



1  
00:00:09,030 --> 00:00:07,590  
i am delighted to be here

2  
00:00:12,230 --> 00:00:09,040  
and i'm particularly delighted to be

3  
00:00:18,310 --> 00:00:16,230  
why choose this as our government

4  
00:00:21,830 --> 00:00:18,320  
and they may well ask

5  
00:00:24,070 --> 00:00:21,840  
why climb the highest level

6  
00:00:27,029 --> 00:00:24,080  
five 35 years ago

7  
00:00:27,039 --> 00:00:42,630  
we choose to go to the moon

8  
00:00:42,640 --> 00:00:53,029  
not

9  
00:00:59,189 --> 00:00:55,830  
and measure the best

10  
00:01:01,510 --> 00:00:59,199  
of our energies and skills

11  
00:01:04,229 --> 00:01:01,520  
because that challenge is one that we're

12  
00:01:08,149 --> 00:01:04,239  
willing to accept

13  
00:01:32,149 --> 00:01:08,159

one we are willing to postpone

14

00:01:48,789 --> 00:01:46,950

oh

15

00:01:52,149 --> 00:01:48,799

say

16

00:01:54,510 --> 00:01:52,159

can you see

17

00:01:57,350 --> 00:01:54,520

my dawn's

18

00:01:58,910 --> 00:01:57,360

early light

19

00:02:01,230 --> 00:01:58,920

what so

20

00:02:05,030 --> 00:02:01,240

proudly we

21

00:02:06,830 --> 00:02:05,040

hailed at the twilight's

22

00:02:10,309 --> 00:02:06,840

last

23

00:02:12,949 --> 00:02:10,319

gleaming who's brought stripes and

24

00:02:14,589 --> 00:02:12,959

bright stars

25

00:02:19,949 --> 00:02:14,599

through the

26

00:02:27,229 --> 00:02:23,589

is we watched

27

00:02:28,949 --> 00:02:27,239

were so gallantly

28

00:02:31,670 --> 00:02:28,959

streaming

29

00:02:33,990 --> 00:02:31,680

and the rockets

30

00:02:36,869 --> 00:02:34,000

regular

31

00:02:39,509 --> 00:02:36,879

the bombs bursting

32

00:02:41,830 --> 00:02:39,519

in air

33

00:02:43,270 --> 00:02:41,840

gave proof

34

00:02:45,030 --> 00:02:43,280

through the

35

00:02:59,430 --> 00:02:45,040

night

36

00:02:59,440 --> 00:03:16,710

way

37

00:03:53,270 --> 00:03:28,390

r

38

00:03:54,710 --> 00:03:53,280

this iconic facility

39

00:03:56,550 --> 00:03:54,720

i'd like to welcome the elected

40

00:03:58,070 --> 00:03:56,560

officials and their representatives in

41

00:04:00,630 --> 00:03:58,080

the audience today

42

00:04:02,869 --> 00:04:00,640

as well as our distinguished guests

43

00:04:05,270 --> 00:04:02,879

nasa administrator charlie bolden

44

00:04:08,149 --> 00:04:05,280

members of the apollo 11 crew

45

00:04:11,110 --> 00:04:08,159

lunar module pilot buzz aldrin command

46

00:04:13,270 --> 00:04:11,120

module pilot michael collins and backup

47

00:04:15,670 --> 00:04:13,280

commander jim lovell

48

00:04:17,749 --> 00:04:15,680

we're also privileged to have members of

49

00:04:19,030 --> 00:04:17,759

the armstrong family with us today and

50

00:04:21,509 --> 00:04:19,040

please welcome

51

00:04:24,230 --> 00:04:21,519

mrs janet armstrong

52

00:04:26,550 --> 00:04:24,240

mark armstrong their youngest son

53

00:04:28,790 --> 00:04:26,560

rick armstrong their oldest son

54

00:04:30,950 --> 00:04:28,800

and rick's children lily and bryce

55

00:04:41,510 --> 00:04:30,960

armstrong

56

00:04:45,189 --> 00:04:43,830

today we honor an american hero

57

00:04:46,469 --> 00:04:45,199

an astronaut

58

00:04:47,749 --> 00:04:46,479

a pilot

59

00:04:50,469 --> 00:04:47,759

a professor

60

00:04:52,629 --> 00:04:50,479

a father and a friend

61

00:04:54,629 --> 00:04:52,639

in 1966

62

00:04:57,030 --> 00:04:54,639

neil was the command pilot

63

00:04:58,710 --> 00:04:57,040

of the gemini 8 mission

64

00:05:01,110 --> 00:04:58,720

during which he performed the first

65

00:05:03,350 --> 00:05:01,120

successful successful docking of two

66

00:05:05,909 --> 00:05:03,360

vehicles in space

67

00:05:08,550 --> 00:05:05,919

this was an amazing accomplishment

68

00:05:09,749 --> 00:05:08,560

but it would be another first one small

69

00:05:11,909 --> 00:05:09,759

step

70

00:05:14,629 --> 00:05:11,919

that would earn him instant recognition

71

00:05:16,870 --> 00:05:14,639

for generations to come

72

00:05:19,270 --> 00:05:16,880

as the commander of apollo 11

73

00:05:21,830 --> 00:05:19,280

neil's step onto the moon's surface

74

00:05:23,590 --> 00:05:21,840

not only fulfilled the national goal set

75

00:05:25,909 --> 00:05:23,600

by president kennedy

76

00:05:27,830 --> 00:05:25,919

but established america as the space

77

00:05:29,430 --> 00:05:27,840

leader

78

00:05:30,710 --> 00:05:29,440

neil was one of the finest gentlemen

79

00:05:33,510 --> 00:05:30,720

i've ever known

80

00:05:35,749 --> 00:05:33,520

i loved talking to him about flying

81

00:05:37,350 --> 00:05:35,759

i think more than an astronaut

82

00:05:40,629 --> 00:05:37,360

neil was a pilot

83

00:05:42,310 --> 00:05:40,639

a superb engineering test pilot

84

00:05:44,710 --> 00:05:42,320

i remember one time at dinner we were

85

00:05:46,390 --> 00:05:44,720

talking about lifting bodies in the new

86

00:05:48,870 --> 00:05:46,400

commercial crew market

87

00:05:51,189 --> 00:05:48,880

and neil talked about his experience

88

00:05:52,469 --> 00:05:51,199

in a meeting that he participated in out

89

00:05:54,230 --> 00:05:52,479

on the west coast

90

00:05:56,710 --> 00:05:54,240

where the decision was made to go with a

91

00:05:58,950 --> 00:05:56,720

capsule for the mercury program

92

00:06:01,189 --> 00:05:58,960

it was a faster way of having success to

93

00:06:02,710 --> 00:06:01,199

and from low earth orbit

94

00:06:04,870 --> 00:06:02,720

he was a wealth of knowledge and he

95

00:06:06,950 --> 00:06:04,880

loved to share it

96

00:06:09,430 --> 00:06:06,960

kennedy space center was proud to launch

97

00:06:10,870 --> 00:06:09,440

neil buzz and mike on their historic

98

00:06:13,189 --> 00:06:10,880

mission

99

00:06:15,590 --> 00:06:13,199

but before they could make history the

100

00:06:17,510 --> 00:06:15,600

apollo 11 crew members spent time right

101  
00:06:20,309 --> 00:06:17,520  
here in the operations and checkout

102  
00:06:23,189 --> 00:06:20,319  
building or onc

103  
00:06:25,749 --> 00:06:23,199  
built in january 1963

104  
00:06:28,070 --> 00:06:25,759  
the onc was first used to process some

105  
00:06:31,189 --> 00:06:28,080  
of the gemini spacecraft

106  
00:06:33,270 --> 00:06:31,199  
as project gemini ended the onc was used

107  
00:06:34,629 --> 00:06:33,280  
to test and process all of the apollo

108  
00:06:36,230 --> 00:06:34,639  
spacecraft

109  
00:06:40,070 --> 00:06:36,240  
and the astronaut crews spent three

110  
00:06:43,029 --> 00:06:40,080  
months training here for their missions

111  
00:06:45,510 --> 00:06:43,039  
as our space program changed the onc was

112  
00:06:47,510 --> 00:06:45,520  
modified to accommodate the needs of

113  
00:06:49,830 --> 00:06:47,520

subsequent programs

114

00:06:51,270 --> 00:06:49,840

