

home

1656

01:19:03,350 --> 01:19:01,840

and and it's it's because of that that

1657

01:19:07,189 --> 01:19:03,360

i'm here today and i think everyone

1658

01:19:09,430 --> 01:19:07,199

feels similarly but but that being said

1659

01:19:10,870 --> 01:19:09,440

there there will always be people out

1660

01:19:12,149 --> 01:19:10,880

there that doubt you you know when i was

1661

01:19:13,270 --> 01:19:12,159

a sixth grader and said i was going to

1662

01:19:14,470 --> 01:19:13,280

become an astronaut do you think

1663

01:19:18,470 --> 01:19:14,480

everyone was like yep she's going to

1664

01:19:22,630 --> 01:19:20,790

probably not

1665

01:19:24,950 --> 01:19:22,640

so at the end of the day you have to

1666

01:19:27,350 --> 01:19:24,960

believe that you're doing what what you

1667

01:19:28,630 --> 01:19:27,360

love doing and that will be enough to

1668

01:19:31,640 --> 01:19:28,640

get you through you're going to fail at

1669

01:19:39,910 --> 01:19:31,650

some point but just keep going

1670

01:19:44,310 --> 01:19:42,229

so bella on twitter asks what was

1671

01:19:51,350 --> 01:19:44,320

something about training that totally

1672

01:19:55,110 --> 01:19:52,950

so bella that's a great question i'm uh

1673

01:19:57,189 --> 01:19:55,120

woody hoberg i think one thing that i

1674

01:19:59,350 --> 01:19:57,199

didn't fully appreciate until i arrived

1675

01:20:01,189 --> 01:19:59,360

here at johnson was just all of the cool

1676
01:20:02,310 --> 01:20:01,199
things that we're doing in space every

1677
01:20:05,590 --> 01:20:02,320
day

1678
01:20:07,590 --> 01:20:05,600
we've been operating and living on the

1679
01:20:09,350 --> 01:20:07,600
international space station for almost

1680
01:20:11,669 --> 01:20:09,360
20 years now

1681
01:20:13,030 --> 01:20:11,679
and for most of the students

1682
01:20:15,750 --> 01:20:13,040
some are not

1683
01:20:18,790 --> 01:20:15,760
excuse me for all um probably all of the

1684
01:20:20,950 --> 01:20:18,800
students in the audience that means

1685
01:20:21,830 --> 01:20:20,960
that there has not been a day in your

1686
01:20:23,430 --> 01:20:21,840
life

1687
01:20:25,750 --> 01:20:23,440
when we have not had

1688
01:20:35,510 --> 01:20:25,760

men and women living and working in

1689

01:20:39,990 --> 01:20:37,590

i think that's just an amazing truly

1690

01:20:42,149 --> 01:20:40,000

amazing accomplishment and when i'm here

1691

01:20:45,750 --> 01:20:42,159

at johnson i still love just walking

1692

01:20:48,229 --> 01:20:45,760

into mission control any hour of any day

1693

01:20:50,950 --> 01:20:48,239

and watching our team here on the ground

1694

01:20:53,669 --> 01:20:50,960

controlling the vehicle operating it and

1695

01:21:03,669 --> 01:20:53,679

enabling the amazing science mission

1696

01:21:08,310 --> 01:21:06,550

ellie's question on twitter what thing

1697

01:21:10,470 --> 01:21:08,320

did you do during astronaut school that

1698

01:21:14,629 --> 01:21:10,480

a six-year-old like me

1699

01:21:19,350 --> 01:21:16,790

um bob hines and ellie that's a great

1700

01:21:21,910 --> 01:21:19,360

question um i would say the entire thing

1701

01:21:23,430 --> 01:21:21,920

i think other than jaws maybe

1702

01:21:25,350 --> 01:21:23,440

every single one of us would look at the

1703

01:21:26,870 --> 01:21:25,360

fact that we're on this stage back when

1704

01:21:28,470 --> 01:21:26,880

we were six years old as potentially

1705

01:21:31,189 --> 01:21:28,480

being impossible

1706

01:21:34,629 --> 01:21:31,199

back when i was six

1707

01:21:36,870 --> 01:21:34,639

that was a long time ago but i i just

1708

01:21:39,110 --> 01:21:36,880

turned six when the first space shuttle

1709

01:21:41,350 --> 01:21:39,120

launch happened and i remember watching

1710

01:21:44,149 --> 01:21:41,360

that and that being my first thing that

1711

01:21:45,990 --> 01:21:44,159

really got me interested in space and uh

1712

01:21:49,030 --> 01:21:46,000

and it just seemed

1713

01:21:50,470 --> 01:21:49,040

so big and i've told this before that if

1714

01:21:51,830 --> 01:21:50,480

anyone ever told me what i wanted or

1715

01:21:53,830 --> 01:21:51,840

asked me what i wanted to be when i was