the apollo soyuz test project

115

00:06:53,189 --> 00:06:51,280

skylab

116

00:06:54,070 --> 00:06:53,199

i spent some time here training in space

117

00:06:55,990 --> 00:06:54,080

lab

118

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

the shuttle program in the international

119

00:07:01,110 --> 00:06:57,919

space station

120

00:07:03,430 --> 00:07:01,120

remodeled again in 2009

121

00:07:05,909 --> 00:07:03,440

it is being used today for the assembly

122

00:07:07,029 --> 00:07:05,919

and test of the orion multi-purpose crew

123

00:07:09,110 --> 00:07:07,039

vehicle

124

00:07:11,830 --> 00:07:09,120

and as you can see

125

00:07:14,469 --> 00:07:11,840

exploration flight test 1 or eft-1

126

00:07:17,589 --> 00:07:14,479

spacecraft is being prepared for his

127

00:07:19,510 --> 00:07:17,599

test flight later this year

128

00:07:21,830 --> 00:07:19,520

the building also contains the astronaut

129

00:07:23,110 --> 00:07:21,840

crew quarters where crews stay prior to

130

00:07:25,430 --> 00:07:23,120

their missions

131

00:07:27,990 --> 00:07:25,440

it's our home away from home and the

132

00:07:29,510 --> 00:07:28,000

staff there was like family

133

00:07:31,029 --> 00:07:29,520

i'll never forget my first time in

134

00:07:32,309 --> 00:07:31,039

astronaut crew quarters before it was

135

00:07:34,390 --> 00:07:32,319

remodeled

136

00:07:36,950 --> 00:07:34,400

here i was staying in the same rooms as

137

00:07:38,469 --> 00:07:36,960

the apollo astronauts stayed in

138

00:07:41,270 --> 00:07:38,479

that was pretty neat for somebody who

139

00:07:42,790 --> 00:07:41,280

was awed by their accomplishments

140

00:07:44,390 --> 00:07:42,800

and i don't know if it was true during

141

00:07:46,790 --> 00:07:44,400

the apollo program

142

00:07:49,029 --> 00:07:46,800

but they had the absolute best homemade

143

00:07:51,029 --> 00:07:49,039

chocolate chip cookies

144

00:07:53,350 --> 00:07:51,039

and in that walk out to the astrovan

145

00:07:54,869 --> 00:07:53,360

after suiting up that was something

146

00:07:56,869 --> 00:07:54,879

special

147

00:07:58,710 --> 00:07:56,879

since 1965

148

00:08:00,469 --> 00:07:58,720

the operations and checkout building has

149

00:08:02,629 --> 00:08:00,479

been the final stop for america's

150

00:08:04,550 --> 00:08:02,639

astronauts before they embarked on their

151  
00:08:06,390 --> 00:08:04,560  
space journeys

152  
00:08:07,430 --> 00:08:06,400  
like all the others the crew members of

153  
00:08:10,230 --> 00:08:07,440  
apollo

154  
00:08:12,710 --> 00:08:10,240  
11 left their mark not only on the moon

155  
00:08:15,749 --> 00:08:12,720  
but here in this building

156  
00:08:16,950 --> 00:08:15,759  
45 years later neil's spirit lives on in

157  
00:08:18,150 --> 00:08:16,960  
these halls

158  
00:08:20,070 --> 00:08:18,160  
in our hearts

159  
00:08:22,629 --> 00:08:20,080  
and now his name will be a constant

160  
00:08:24,550 --> 00:08:22,639  
reminder of where we've been

161  
00:08:27,510 --> 00:08:24,560  
and that in his words

162  
00:08:30,550 --> 00:08:27,520  
our opportunities are unlimited

163  
00:08:33,750 --> 00:08:30,560

words cannot express how honored i am to

164

00:08:35,750 --> 00:08:33,760

be part of this historic moment today

165

00:08:45,670 --> 00:08:35,760

and now it's my privilege to introduce

166

00:08:48,550 --> 00:08:47,030

bob thanks very much for your

167

00:08:51,190 --> 00:08:48,560

introduction and thanks for your great

168

00:08:53,430 --> 00:08:51,200

remarks and um i want to echo bob's

169

00:08:56,310 --> 00:08:53,440

thanks to all the members of the nasa

170

00:08:59,030 --> 00:08:56,320

family and the ksc community who are

171

00:09:00,790 --> 00:08:59,040

with us today lots of you way back there

172

00:09:03,829 --> 00:09:00,800

but hopefully you can hear us and it's

173

00:09:05,990 --> 00:09:03,839

not just echoing around the building

174

00:09:07,110 --> 00:09:06,000

i want to begin my remarks by reminding

175

00:09:10,150 --> 00:09:07,120

all of us

176

00:09:13,030 --> 00:09:10,160

why we're here on the space coast today

177

00:09:15,590 --> 00:09:13,040

45 years ago nasa's journey to land the

178

00:09:17,910 --> 00:09:15,600

first humans on the moon began right

179

00:09:19,670 --> 00:09:17,920

here at the kennedy space center

180

00:09:21,430 --> 00:09:19,680

nasa astronauts beginning with the

181

00:09:24,389 --> 00:09:21,440

mercury seven and continuing through

182

00:09:26,310 --> 00:09:24,399

gemini and apollo years blasted off from

183

00:09:28,710 --> 00:09:26,320

these storied shores

184

00:09:30,949 --> 00:09:28,720

for 30 years the unprecedented success

185

00:09:31,990 --> 00:09:30,959

of our space shuttle program was made

186

00:09:33,030 --> 00:09:32,000

possible

187

00:09:35,030 --> 00:09:33,040

by you

188

00:09:37,430 --> 00:09:35,040

the men and women of the kennedy space

189

00:09:39,590 --> 00:09:37,440

center so today

190

00:09:41,990 --> 00:09:39,600

we have come home to commemorate what is

191

00:09:44,310 --> 00:09:42,000

arguably the most significant event in

192

00:09:48,829 --> 00:09:44,320

the history of human exploration

193

00:09:51,829 --> 00:09:48,839

the apollo 11 moon landing of july 20th

194

00:09:53,670 --> 00:09:51,839

1969 we're very fortunate to have with

195

00:09:56,230 --> 00:09:53,680

us two of the members of that historic

196

00:09:59,030 --> 00:09:56,240

mission buzz aldrin and mike collins

197

00:10:01,110 --> 00:09:59,040

as well as backup commander jim lovell

198

00:10:02,310 --> 00:10:01,120

and the late neil armstrong sons mark

199

00:10:03,509 --> 00:10:02,320

and rick who

200

00:10:05,190 --> 00:10:03,519

bob

201  
00:10:07,269 --> 00:10:05,200  
introduced earlier

202  
00:10:09,590 --> 00:10:07,279  
they will help us mark this anniversary

203  
00:10:12,870 --> 00:10:09,600  
with the renaming of the operating

204  
00:10:15,990 --> 00:10:12,880  
checkout building for their father

205  
00:10:19,190 --> 00:10:16,000  
as bob we are ready for the event

206  
00:10:21,030 --> 00:10:19,200  
see there's a center patrol houston as

207  
00:10:23,350 --> 00:10:21,040  
bob explained this building holds a

208  
00:10:24,870 --> 00:10:23,360  
special place in nasa history

209  
00:10:27,430 --> 00:10:24,880  
it served as the cool quarters for

210  
00:10:29,269 --> 00:10:27,440  
generations of nasa astronauts myself

211  
00:10:31,590 --> 00:10:29,279  
included who spent the final days

212  
00:10:33,430 --> 00:10:31,600  
leading up to launch in this facility

213  
00:10:35,590 --> 00:10:33,440

millions of people around the world have

214

00:10:37,910 --> 00:10:35,600

been riveted by those iconic pictures of

215

00:10:39,670 --> 00:10:37,920

astronauts in their flight suits walking

216