1716

01:21:55,590 --> 01:21:53,840

young it was always a pilot because

1717

01:21:56,550 --> 01:21:55,600

being an astronaut was not even on the

1718

01:21:59,510 --> 01:21:56,560

table

1719

01:22:00,790 --> 01:21:59,520

for me for exactly that reason

1720

01:22:02,070 --> 01:22:00,800

however

1721

01:22:03,430 --> 01:22:02,080

what do you do when you encounter

1722

01:22:04,950 --> 01:22:03,440

impossible things

1723

01:22:06,310 --> 01:22:04,960

right and i think that's an important

1724

01:22:07,110 --> 01:22:06,320

question i tell it to my kids and

1725

01:22:08,390 --> 01:22:07,120

they're probably going to roll their

1726

01:22:10,149 --> 01:22:08,400

eyes over here as soon as i start

1727

01:22:11,430 --> 01:22:10,159

talking

1728

01:22:13,669 --> 01:22:11,440

but when you encounter something that

1729

01:22:15,669 --> 01:22:13,679

you think is impossible you break it

1730

01:22:17,990 --> 01:22:15,679

down into small little things and you

1731

01:22:20,070 --> 01:22:18,000

start taking and chipping away at those

1732

01:22:21,990 --> 01:22:20,080

things and suddenly it doesn't become or

1733

01:22:25,110 --> 01:22:22,000

seem so impossible

1734

01:22:26,709 --> 01:22:25,120

back in 1962 senator cruz alluded to it

1735

01:22:27,830 --> 01:22:26,719

uh when president kennedy said we're

1736

01:22:29,510 --> 01:22:27,840

going to put a man on the moon and

1737

01:22:30,950 --> 01:22:29,520

return him safely to the earth the

1738

01:22:32,470 --> 01:22:30,960

entire planet thought that was

1739

01:22:34,870 --> 01:22:32,480

impossible

1740

01:22:36,470 --> 01:22:34,880

and less than 10 years later we did

1741

01:22:37,669 --> 01:22:36,480

exactly that and now we're looking at

1742

01:22:39,990 --> 01:22:37,679

going back and we're going to put our

1743

01:22:41,270 --> 01:22:40,000

first woman and our next man on the moon

1744

01:22:43,270 --> 01:22:41,280

and we're going to do the same exact

1745

01:22:44,950 --> 01:22:43,280

thing

1746

01:22:46,310 --> 01:22:44,960

now back to these small little problems

1747

01:22:47,750 --> 01:22:46,320

and how do you break them down you break

1748

01:22:51,510 --> 01:22:47,760

them down in these small things and then

1749

01:22:53,590 --> 01:22:51,520

you try the kids back to you guys

1750

01:22:55,750 --> 01:22:53,600

you try and when you try you don't just

1751

01:22:58,790 --> 01:22:55,760

give it a half-hearted effort you try

1752

01:23:00,390 --> 01:22:58,800

your absolute best and you put your best

1753

01:23:01,990 --> 01:23:00,400

towards it the reason a lot of people

1754

01:23:03,910 --> 01:23:02,000

don't try for things is because they're

1755

01:23:05,990 --> 01:23:03,920

afraid to fail

1756

01:23:08,229 --> 01:23:06,000

we learn more from our failures than we

1757

01:23:10,470 --> 01:23:08,239

ever do from our successes some smart

1758

01:23:12,390 --> 01:23:10,480

guy said that a long time ago and it's

1759

01:23:14,390 --> 01:23:12,400

absolutely true

1760

01:23:16,870 --> 01:23:14,400

successes are great don't be afraid of

1761

01:23:18,790 --> 01:23:16,880

the failures learn what you can and then

1762

01:23:20,950 --> 01:23:18,800

each time you try and you take one of

1763

01:23:22,390 --> 01:23:20,960

those steps you take another step and

1764

01:23:24,470 --> 01:23:22,400

you take another step and what happens

1765

01:23:26,470 --> 01:23:24,480

when you put steps together they become

1766

01:23:28,390 --> 01:23:26,480

a journey and we at nasa call those

1767

01:23:30,070 --> 01:23:28,400

journeys exploration

1768

01:23:31,669 --> 01:23:30,080

and that exploration is what we're all

1769

01:23:33,669 --> 01:23:31,679

up here to do and what all the people in

1770

01:23:35,189 --> 01:23:33,679

the audience are out here to help us do

1771

01:23:36,709 --> 01:23:35,199

to accomplish these great goals that

1772

01:23:39,270 --> 01:23:36,719

we're putting in front of us

1773

01:23:41,189 --> 01:23:39,280

so just remember that no great leap has

1774

01:23:43,590 --> 01:23:41,199

ever been accomplished without first

1775

01:23:47,040 --> 01:23:43,600

taking a small step

1776

01:23:47,050 --> 01:23:53,270

[Applause]