00:10:41,750 --> 00:10:39,680

out of this very building on their way

217

00:10:44,150 --> 00:10:41,760

to those daring missions

218

00:10:46,710 --> 00:10:44,160

nasa's next giant leap into space is

219

00:10:48,389 --> 00:10:46,720

taking shape right here the new orion

220

00:10:50,230 --> 00:10:48,399

multi-purpose crew vehicle is being

221

00:10:52,710 --> 00:10:50,240

assembled and tested within these very

222

00:10:54,790 --> 00:10:52,720

walls in preparation for its first test

223

00:10:56,949 --> 00:10:54,800

flight later this year

224

00:10:59,110 --> 00:10:56,959

and its eventual use for human missions

225

00:11:01,590 --> 00:10:59,120

to an asteroid in mars

226

00:11:03,829 --> 00:11:01,600

it's altogether fitting that today

227

00:11:05,990 --> 00:11:03,839

we renamed this facility the neil

228

00:11:06,949 --> 00:11:06,000

armstrong operations and checkout

229

00:11:09,350 --> 00:11:06,959

building

230

00:11:12,230 --> 00:11:09,360

commander armstrong was not only the

231

00:11:14,630 --> 00:11:12,240

first human to set foot on the moon

232

00:11:16,389 --> 00:11:14,640

throughout his life he served his

233

00:11:18,710 --> 00:11:16,399

country as an astronaut

234

00:11:21,350 --> 00:11:18,720

an aerospace engineer a naval aviator

235

00:11:23,990 --> 00:11:21,360

test pilot and university professor and

236

00:11:26,870 --> 00:11:24,000

he constantly challenged all of us to

237

00:11:29,030 --> 00:11:26,880

expand the boundaries of the possible

238

00:11:31,350 --> 00:11:29,040

he along with his crewmates buzz aldrin

239

00:11:34,150 --> 00:11:31,360

michael collins are a bridge

240

00:11:38,630 --> 00:11:34,160

from nasa's historic journey to the moon

241

00:11:40,069 --> 00:11:38,640

45 years ago to our path to mars today

242

00:11:41,910 --> 00:11:40,079

at this time

243

00:11:44,310 --> 00:11:41,920

i'd like to present to bob cabana a

244

00:11:46,550 --> 00:11:44,320

unique symbol of that bridge

245

00:11:48,630 --> 00:11:46,560

i didn't know about this until recently

246

00:11:50,790 --> 00:11:48,640

in 1987

247

00:11:53,430 --> 00:11:50,800

neil buzz and michael signed and

248

00:11:56,230 --> 00:11:53,440

presented a special patch that flew on

249

00:11:58,550 --> 00:11:56,240

their apollo 11 mission to then nasa

250

00:12:00,550 --> 00:11:58,560

administrator james c fletcher

251  
00:12:02,710 --> 00:12:00,560  
those of you who are familiar with nasa

252  
00:12:05,670 --> 00:12:02,720  
know that mission patches are common

253  
00:12:08,389 --> 00:12:05,680  
mementos and keepsakes

254  
00:12:10,550 --> 00:12:08,399  
that accompany just about every mission

255  
00:12:13,670 --> 00:12:10,560  
but what is unique about this patch is

256  
00:12:16,230 --> 00:12:13,680  
its inscription that reads

257  
00:12:18,949 --> 00:12:16,240  
carried to the moon aboard apollo 11

258  
00:12:20,949 --> 00:12:18,959  
presented to the mars one crew

259  
00:12:21,910 --> 00:12:20,959  
and it's signed by neil

260  
00:12:25,430 --> 00:12:21,920  
buzz

261  
00:12:27,430 --> 00:12:25,440  
michael collins so 27 years ago the men

262  
00:12:30,790 --> 00:12:27,440  
who accomplished what many believed was

263  
00:12:34,069 --> 00:12:30,800

impossible were already imagining nasa's

264

00:12:36,790 --> 00:12:34,079

next giant leap a human mission to mars

265

00:12:39,110 --> 00:12:36,800

and they had no doubt we would succeed

266

00:12:40,310 --> 00:12:39,120

let me tell you neither do i and neither

267

00:12:42,550 --> 00:12:40,320

does this guy i'm getting ready to

268

00:12:55,030 --> 00:12:42,560

present it to so bob if you'd accept

269

00:12:58,389 --> 00:12:56,230

that is just

270

00:13:00,629 --> 00:12:58,399

unbelievably cool

271

00:13:02,310 --> 00:13:00,639

well we present that patch to bob for

272

00:13:04,550 --> 00:13:02,320

safe keeping because it's here at the

273

00:13:06,389 --> 00:13:04,560

kennedy space center where the mars one

274

00:13:07,509 --> 00:13:06,399

crew will lift off on america's next

275

00:13:09,190 --> 00:13:07,519

bowl mission

276

00:13:10,230 --> 00:13:09,200

going farther into space than ever

277

00:13:12,069 --> 00:13:10,240

before

278

00:13:14,470 --> 00:13:12,079

we salute neil armstrong and his

279

00:13:16,870 --> 00:13:14,480

crewmates for blazing a path that is

280

00:13:19,509 --> 00:13:16,880

leading us all on the way from the first

281

00:13:22,230 --> 00:13:19,519

footprints on the moon to very soon the

282

00:13:24,150 --> 00:13:22,240

first footprints on mars and so now i'm

283

00:13:26,310 --> 00:13:24,160

going to turn it back over to bob cabana

284

00:13:27,750 --> 00:13:26,320

because we have some other friends who

285

00:13:29,430 --> 00:13:27,760

would like to talk to you all and i'm

286

00:13:31,110 --> 00:13:29,440

going to let bob take care of you you

287

00:13:36,870 --> 00:13:31,120

stay up here sir i think we got some

288

00:13:41,990 --> 00:13:38,710

station this is a kennedy space center

289

00:13:45,030 --> 00:13:42,949

be here

290

00:13:50,949 --> 00:13:45,040

we have you loud and clear hey swanny

291

00:13:55,350 --> 00:13:53,509

he's going to talk to you too mr cabana

292

00:13:59,910 --> 00:13:55,360

mr cabana no

293

00:14:04,389 --> 00:14:02,550

hey so what do you think uh you know

294

00:14:11,110 --> 00:14:04,399

what it what did the apollo program mean

295

00:14:14,870 --> 00:14:13,110

inspiration for me it's one of the

296

00:14:16,470 --> 00:14:14,880

reasons why i'm here right now i mean it

297

00:14:17,189 --> 00:14:16,480

was amazing thing to see

298

00:14:18,870 --> 00:14:17,199

and

299

00:14:20,470 --> 00:14:18,880

it gave me so much

300

00:14:22,870 --> 00:14:20,480

hope that i could do the same thing i'm

301

00:14:25,750 --> 00:14:22,880

just wonderful you

302

00:14:28,710 --> 00:14:25,760

well swanny i wasn't alive when apollo

303

00:14:32,069 --> 00:14:28,720

11 stepped foot on the moon

304

00:14:36,470 --> 00:14:34,550

but as a child growing up by every every

305

00:14:38,470 --> 00:14:36,480

summer we went on vacation to ocean city

306

00:14:39,990 --> 00:14:38,480

maryland and that's where my parents

307

00:14:41,829 --> 00:14:40,000

watched uh

308

00:14:43,269 --> 00:14:41,839

watch neil make those first footprints

309

00:14:45,829 --> 00:14:43,279

on the moon and they used to tell me

310

00:14:47,670 --> 00:14:45,839

this story every single summer so i grew

311

00:14:49,590 --> 00:14:47,680

up with this in my mind all the time so

312

00:14:51,030 --> 00:14:49,600

like you said it was huge inspiration

313

00:14:52,790 --> 00:14:51,040

for me

314

00:14:55,430 --> 00:14:52,800

hey swanny i got a big question for you

315

00:14:58,310 --> 00:14:55,440

because i think i i know you taught me

316

00:14:59,750 --> 00:14:58,320

how to fly the shuttle because many

317

00:15:01,590 --> 00:14:59,760

people may not know this but steve

318

00:15:04,069 --> 00:15:01,600

swanson was once a flight what we call a

319

00:15:05,670 --> 00:15:04,079

flight simulation in engineering fse

320

00:15:08,470 --> 00:15:05,680

sitting in the center seat probably

321

00:15:10,949 --> 00:15:08,480

scared to death watching us try to land

322

00:15:11,829 --> 00:15:10,959

but he taught me how to fly shuttle and

323

00:15:14,790 --> 00:15:11,839

so

324

00:15:16,550 --> 00:15:14,800

in your wildest imagination

325

00:15:18,069 --> 00:15:16,560

did you ever envision you would be where

326

00:15:20,230 --> 00:15:18,079

you are today and what advice do you

327

00:15:25,990 --> 00:15:20,240

have to some some kids that are sitting

328

00:15:29,110 --> 00:15:27,910

it was a dream you know you don't ever

329

00:15:30,870 --> 00:15:29,120

think it's really going to come true

330

00:15:33,030 --> 00:15:30,880

just work hard at it and that's exactly

331

00:15:35,189 --> 00:15:33,040

what you do just persevere work hard

332

00:15:39,189 --> 00:15:35,199

enjoy life and maybe your dreams will

333

00:15:44,870 --> 00:15:42,949

so uh i don't know if you heard but

334

00:15:47,030 --> 00:15:44,880

charlie presented me with a patch that

335

00:15:49,590 --> 00:15:47,040

the apollo 11 crew took to the moon and

336

00:15:51,749 --> 00:15:49,600

signed and it was signed to the next

337

00:15:54,470 --> 00:15:51,759

nasa crew that goes to mars so what do

338

00:15:56,629 --> 00:15:54,480

you think about the iss as a as a test

339

00:16:03,189 --> 00:15:56,639

bed as a learning place for

340

00:16:07,269 --> 00:16:05,030

well bob if you're talking about long

341

00:16:09,590 --> 00:16:07,279

duration which a trip to mars is the

342

00:16:11,829 --> 00:16:09,600

epitome of long duration then this is

343

00:16:13,910 --> 00:16:11,839

where we start right here we have a

344

00:16:15,670 --> 00:16:13,920

regenerative environmental control

345

00:16:18,710 --> 00:16:15,680

system that's processing urine into

346

00:16:20,550 --> 00:16:18,720

water we're making our own oxygen

347

00:16:22,470 --> 00:16:20,560

we pretty much we're getting very close

348

00:16:24,949 --> 00:16:22,480

to a closed-loop system so

349

00:16:26,870 --> 00:16:24,959

this to me this and reliability of the

350

00:16:28,629 --> 00:16:26,880

spacecraft that's kind of the backbone

351

00:16:31,269 --> 00:16:28,639

of this mission that we have coming up

352

00:16:33,189 --> 00:16:31,279

and it all starts right here on the iss

353

00:16:34,790 --> 00:16:33,199

what about exercise and physical fitness

354

00:16:38,870 --> 00:16:34,800

how much you guys got to exercise up

355

00:16:42,470 --> 00:16:40,470

definitely that's another good point you

356

00:16:44,470 --> 00:16:42,480

know we've got to go to mars again a

357

00:16:45,990 --> 00:16:44,480

long duration we have to stay in shape

358

00:16:47,509 --> 00:16:46,000

ourselves and be ready to function when

359

00:16:49,430 --> 00:16:47,519

we get there and that's what we do we

360

00:16:51,910 --> 00:16:49,440

work out two hours every day about an

361

00:16:53,910 --> 00:16:51,920

hour of cardio and an hour of lifting

362

00:16:55,749 --> 00:16:53,920

weights and it works out well for us and

363

00:16:59,350 --> 00:16:55,759

i believe that with that kind of regime

364

00:17:01,350 --> 00:16:59,360

you could do well when you land on mars

365

00:17:03,670 --> 00:17:01,360

hey reid since you're the baby

366

00:17:05,350 --> 00:17:03,680

and you weren't alive you know do you

367

00:17:07,750 --> 00:17:05,360

have a message that you would like to

368

00:17:10,470 --> 00:17:07,760

give to the to the three apollo crew

369

00:17:12,230 --> 00:17:10,480

members that we have here uh we've got

370

00:17:14,150 --> 00:17:12,240

since you can't see us

371

00:17:16,789 --> 00:17:14,160

but we've got buzz aldrin and mike

372

00:17:18,470 --> 00:17:16,799

collins and and then jim lovell who was

373

00:17:23,750 --> 00:17:18,480

a backup mission commander what's your

374

00:17:27,909 --> 00:17:25,990

my message is simple these are heroes

375

00:17:28,710 --> 00:17:27,919

that i've had my entire life

376

00:17:32,150 --> 00:17:28,720

known

377

00:17:34,710 --> 00:17:32,160

lived and so i just want to say an

378

00:17:36,390 --> 00:17:34,720

enormous thank you thank you for putting

379

00:17:38,710 --> 00:17:36,400

our country on this path that we remain

380

00:17:40,549 --> 00:17:38,720

on today and without you gentlemen i

381

00:17:42,390 --> 00:17:40,559

wouldn't be up here with uh swany and my

382

00:17:54,870 --> 00:17:42,400

other crewmates today and so my dreams

383

00:17:58,310 --> 00:17:56,710

now um

384

00:18:00,710 --> 00:17:58,320

i don't know about bob bob probably

385

00:18:01,990 --> 00:18:00,720

dreamed of becoming the ksc

386

00:18:04,310 --> 00:18:02,000

director

387

00:18:06,549 --> 00:18:04,320

uh i thought i would be off somewhere

388

00:18:08,710 --> 00:18:06,559

making money by now so

389

00:18:11,669 --> 00:18:08,720

one of you will probably be in one of

390

00:18:13,350 --> 00:18:11,679

these two positions someday

391

00:18:16,070 --> 00:18:13,360

you know really seriously now that

392

00:18:18,310 --> 00:18:16,080

you've seen what you've seen

393

00:18:26,070 --> 00:18:18,320

tell me where you envision will be 45

394

00:18:29,590 --> 00:18:27,350

well

395

00:18:31,830 --> 00:18:29,600

i i hope much i hope

396

00:18:33,590 --> 00:18:31,840

he'll still be alive

397

00:18:35,750 --> 00:18:33,600

as bob cabana told me when i just

398

00:18:37,029 --> 00:18:35,760

started this path at nasa he told all of

399

00:18:38,549 --> 00:18:37,039

us uh

400

00:18:40,630 --> 00:18:38,559

it's better to have a mission ahead of

401  
00:18:42,390 --> 00:18:40,640  
you than a mission behind you and i hope

402  
00:18:44,710 --> 00:18:42,400  
people are lining up not for the mars

403  
00:18:46,470 --> 00:18:44,720  
one patch but for the mars 20 and who

404  
00:18:48,070 --> 00:18:46,480  
knows maybe uh heading out towards

405  
00:18:49,510 --> 00:18:48,080  
saturn or something crazy that we

406  
00:18:51,990 --> 00:18:49,520  
haven't even thought about yet so i

407  
00:18:54,070 --> 00:18:52,000  
think the future's bright

408  
00:18:55,830 --> 00:18:54,080  
yeah i'm with you reid i i think we have

409  
00:18:57,190 --> 00:18:55,840  
an outstanding future in front of us and

410  
00:18:58,789 --> 00:18:57,200  
part of it's sitting right behind us

411  
00:19:01,430 --> 00:18:58,799  
here in this orion spacecraft that's

412  
00:19:05,190 --> 00:19:01,440  
going to fly in in december we've got a

413  
00:19:09,270 --> 00:19:06,870

so you guys have been great