1777

01:23:59,270 --> 01:23:57,430

bob you made a great point about 1962

1778

01:24:00,790 --> 01:23:59,280

and the audacious goal that was set

1779

01:24:03,030 --> 01:24:00,800

before the nation

1780

01:24:04,950 --> 01:24:03,040

and everybody thought it was impossible

1781

01:24:06,629 --> 01:24:04,960

including people that were surrounding

1782

01:24:09,189 --> 01:24:06,639

president kennedy at the time thought he

1783

01:24:10,629 --> 01:24:09,199

was crazy for making that audacious

1784

01:24:12,790 --> 01:24:10,639

declaration

1785

01:24:14,470 --> 01:24:12,800

in the house of representatives

1786

01:24:17,030 --> 01:24:14,480

but here's the thing we have today that

1787

01:24:19,910 --> 01:24:17,040

we didn't have in 1962. number one we've

1788

01:24:20,870 --> 01:24:19,920

got the johnson space center

1789

01:24:24,229 --> 01:24:20,880

we have

1790

01:24:29,030 --> 01:24:25,030

it's

1791

01:24:31,030 --> 01:24:29,040

infrastructure that was required to make

1792

01:24:33,110 --> 01:24:31,040

that happen didn't even exist back then

1793

01:24:34,709 --> 01:24:33,120

and yet he still declared it so and of

1794

01:24:36,550 --> 01:24:34,719

course it rallied a nation and it made

1795

01:24:37,590 --> 01:24:36,560

it happen that is in fact why dates are

1796

01:24:39,110 --> 01:24:37,600

important

1797

01:24:40,790 --> 01:24:39,120

and when we think about what we have now

1798

01:24:42,149 --> 01:24:40,800

with all of the launch infrastructure

1799

01:24:44,390 --> 01:24:42,159

and all of the mission control

1800

01:24:46,070 --> 01:24:44,400

infrastructure the great scientists and

1801

01:24:47,990 --> 01:24:46,080

the engineers and all of the know-how

1802

01:24:49,910 --> 01:24:48,000

and understanding we have today we are

1803

01:24:52,470 --> 01:24:49,920

in fact going to make this happen to

1804

01:24:55,750 --> 01:24:52,480

land the next man and the first woman on

1805

01:24:58,310 --> 01:24:55,760

the moon by 2024. i will also say that

1806

01:25:00,790 --> 01:24:58,320

this astronaut class has an opportunity

1807

01:25:02,629 --> 01:25:00,800

to fly in the very near future

1808

01:25:04,149 --> 01:25:02,639

back to the international space station

1809

01:25:12,790 --> 01:25:04,159

on american built rockets under the

1810

01:25:16,550 --> 01:25:14,470

so we think about commercial crew we

1811

01:25:18,709 --> 01:25:16,560

think about the sls system the orion

1812

01:25:20,310 --> 01:25:18,719

crew capsule the gateway and now for the

1813

01:25:23,430 --> 01:25:20,320

first time

1814

01:25:25,110 --> 01:25:23,440

since the 1960s we have funded a human

1815

01:25:26,950 --> 01:25:25,120

landing system to get from the orbit

1816

01:25:29,030 --> 01:25:26,960

around the moon down to the surface of

1817

01:25:30,470 --> 01:25:29,040

the moon to the tune of 600 million

1818

01:25:38,830 --> 01:25:30,480

dollars thank you so much to the

1819

01:25:43,669 --> 01:25:41,350

happen and all of that environmental

1820

01:25:45,830 --> 01:25:43,679