414

00:19:10,789 --> 00:19:09,280

in allowing us to come aboard and spend

415

00:19:12,630 --> 00:19:10,799

some time with you i know you've got

416

00:19:14,310 --> 00:19:12,640

four other crew members who are back

417

00:19:15,669 --> 00:19:14,320

there kind of backing you up and wishing

418

00:19:18,470 --> 00:19:15,679

they could be where you are so please

419

00:19:20,310 --> 00:19:18,480

tell them we said hello uh thanks for

420

00:19:21,830 --> 00:19:20,320

everything that you do and reid you're

421

00:19:25,510 --> 00:19:21,840

you know you're you're becoming a rock

422

00:19:29,190 --> 00:19:25,520

star with all your tweets and twits and

423

00:19:30,789 --> 00:19:29,200

instagram and all that other stuff so uh

424

00:19:33,110 --> 00:19:30,799

and it's good to see both of your hair

425

00:19:34,710 --> 00:19:33,120

growing back

426

00:19:37,990 --> 00:19:34,720

steve don't worry you're not a rock star

427

00:19:41,350 --> 00:19:39,909

was great talking to you guys any final

428

00:19:46,630 --> 00:19:41,360

remarks that you'd like to make before

429

00:19:52,070 --> 00:19:49,909

just again thanks and to repeat what uh

430

00:19:54,390 --> 00:19:52,080

reid said is thank you all who came

431

00:19:57,110 --> 00:19:54,400

before us you inspired us and you led

432

00:19:59,110 --> 00:19:57,120

the way for us we really appreciate it

433

00:20:15,110 --> 00:19:59,120

you guys just keep doing a great job up

434

00:20:18,789 --> 00:20:16,870

i forgot we're supposed to introduce the

435

00:20:21,190 --> 00:20:18,799

next person so it's my honor to

436

00:20:23,350 --> 00:20:21,200

introduce rick armstrong who's uh then

437

00:20:24,789 --> 00:20:23,360

gonna give us some remarks from the

438

00:20:35,350 --> 00:20:24,799

first set of remarks from the armstrong

439

00:20:39,750 --> 00:20:37,669

it occurred to me that if one gets and

440

00:20:42,070 --> 00:20:39,760

gets their name on a building

441

00:20:43,750 --> 00:20:42,080

it's not too much of a stretch

442

00:20:45,830 --> 00:20:43,760

to suppose that one could also be in

443

00:20:48,870 --> 00:20:45,840

charge of that building

444

00:20:50,870 --> 00:20:48,880

i started to think about what having dad

445

00:20:52,549 --> 00:20:50,880

in charge of this building would mean to

446

00:20:54,630 --> 00:20:52,559

those of you who worked here

447

00:20:57,350 --> 00:20:54,640

if he were here manning the

448

00:20:59,590 --> 00:20:57,360

manning his office and roaming the halls

449

00:21:01,590 --> 00:20:59,600

with that scenario in mind

450

00:21:04,630 --> 00:21:01,600

here are a few things you might find

451

00:21:08,630 --> 00:21:06,549

he will expect you to be honest and

452

00:21:10,470 --> 00:21:08,640

forthright at all times

453

00:21:12,710 --> 00:21:10,480

and he will be fair

454

00:21:14,390 --> 00:21:12,720

almost to a fault

455

00:21:17,430 --> 00:21:14,400

for example when he was a professor at

456

00:21:20,470 --> 00:21:17,440

the university of cincinnati

457

00:21:23,669 --> 00:21:20,480

he once wrote on a student's paper

458

00:21:28,230 --> 00:21:23,679

did you turn this in late

459

00:21:32,070 --> 00:21:30,470

i don't know actually what happened next

460

00:21:35,110 --> 00:21:32,080

in this case but i'm willing to bet that

461

00:21:39,430 --> 00:21:36,710

if he asked you about something and

462

00:21:42,630 --> 00:21:39,440

you're not prepared and should have been

463

00:21:44,390 --> 00:21:42,640

your best bet might be to stall

464

00:21:47,510 --> 00:21:44,400

my first suggestion is to ask him

465

00:21:49,909 --> 00:21:47,520

something about airplanes

466

00:21:52,230 --> 00:21:49,919

any airplane will do

467

00:21:53,990 --> 00:21:52,240

you might get lucky and get him off on a

468

00:21:55,350 --> 00:21:54,000

tangent so that he forgets his original

469

00:21:56,830 --> 00:21:55,360

question

470

00:21:58,950 --> 00:21:56,840

for a little while

471

00:22:00,789 --> 00:21:58,960

anyway if you've already used the

472

00:22:03,669 --> 00:22:00,799

airplane gambit

473

00:22:05,669 --> 00:22:03,679

you might try something like

474

00:22:08,390 --> 00:22:05,679

can you show me how to do inverse logs

475

00:22:09,909 --> 00:22:08,400

with a slide rule

476  
00:22:11,830 --> 00:22:09,919  
that should be good for a couple hours

477  
00:22:14,470 --> 00:22:11,840  
at least

478  
00:22:16,630 --> 00:22:14,480  
whatever you do don't try to bluff your

479  
00:22:20,310 --> 00:22:16,640  
way through the issue with him

480  
00:22:24,870 --> 00:22:22,789  
he will not tell you how to do your job

481  
00:22:26,390 --> 00:22:24,880  
he won't micromanage you

482  
00:22:27,270 --> 00:22:26,400  
it will certainly help you if you ask

483  
00:22:30,310 --> 00:22:27,280  
for it

484  
00:22:32,390 --> 00:22:30,320  
he won't do your work for you

485  
00:22:34,310 --> 00:22:32,400  
one possible exception to this

486  
00:22:36,070 --> 00:22:34,320  
feel free to ask him for help with your

487  
00:22:37,669 --> 00:22:36,080  
math problems

488  
00:22:39,669 --> 00:22:37,679

seriously not only will he explain the

489

00:22:41,110 --> 00:22:39,679

specifics of the problem

490

00:22:43,190 --> 00:22:41,120

you are working but he will also make

491

00:22:45,350 --> 00:22:43,200

sure you understand all the underlying

492

00:22:47,110 --> 00:22:45,360

concepts even ones you didn't know

493

00:22:48,789 --> 00:22:47,120

applied

494

00:22:51,190 --> 00:22:48,799

i i probably should have mentioned this

495

00:22:53,750 --> 00:22:51,200

as another stall tactic

496

00:22:56,230 --> 00:22:53,760

he won't pretend to know something

497

00:22:58,710 --> 00:22:56,240

about a subject he doesn't and he has no

498

00:23:00,710 --> 00:22:58,720

problem saying i don't know

499

00:23:02,390 --> 00:23:00,720

don't expect that situation to last very

500

00:23:04,710 --> 00:23:02,400

long

501  
00:23:06,310 --> 00:23:04,720  
he is a bit of a stickler for accuracy

502  
00:23:08,549 --> 00:23:06,320  
and precision

503  
00:23:10,230 --> 00:23:08,559  
so make sure that you are too

504  
00:23:11,990 --> 00:23:10,240  
although if you're working in this

505  
00:23:15,110 --> 00:23:12,000  
building i'm pretty sure you've probably

506  
00:23:16,950 --> 00:23:15,120  
got that concept covered already

507  
00:23:19,590 --> 00:23:16,960  
having been on the beneficiary of

508  
00:23:21,669 --> 00:23:19,600  
superlative work by so many on the

509  
00:23:23,990 --> 00:23:21,679  
ground in the past he knows how mission

510  
00:23:25,430 --> 00:23:24,000  
critical that is going forward

511  
00:23:28,310 --> 00:23:25,440  
and i'm quite sure he would have loved

512  
00:23:30,390 --> 00:23:28,320  
to have been a part of that for orion

513  
00:23:33,270 --> 00:23:30,400

i know we're all very much looking

514

00:23:35,350 --> 00:23:33,280

forward to seeing how that all unfolds

515

00:23:52,230 --> 00:23:35,360

now i'd like to ask my brother mark to

516

00:23:55,750 --> 00:23:53,990

on behalf of the armstrong family i'd

517

00:23:57,750 --> 00:23:55,760

like to thank you for this tremendous

518

00:24:00,870 --> 00:23:57,760

honor

519

00:24:02,549 --> 00:24:00,880

this orion vehicle behind us is

520

00:24:04,549 --> 00:24:02,559

truly impressive

521

00:24:06,070 --> 00:24:04,559

and it is our hope

522

00:24:07,510 --> 00:24:06,080

that the new name that graces this

523

00:24:09,590 --> 00:24:07,520

facility

524

00:24:11,510 --> 00:24:09,600

will inspire us that will inspire those

525

00:24:15,590 --> 00:24:11,520

to work here that work here

526

00:24:19,830 --> 00:24:17,510

on a beautiful florida morning in the

527

00:24:21,909 --> 00:24:19,840

late 1960s

528

00:24:24,070 --> 00:24:21,919

my father and one of his buddies

529

00:24:26,470 --> 00:24:24,080

one pete conrad

530

00:24:28,070 --> 00:24:26,480

found themselves here at the cape with a

531

00:24:31,510 --> 00:24:28,080

rare opening

532

00:24:33,269 --> 00:24:31,520

in their normally busy schedules

533

00:24:34,710 --> 00:24:33,279

the two of them decided to go water

534

00:24:36,470 --> 00:24:34,720

skiing

535

00:24:39,510 --> 00:24:36,480

and somehow acquired a boat on the

536

00:24:43,990 --> 00:24:41,669

at some point during their adventure

537

00:24:46,870 --> 00:24:44,000

pete was driving

538

00:24:49,269 --> 00:24:46,880

and dad was skiing behind

539

00:24:50,470 --> 00:24:49,279

and i should point out

540

00:24:53,029 --> 00:24:50,480

that

541

00:24:53,909 --> 00:24:53,039

in such a circumstance when you've got

542

00:24:57,350 --> 00:24:53,919

two

543

00:24:59,830 --> 00:24:57,360

athletic guys engaged in some sort of

544

00:25:01,830 --> 00:24:59,840

sporting activity

545

00:25:03,669 --> 00:25:01,840

it's perfectly natural and nearly

546

00:25:05,269 --> 00:25:03,679

unavoidable

547

00:25:07,990 --> 00:25:05,279

that a little friendly competition

548

00:25:11,350 --> 00:25:10,070

now it's no secret that pete liked to go

549

00:25:12,950 --> 00:25:11,360

fast

550

00:25:15,190 --> 00:25:12,960

and i suspect that

551  
00:25:16,950 --> 00:25:15,200  
in a good natured attempt to dump dad in

552  
00:25:18,950 --> 00:25:16,960  
the river

553  
00:25:20,630 --> 00:25:18,960  
he was doing his best to both maximize

554  
00:25:23,430 --> 00:25:20,640  
his velocity

555  
00:25:26,789 --> 00:25:23,440  
and to maneuver the boat in such a way

556  
00:25:28,870 --> 00:25:26,799  
as to force dad to jump the wake

557  
00:25:33,909 --> 00:25:28,880  
and he was most assuredly looking behind

558  
00:25:33,919 --> 00:25:43,669  
sort of like this

559  
00:25:50,950 --> 00:25:47,029  
and that is the precise moment

560  
00:25:54,870 --> 00:25:51,909  
well

561  
00:25:56,310 --> 00:25:54,880  
word got out that the incident occurred

562  
00:25:59,190 --> 00:25:56,320  
and some of the guys probably

563  
00:26:01,190 --> 00:25:59,200

spearheaded by uh well-known jokester

564

00:26:02,870 --> 00:26:01,200

wali shara

565

00:26:05,830 --> 00:26:02,880

wanted to make sure that

566

00:26:09,029 --> 00:26:05,840

the incident was not forgotten

567

00:26:11,350 --> 00:26:09,039

that it was forever memorialized

568

00:26:13,350 --> 00:26:11,360

and that it had it had happened under

569

00:26:15,750 --> 00:26:13,360

the expertly trained

570

00:26:17,430 --> 00:26:15,760

manual control

571

00:26:19,830 --> 00:26:17,440

of one of the world's most accomplished

572

00:26:21,430 --> 00:26:19,840

pilots

573

00:26:26,950 --> 00:26:21,440

as a result

574

00:26:26,960 --> 00:26:30,310

that's a cue

575

00:26:30,320 --> 00:26:39,110

can we get that on the big screen

576  
00:26:42,950 --> 00:26:40,870  
this painting was commissioned capturing

577  
00:26:47,350 --> 00:26:42,960  
that the boat was unquestionably run

578  
00:26:50,390 --> 00:26:49,029  
so to do our part

579  
00:26:52,950 --> 00:26:50,400  
to honor wally's wishes of

580  
00:26:54,789 --> 00:26:52,960  
memorialization

581  
00:26:57,029 --> 00:26:54,799  
we've had this painting restored and

582  
00:26:58,710 --> 00:26:57,039  
reproduced in jacly

583  
00:27:00,470 --> 00:26:58,720  
and with light hearts

584  
00:27:03,190 --> 00:27:00,480  
we hereby give this artist proof to

585  
00:27:17,190 --> 00:27:03,200  
kennedy space center for permanent safe

586  
00:27:20,789 --> 00:27:19,190  
the next speaker was a great friend and

587  
00:27:22,870 --> 00:27:20,799  
colleague of my father's

588  
00:27:25,750 --> 00:27:22,880

a fellow naval aviator

589

00:27:27,830 --> 00:27:25,760

and the backup commander for apollo 11.

590

00:27:29,669 --> 00:27:27,840

and i am fortunate enough

591

00:27:30,630 --> 00:27:29,679

to have him as a

592

00:27:33,029 --> 00:27:30,640

friend

593

00:27:35,350 --> 00:27:33,039

and a trusted advisor

594

00:27:38,789 --> 00:27:35,360

a stalwart of gemini and apollo

595

00:27:41,430 --> 00:27:38,799

he flew four times on germany 7 and 12

596

00:27:43,350 --> 00:27:41,440

and apollo 8 and 13.

597

00:27:45,909 --> 00:27:43,360

it is well chronicled that

598

00:27:48,789 --> 00:27:45,919

during apollo 13

599

00:27:50,149 --> 00:27:48,799

he used a mirror to look out the window

600

00:27:52,149 --> 00:27:50,159

and behind

601  
00:27:55,669 --> 00:27:52,159  
to observe evidence

602  
00:27:57,990 --> 00:27:55,679  
of an oxygen tank explosion

603  
00:27:59,830 --> 00:27:58,000  
a mirror that is now permanently affixed

604  
00:28:01,909 --> 00:27:59,840  
above the water fountain

605  
00:28:05,269 --> 00:28:01,919  
in the old mission control room at

606  
00:28:10,950 --> 00:28:07,990  
fortunately for all of us

607  
00:28:12,950 --> 00:28:10,960  
pete conrad used no such device

608  
00:28:14,310 --> 00:28:12,960  
to look behind him so many years ago on

609  
00:28:15,990 --> 00:28:14,320  
the banana river

610  
00:28:18,070 --> 00:28:16,000  
or we would have had no story to share

611  
00:28:30,149 --> 00:28:18,080  
this morning

612  
00:28:35,350 --> 00:28:32,470  
thanks mark i'm going to hire him to be

613  
00:28:37,430 --> 00:28:35,360

my pr agent here

614

00:28:39,350 --> 00:28:37,440

neil armstrong was a

615

00:28:42,549 --> 00:28:39,360

close friend

616

00:28:46,230 --> 00:28:42,559

and an icon that i think represented

617

00:28:51,590 --> 00:28:49,669

i first met neil 52 years ago

618

00:28:54,310 --> 00:28:51,600

we were the second group

619

00:28:57,110 --> 00:28:54,320

of nine astronauts that met secretly

620

00:29:01,909 --> 00:28:57,120

under the name of max peck

621

00:29:03,990 --> 00:29:01,919

at the rice hotel in houston in 1962.