control life support system capability

1821

01:25:47,750 --> 01:25:45,840

the human to machine interface and your

1822

01:25:49,030 --> 01:25:47,760

input on those systems

1823

01:25:50,950 --> 01:25:49,040

in fact you guys are going to be

1824

01:25:52,950 --> 01:25:50,960

involved in helping design

1825

01:25:55,110 --> 01:25:52,960

those systems and we are grateful for

1826

01:25:56,550 --> 01:25:55,120

your service and that all that work on

1827

01:25:59,350 --> 01:25:56,560

those programs will be done right here

1828

01:26:01,430 --> 01:25:59,360

at the johnson space center know this

1829

01:26:03,990 --> 01:26:01,440

we have a lot under development we have

1830

01:26:06,470 --> 01:26:04,000

more under development right now at nasa

1831

01:26:08,709 --> 01:26:06,480

than at any point in nasa's history

1832

01:26:09,990 --> 01:26:08,719

and that gives you number one a lot of

1833

01:26:11,590 --> 01:26:10,000

opportunity

1834

01:26:13,510 --> 01:26:11,600

and it gives us

1835

01:26:15,669 --> 01:26:13,520

a lot of responsibility

1836

01:26:17,830 --> 01:26:15,679

um and of course our goal and i'm saying

1837

01:26:20,709 --> 01:26:17,840

this for the families we have one

1838

01:26:23,669 --> 01:26:20,719

highest priority that is over every

1839

01:26:26,229 --> 01:26:23,679

other priority and that is your safety

1840

01:26:28,229 --> 01:26:26,239

we are going to build the absolute best

1841

01:26:30,470 --> 01:26:28,239

absolute safest capability with the

1842

01:26:32,950 --> 01:26:30,480

support from our legislators to make

1843

01:26:34,550 --> 01:26:32,960

sure that not only you go to the moon or

1844

01:26:36,709 --> 01:26:34,560

to the international space station and

1845

01:26:39,189 --> 01:26:36,719

maybe one of you will go to mars

1846

01:26:41,669 --> 01:26:39,199

but you come home safely because that is

1847

01:26:43,990 --> 01:26:41,679

the ultimate objective we care about you

1848

01:26:45,990 --> 01:26:44,000

we love you to think about what you're

1849

01:26:47,990 --> 01:26:46,000

about to do to inspire this nation to

1850

01:26:49,590 --> 01:26:48,000

inspire these young folks it is

1851
01:26:51,750 --> 01:26:49,600
astonishing and we think about the

1852
01:26:53,350 --> 01:26:51,760
people that came before you

1853
01:26:55,270 --> 01:26:53,360
you know we think about

1854
01:26:56,950 --> 01:26:55,280
i'll tell you my first memory of

1855
01:26:59,350 --> 01:26:56,960
something significant that happened in

1856
01:27:00,870 --> 01:26:59,360
space i was in fifth grade and mrs

1857
01:27:02,870 --> 01:27:00,880
powers came in

1858
01:27:04,550 --> 01:27:02,880
and she was crying

1859
01:27:06,470 --> 01:27:04,560
because of the challenger incident they

1860
01:27:08,149 --> 01:27:06,480
rolled in the tvs and we all watched

1861
01:27:10,470 --> 01:27:08,159
with astonishment

1862
01:27:12,390 --> 01:27:10,480
but here's the thing i'm the first nasa

1863
01:27:14,149 --> 01:27:12,400

administrator in history

1864

01:27:17,430 --> 01:27:14,159