622

00:29:07,750 --> 00:29:04,000

now when the rest of us discovered that

623

00:29:09,430 --> 00:29:07,760

neil was already a nasa employee

624

00:29:11,669 --> 00:29:09,440

we knew there was going to be tough

625

00:29:13,110 --> 00:29:11,679

competition ahead

626  
00:29:15,110 --> 00:29:13,120  
but

627  
00:29:17,750 --> 00:29:15,120  
neil was a team player

628  
00:29:20,149 --> 00:29:17,760  
and over the years his engineering

629  
00:29:21,830 --> 00:29:20,159  
expertise contributed much

630  
00:29:24,389 --> 00:29:21,840  
to the success

631  
00:29:26,389 --> 00:29:24,399  
of our space program

632  
00:29:29,510 --> 00:29:26,399  
neil and i spent a week together in

633  
00:29:32,070 --> 00:29:29,520  
pensacola learned to fly helicopters

634  
00:29:34,310 --> 00:29:32,080  
i suspected that he had some previous

635  
00:29:35,909 --> 00:29:34,320  
experience and he only kind of laughed

636  
00:29:39,190 --> 00:29:35,919  
when it took me some time to figure out

637  
00:29:41,750 --> 00:29:39,200  
how to control that machine

638  
00:29:43,430 --> 00:29:41,760

on our way home

639

00:29:44,710 --> 00:29:43,440

we learned that president kennedy was

640

00:29:47,269 --> 00:29:44,720

killed

641

00:29:51,110 --> 00:29:47,279

and we wondered at that time

642

00:29:53,269 --> 00:29:51,120

what that would do to our program

643

00:29:54,950 --> 00:29:53,279

i was one of the capsule communicators

644

00:29:57,669 --> 00:29:54,960

when neil and dave scott sailed

645

00:29:59,190 --> 00:29:57,679

peacefully out of radio range on apollo

646

00:30:02,870 --> 00:29:59,200

8

647

00:30:04,950 --> 00:30:02,880

only to return in deep trouble

648

00:30:07,430 --> 00:30:04,960

and i was assigned to neil's apollo 11

649

00:30:08,710 --> 00:30:07,440

flight until i replaced mike collins on

650

00:30:10,789 --> 00:30:08,720

apollo 8

651  
00:30:13,430 --> 00:30:10,799  
and then i became neil's backup

652  
00:30:17,669 --> 00:30:16,149  
in the later years our association

653  
00:30:20,710 --> 00:30:17,679  
grew closer

654  
00:30:24,470 --> 00:30:20,720  
when neal and gene cernan and i visited

655  
00:30:27,029 --> 00:30:24,480  
the troops in iraq and afghanistan

656  
00:30:29,350 --> 00:30:27,039  
and he didn't hesitate to speak up

657  
00:30:32,389 --> 00:30:29,360  
when he felt the space program was

658  
00:30:35,269 --> 00:30:32,399  
headed in the wrong direction

659  
00:30:37,029 --> 00:30:35,279  
neal never capitalized on a celebrity

660  
00:30:38,710 --> 00:30:37,039  
he always felt

661  
00:30:41,269 --> 00:30:38,720  
that he was part of the team of

662  
00:30:42,470 --> 00:30:41,279  
thousands of people working together

663  
00:30:45,029 --> 00:30:42,480

to honor

664

00:30:46,950 --> 00:30:45,039

president kennedy's commitment

665

00:30:48,389 --> 00:30:46,960

so i also think it's

666

00:30:50,230 --> 00:30:48,399

very fitting

667

00:30:53,669 --> 00:30:50,240

that this operations and checkout

668

00:31:09,909 --> 00:30:53,679

building be named in the honor of neil

669

00:31:09,919 --> 00:31:13,590

just hold on

670

00:31:18,710 --> 00:31:15,990

you're gonna do it

671

00:31:21,190 --> 00:31:18,720

that was my job to introduce

672

00:31:23,110 --> 00:31:21,200

mr buzz aldrin who he and i flew

673

00:31:24,950 --> 00:31:23,120

together on germany 12

674

00:31:27,830 --> 00:31:24,960

and was very comfortable of course and

675

00:31:40,070 --> 00:31:27,840

everybody knows him on apollo 11. buzz

676  
00:31:44,070 --> 00:31:42,389  
my first memory

677  
00:31:47,509 --> 00:31:44,080  
of neil

678  
00:31:50,549 --> 00:31:47,519  
was shortly after i

679  
00:31:51,669 --> 00:31:50,559  
moved down to houston and i was visiting

680  
00:31:54,149 --> 00:31:51,679  
my uh

681  
00:31:56,230 --> 00:31:54,159  
good friend from west point ed white

682  
00:31:59,590 --> 00:31:56,240  
over at his house

683  
00:32:02,710 --> 00:31:59,600  
which was right next door to niels

684  
00:32:04,470 --> 00:32:02,720  
and and i saw this guy roller skating

685  
00:32:07,669 --> 00:32:04,480  
around

686  
00:32:12,549 --> 00:32:07,679  
in the driveway and i said who's that

687  
00:32:20,470 --> 00:32:15,590  
you can never tell what neil is going to

688  
00:32:25,029 --> 00:32:20,480

do he's very surprising he's right there

689

00:32:31,509 --> 00:32:29,509

he and i worked together so closely on

690

00:32:35,430 --> 00:32:31,519

the backup crew

691

00:32:41,029 --> 00:32:38,230

and in

692

00:32:42,630 --> 00:32:41,039

some ways i was backing up

693

00:32:44,789 --> 00:32:42,640

jim

694

00:32:47,509 --> 00:32:44,799

on apollo 8 whether

695

00:32:48,789 --> 00:32:47,519

he remembered it or not

696

00:32:51,190 --> 00:32:48,799

of course

697

00:32:54,389 --> 00:32:51,200

he had

698

00:32:58,950 --> 00:32:54,399

put me through the paces on

699

00:32:58,960 --> 00:33:02,710

it was

700

00:33:06,870 --> 00:33:04,870

a great

701  
00:33:10,630 --> 00:33:06,880  
pleasure for

702  
00:33:11,990 --> 00:33:10,640  
me to learn many years after

703  
00:33:13,909 --> 00:33:12,000  
that

704  
00:33:16,470 --> 00:33:13,919  
the commander of

705  
00:33:17,509 --> 00:33:16,480  
apollo 8 had been offered

706  
00:33:18,950 --> 00:33:17,519  
the

707  
00:33:20,549 --> 00:33:18,960  
commander

708  
00:33:24,789 --> 00:33:20,559  
position on

709  
00:33:27,029 --> 00:33:24,799  
apollo 8 apollo 11 the first landing

710  
00:33:32,870 --> 00:33:27,039  
he turned it down

711  
00:33:32,880 --> 00:33:35,909  
i don't think

712  
00:33:42,549 --> 00:33:38,870  
bill anders and

713  
00:33:46,149 --> 00:33:42,559

jim really appreciated that

714

00:33:49,430 --> 00:33:46,159

it was only recently that i learned that

715

00:33:52,950 --> 00:33:49,440

apollo 11 probably was not

716

00:33:55,990 --> 00:33:52,960

going to be the first landing the lem 5

717

00:33:56,789 --> 00:33:56,000

that we flew was overweight

718

00:33:59,430 --> 00:33:56,799

and

719

00:34:01,190 --> 00:33:59,440

in the 6 70s

720

00:34:08,230 --> 00:34:01,200

and

721

00:34:11,669 --> 00:34:08,240

mid-october

722

00:34:13,349 --> 00:34:11,679

of 69 and lem 6

723

00:34:14,950 --> 00:34:13,359

was going to do it and the cruise

724

00:34:17,030 --> 00:34:14,960

probably would have

725

00:34:19,030 --> 00:34:17,040

ended up the same and it would have been

726

00:34:20,710 --> 00:34:19,040

pete conrad

727

00:34:23,510 --> 00:34:20,720

instead of neil

728

00:34:28,069 --> 00:34:25,750

i've been known to have been in the

729

00:34:32,470 --> 00:34:28,079

right place

730

00:34:35,270 --> 00:34:33,829

and having

731

00:34:38,550 --> 00:34:35,280

neil

732

00:34:40,470 --> 00:34:38,560

after apollo 8 specifically

733

00:34:42,149 --> 00:34:40,480

when questioned

734

00:34:45,510 --> 00:34:42,159

asked

735

00:34:48,710 --> 00:34:45,520

if he wanted me to go with him

736

00:34:51,030 --> 00:34:48,720

and he said yes and i will be ever ever

737

00:34:54,389 --> 00:34:51,040

grateful

738

00:34:55,990 --> 00:34:54,399

i didn't know much about test pilot

739

00:34:58,950 --> 00:34:56,000

training because i hadn't been through a

740

00:35:00,950 --> 00:34:58,960

test pilot training before

741

00:35:03,430 --> 00:35:00,960

i was selected

742

00:35:05,589 --> 00:35:03,440

but then i commanded the test pilot

743

00:35:08,470 --> 00:35:05,599

school afterward not exactly what i

744

00:35:11,670 --> 00:35:08,480

wanted but i learned what test pilots

745

00:35:13,990 --> 00:35:11,680

were all about

746

00:35:17,990 --> 00:35:14,000

and that man

747

00:35:21,510 --> 00:35:18,000

without a doubt was one of the best

748

00:35:22,550 --> 00:35:21,520

certainly the best test pilot i feel

749

00:35:24,310 --> 00:35:22,560

that was

750

00:35:27,589 --> 00:35:24,320

selected for

751  
00:35:28,870 --> 00:35:27,599  
the nasa program

752  
00:35:31,030 --> 00:35:28,880  
i always

753  
00:35:33,670 --> 00:35:31,040  
i hate to always point things that are

754  
00:35:39,750 --> 00:35:33,680  
wrong but in your program it says

755  
00:35:41,510 --> 00:35:39,760  
my name is edwin quote buzz aldrin jr

756  
00:35:47,109 --> 00:35:41,520  
in 1903

757  
00:35:50,470 --> 00:35:48,470  
and i've been

758  
00:35:54,550 --> 00:35:50,480  
thinking of

759  
00:35:54,560 --> 00:35:58,470  
light year

760  
00:36:02,870 --> 00:36:00,870  
the guy

761  
00:36:06,950 --> 00:36:02,880  
who

762  
00:36:09,030 --> 00:36:06,960  
brought us there and brought us back

763  
00:36:22,390 --> 00:36:09,040

i'm very pleased to

764

00:36:26,950 --> 00:36:24,230

thank thank you

765

00:36:29,270 --> 00:36:26,960

charlie bolden and bob cabana

766

00:36:30,550 --> 00:36:29,280

i wish i could have snuck aboard uh one

767

00:36:32,870 --> 00:36:30,560

of your

768

00:36:36,550 --> 00:36:32,880

shuttle flights but all i could do was

769

00:36:38,069 --> 00:36:36,560

watch and admire the majesty of that

770

00:36:40,230 --> 00:36:38,079

great machine

771

00:36:42,310 --> 00:36:40,240

and the knowledge and the dedication

772

00:36:44,390 --> 00:36:42,320

with which you folks here

773

00:36:48,950 --> 00:36:44,400

prepared it for flight

774

00:36:55,990 --> 00:36:52,310

thank all of you for working here i uh

775

00:36:57,589 --> 00:36:56,000

i see a few old friends out there

776

00:37:00,710 --> 00:36:57,599

and uh

777

00:37:04,710 --> 00:37:00,720

if i know you you must really be old

778

00:37:10,790 --> 00:37:09,270

janet not you ever young

779

00:37:13,030 --> 00:37:10,800

also thank you

780

00:37:15,030 --> 00:37:13,040

for putting me last in this sequence of

781

00:37:17,589 --> 00:37:15,040

speakers

782

00:37:20,870 --> 00:37:17,599

not that i would ever make fun

783

00:37:22,550 --> 00:37:20,880

of jim or buzz but if i should slip

784

00:37:25,670 --> 00:37:22,560

they'll have no chance

785

00:37:28,390 --> 00:37:25,680

for rebuttal today

786

00:37:31,510 --> 00:37:28,400

you know lovell and aldr and i

787

00:37:32,950 --> 00:37:31,520

i always remember them as the gemini 12

788

00:37:35,510 --> 00:37:32,960

crew

789

00:37:38,550 --> 00:37:35,520

the capstone of that little gem of a

790

00:37:43,349 --> 00:37:38,560

program that you guys ran out on uh pad

791

00:37:47,910 --> 00:37:45,829

germany the successful bridge between

792

00:37:52,310 --> 00:37:47,920

mercury and apollo

793

00:37:54,470 --> 00:37:52,320

ah yes and jim and buzz germany 12 what

794

00:37:56,470 --> 00:37:54,480

memories

795

00:37:59,750 --> 00:37:56,480

i can't remember whether either of them

796

00:38:01,109 --> 00:37:59,760

ever went on to apollo

797

00:38:05,190 --> 00:38:01,119

but

798

00:38:09,670 --> 00:38:07,750

jim served his

799

00:38:16,470 --> 00:38:09,680

back up on the

800

00:38:34,550 --> 00:38:20,390

and

801  
00:38:37,109 --> 00:38:34,560  
he wants everyone in the world to get on

802  
00:38:39,190 --> 00:38:37,119  
the internet and explain to him

803  
00:38:40,230 --> 00:38:39,200  
what happened that day

804  
00:38:44,390 --> 00:38:40,240  
i've

805  
00:38:45,510 --> 00:38:44,400  
no luck i can't remember where i was

806  
00:38:47,910 --> 00:38:45,520  
that day

807  
00:38:53,430 --> 00:38:51,190  
but neil in the uh

808  
00:38:55,030 --> 00:38:53,440  
in the early 60s i was

809  
00:38:57,670 --> 00:38:55,040  
in the air force

810  
00:38:59,030 --> 00:38:57,680  
assigned to fighter test out at

811  
00:39:01,030 --> 00:38:59,040  
edwards

812  
00:39:03,430 --> 00:39:01,040  
while neil was at the other end of the

813  
00:39:06,790 --> 00:39:03,440

flight line in what was then called the

814

00:39:08,390 --> 00:39:06,800

nasa flight research center

815

00:39:09,990 --> 00:39:08,400

now known as the

816

00:39:11,829 --> 00:39:10,000

guess what

817

00:39:14,630 --> 00:39:11,839

uh

818

00:39:16,150 --> 00:39:14,640

neil was one of the x-15 pilots a small

819

00:39:18,390 --> 00:39:16,160

elite group which

820

00:39:21,589 --> 00:39:18,400

flew the rocket ship to

821

00:39:23,829 --> 00:39:21,599

mach 5 or 6 and several hundred

822

00:39:25,910 --> 00:39:23,839

thousand feet

823

00:39:28,790 --> 00:39:25,920

even in this tight group i thought neal

824

00:39:30,630 --> 00:39:28,800

stood out he had the reputation

825

00:39:33,030 --> 00:39:30,640

of being the one

826

00:39:34,470 --> 00:39:33,040

with the deepest and best understanding

827

00:39:35,829 --> 00:39:34,480

of that machine

828

00:39:39,270 --> 00:39:35,839

its design

829

00:39:43,750 --> 00:39:39,280

and how it should be tested

830

00:39:45,829 --> 00:39:43,760

as a kid neil built model airplanes

831

00:39:48,870 --> 00:39:45,839

like a lot of us did

832

00:39:51,589 --> 00:39:48,880

but he took it a step further

833

00:39:53,750 --> 00:39:51,599

and built a wind tunnel

834

00:39:55,430 --> 00:39:53,760

a wind tunnel to measure and improve his

835

00:39:58,790 --> 00:39:55,440

designs he later

836

00:40:02,069 --> 00:39:58,800

applied that powerful combination

837

00:40:05,349 --> 00:40:02,079

of curiosity and intelligence to his

838

00:40:07,910 --> 00:40:05,359

work as an experimental test pilot

839

00:40:09,109 --> 00:40:07,920

flying new jet fighters

840

00:40:12,550 --> 00:40:09,119

gemini

841

00:40:14,230 --> 00:40:12,560

the lltv you remember the lunar landing

842

00:40:17,750 --> 00:40:14,240

test vehicle

843

00:40:23,349 --> 00:40:20,230

i think we all remember neil's one small

844

00:40:27,589 --> 00:40:25,510

but i don't think that really explains

845

00:40:30,470 --> 00:40:27,599

the man sure he um

846

00:40:33,829 --> 00:40:30,480

a few model airplanes but he also built

847

00:40:37,910 --> 00:40:33,839

a wind tunnel how many kids do that

848

00:40:41,750 --> 00:40:37,920

he he took the process one step further

849

00:40:45,030 --> 00:40:41,760

again that powerful powerful combination

850

00:40:47,030 --> 00:40:45,040

of curiosity and intelligence

851  
00:40:49,750 --> 00:40:47,040  
propelled him to the top of his

852  
00:40:55,670 --> 00:40:53,030  
over and over again he took it one step

853  
00:40:57,750 --> 00:40:55,680  
further and that eventually brought him

854  
00:40:59,910 --> 00:40:57,760  
to the last rung on the ladder of the

855  
00:41:02,390 --> 00:40:59,920  
apollo 11 limb

856  
00:41:03,910 --> 00:41:02,400  
okay if you prefer call it one small

857  
00:41:07,430 --> 00:41:03,920  
step but add

858  
00:41:09,030 --> 00:41:07,440  
one step further because that was neil's

859  
00:41:10,069 --> 00:41:09,040  
way

860  
00:41:14,630 --> 00:41:10,079  
if

861  
00:41:16,950 --> 00:41:14,640  
would enjoy

862  
00:41:19,670 --> 00:41:16,960  
prowling around this building every

863  
00:41:22,790 --> 00:41:19,680

every nook and cranny

864

00:41:25,910 --> 00:41:22,800

more than anyone else i have known i

865

00:41:28,470 --> 00:41:25,920

felt he had an intuitive grasp of flight

866

00:41:31,190 --> 00:41:28,480

machinery and its complexity

867

00:41:32,950 --> 00:41:31,200

and of the intricate knowledge required

868

00:41:36,870 --> 00:41:32,960

by you

869

00:41:49,510 --> 00:41:36,880

in the jobs that you perform here daily

870

00:41:55,190 --> 00:41:52,470

he probably liked hangers

871

00:41:57,829 --> 00:41:55,200

better than office buildings but he was

872

00:41:59,670 --> 00:41:57,839

certainly good in either venue

873

00:42:02,150 --> 00:41:59,680

he wasn't out on the rubber chicken

874

00:42:03,270 --> 00:42:02,160

circuit as frequently as some wanted him

875

00:42:04,950 --> 00:42:03,280

to be

876

00:42:07,030 --> 00:42:04,960

but get him airborne in one of your

877

00:42:08,630 --> 00:42:07,040

machines and he was in a class by

878

00:42:11,670 --> 00:42:08,640

himself

879

00:42:14,309 --> 00:42:11,680

i very much like the fact that his name

880

00:42:16,870 --> 00:42:14,319

will be on this building

881

00:42:19,349 --> 00:42:16,880

he would not have sought this honor that

882

00:42:22,950 --> 00:42:19,359

was not his style but i think he would

883

00:42:28,630 --> 00:42:25,670

so closely associated with this the

884

00:42:30,950 --> 00:42:28,640

heart and the soul of the space business

885

00:42:31,910 --> 00:42:30,960

on neal's behalf

886

00:42:53,750 --> 00:42:31,920

thank you

887

00:42:56,230 --> 00:42:53,760

jim buzz mike

888

00:42:58,870 --> 00:42:56,240

rick and mark for being part of this i i

889

00:43:00,550 --> 00:42:58,880

really appreciate you coming out uh it

890

00:43:02,710 --> 00:43:00,560

is a special place it's a special

891

00:43:04,309 --> 00:43:02,720

building and i uh i can't think of

892

00:43:06,630 --> 00:43:04,319

anybody better

893

00:43:09,670 --> 00:43:06,640

whose name could be on it than than neil

894

00:43:11,910 --> 00:43:09,680

armstrong he was quite an individual and

895

00:43:15,030 --> 00:43:11,920

i just i'm really pleased to be a part

896

00:43:17,589 --> 00:43:15,040

of this today this concludes our event