that wasn't alive when we put neil

1865

01:27:21,430 --> 01:27:17,440

armstrong and buzz aldrin on the moon

1866

01:27:23,510 --> 01:27:21,440

that that is a failure of this nation

1867

01:27:25,189 --> 01:27:23,520

and we cannot let another generation go

1868

01:27:27,189 --> 01:27:25,199

by where we don't have people living and

1869

01:27:29,270 --> 01:27:27,199

working on another world i want people

1870

01:27:31,270 --> 01:27:29,280

to remember exactly where they were as i

1871

01:27:32,950 --> 01:27:31,280

remember exactly where i was

1872

01:27:33,910 --> 01:27:32,960

i want people to remember exactly where

1873

01:27:36,229 --> 01:27:33,920

they were

1874

01:27:38,709 --> 01:27:36,239

when under the artemis program this

1875

01:27:40,470 --> 01:27:38,719

generation the artemis generation landed

1876

01:27:51,669 --> 01:27:40,480

the next man and the first woman on the

1877

01:27:56,470 --> 01:27:54,310

ladies and gentlemen if today

1878

01:27:57,669 --> 01:27:56,480

hasn't inspired you enough i want you to

1879

01:27:59,510 --> 01:27:57,679

know this

1880

01:28:01,590 --> 01:27:59,520

there's a lot of people watching online

1881

01:28:03,430 --> 01:28:01,600

maybe on nasa tv young folks that are

1882

01:28:05,270 --> 01:28:03,440

here in the audience

1883

01:28:07,910 --> 01:28:05,280

in the spring

1884

01:28:09,669 --> 01:28:07,920

listen to me this is going to make news

1885

01:28:12,070 --> 01:28:09,679

you need to be a part of it

1886

01:28:14,550 --> 01:28:12,080

we are going to have

1887

01:28:16,550 --> 01:28:14,560

applications being accepted for a new

1888

01:28:18,470 --> 01:28:16,560

astronaut class

1889

01:28:20,390 --> 01:28:18,480

and you guys are blazing the trail for

1890

01:28:21,830 --> 01:28:20,400

the artemis generation so if you are

1891

01:28:23,590 --> 01:28:21,840

interested

1892

01:28:29,750 --> 01:28:23,600

nasa.gov

1893

01:28:31,590 --> 01:28:29,760

how ultimately you might one day also

1894

01:28:34,390 --> 01:28:31,600

become an astronaut that announcement

1895

01:28:35,510 --> 01:28:34,400

will be coming in the spring so in

1896

01:28:37,350 --> 01:28:35,520

closing

1897

01:28:39,350 --> 01:28:37,360

thank you for what you have done

1898

01:28:41,910 --> 01:28:39,360

thank you for what you will do

1899

01:28:43,830 --> 01:28:41,920

not just me and nasa but the entire

1900

01:28:46,070 --> 01:28:43,840

nation is grateful let's come up for one

1901

01:28:47,510 --> 01:28:46,080

final picture and then we'll do it just

1902

01:28:49,510 --> 01:28:47,520

with the astronauts at first and then

1903

01:28:57,450 --> 01:28:49,520

we'll have everybody else join so come

1904

01:29:16,780 --> 01:29:06,680

[Music]

1905

01:29:17,330 --> 01:29:16,790

[Applause]

1906

01:29:19,880 --> 01:29:17,340

[Music]

1907

01:29:21,340 --> 01:29:19,890

[Applause]

1908

01:29:23,190 --> 01:29:21,350

[Music]

1909

01:29:27,060 --> 01:29:23,200

[Applause]

1910

01:29:38,020 --> 01:29:27,070

[Music]

1911

01:29:45,510 --> 01:29:38,030

[Applause]