

MS



Jeff Hoffman
Hall of Fame Astronaut



HD
High Definition

1
00:00:16,870 --> 00:00:14,789
ladies and gentlemen thank you for

2
00:00:19,189 --> 00:00:16,880
joining us for the u.s astronaut hall of

3
00:00:21,189 --> 00:00:19,199
fame induction ceremony honoring our

4
00:00:23,109 --> 00:00:21,199
nation's space heroes

5
00:00:25,830 --> 00:00:23,119
please rise for the presentation of

6
00:00:28,150 --> 00:00:25,840
colors by boy scout troop 369 from

7
00:00:30,310 --> 00:00:28,160
merritt island florida followed by the

8
00:00:52,150 --> 00:00:30,320
national anthem performed by jennifer

9
00:00:52,160 --> 00:01:03,349
each

10
00:01:03,359 --> 00:01:21,590
me

11
00:01:30,390 --> 00:01:25,670
oh say can you see

12
00:01:31,630 --> 00:01:30,400
by the dawn's early light

13
00:01:33,710 --> 00:01:31,640

what so

14

00:01:37,350 --> 00:01:33,720

proudly we

15

00:01:39,510 --> 00:01:37,360

hailed at the twilight's

16

00:01:44,550 --> 00:01:39,520

last gleaming

17

00:01:46,590 --> 00:01:44,560

whose broad stripes and bright stars

18

00:01:49,990 --> 00:01:46,600

through the

19

00:01:51,469 --> 00:01:50,000

perilous fight

20

00:01:54,789 --> 00:01:51,479

or the

21

00:01:56,429 --> 00:01:54,799

ramparts we watched

22

00:01:59,749 --> 00:01:56,439

were so

23

00:02:04,469 --> 00:01:59,759

gallantly streaming

24

00:02:05,870 --> 00:02:04,479

and the rockets red glare

25

00:02:09,190 --> 00:02:05,880

the bombs

26
00:02:11,190 --> 00:02:09,200
bursting air

27
00:02:14,070 --> 00:02:11,200
gave proof

28
00:02:19,350 --> 00:02:14,080
through the night

29
00:02:25,470 --> 00:02:19,360
that our flag was still there

30
00:02:25,480 --> 00:02:31,030
banner yet wave

31
00:02:36,790 --> 00:02:32,350
or the

32
00:02:38,190 --> 00:02:36,800
land of the free

33
00:02:41,910 --> 00:02:38,200
and the

34
00:02:54,949 --> 00:02:41,920
home of the

35
00:02:59,350 --> 00:02:57,110
ladies and gentlemen please welcome the

36
00:03:14,229 --> 00:02:59,360
chief operating officer of kennedy space

37
00:03:18,149 --> 00:03:16,470
good afternoon everyone welcome jennifer

38
00:03:20,470 --> 00:03:18,159

thank you very much for that wonderful

39

00:03:22,470 --> 00:03:20,480
rendition of our national anthem

40

00:03:24,470 --> 00:03:22,480
on behalf of delaware north company's

41

00:03:25,670 --> 00:03:24,480
employees worldwide and certainly here

42

00:03:27,990 --> 00:03:25,680
all of our crew members here at the

43

00:03:29,430 --> 00:03:28,000
kennedy space center visitor complex i

44

00:03:32,229 --> 00:03:29,440
would like to welcome all of you to

45

00:03:34,149 --> 00:03:32,239
today's induction ceremony celebrating

46

00:03:36,630 --> 00:03:34,159
our 10th class of space shuttle

47

00:03:38,149 --> 00:03:36,640
astronauts into the u.s astronaut hall

48

00:03:39,589 --> 00:03:38,159
of fame

49

00:03:41,110 --> 00:03:39,599
it is always a privilege to host the

50

00:03:43,110 --> 00:03:41,120
induction ceremony

51
00:03:45,589 --> 00:03:43,120
and be part of this momentous occasion

52
00:03:47,830 --> 00:03:45,599
that honors leaders in space flight

53
00:03:49,430 --> 00:03:47,840
and community who are truly deserving of

54
00:03:51,910 --> 00:03:49,440
both our recognition

55
00:03:54,550 --> 00:03:51,920
and our respect

56
00:03:56,309 --> 00:03:54,560
there is no better place on this earth

57
00:03:57,910 --> 00:03:56,319
to host this celebration than at the

58
00:03:59,750 --> 00:03:57,920
kennedy space center

59
00:04:01,830 --> 00:03:59,760
a truly special place

60
00:04:03,910 --> 00:04:01,840
where you can witness history

61
00:04:05,350 --> 00:04:03,920
and history in the making

62
00:04:06,710 --> 00:04:05,360
as you might have seen this afternoon

63
00:04:09,350 --> 00:04:06,720

just before the induction with a launch

64

00:04:12,309 --> 00:04:09,360

of an atlas v uh susan nice job pulling

65

00:04:14,869 --> 00:04:12,319

that off on time today

66

00:04:17,270 --> 00:04:14,879

as we prepare for the upcoming launches

67

00:04:18,550 --> 00:04:17,280

of space shuttle's endeavor and atlantis

68

00:04:20,789 --> 00:04:18,560

on their final missions to the

69

00:04:21,590 --> 00:04:20,799

international space station we reflect

70

00:04:23,270 --> 00:04:21,600

back

71

00:04:24,230 --> 00:04:23,280

on more than 30 years of space shuttle

72

00:04:26,070 --> 00:04:24,240

program

73

00:04:29,909 --> 00:04:26,080

and the legacy that these astronauts

74

00:04:32,710 --> 00:04:29,919

have left on u.s space exploration

75

00:04:34,390 --> 00:04:32,720

the kennedy space center complex

76

00:04:36,790 --> 00:04:34,400

is honored that atlantis will be coming

77

00:04:38,230 --> 00:04:36,800

home and will stay here to be honored

78

00:04:39,830 --> 00:04:38,240

for years to come

79

00:04:41,590 --> 00:04:39,840

we look forward

80

00:04:47,670 --> 00:04:41,600

to sharing the legacy of the astronauts

81

00:04:51,189 --> 00:04:49,350

we look forward to sharing the legacy of

82

00:04:53,030 --> 00:04:51,199

these astronauts

83

00:04:54,629 --> 00:04:53,040

the story of the space shuttle

84

00:04:55,990 --> 00:04:54,639

and most importantly the thousands who

85

00:04:58,710 --> 00:04:56,000

have worked tirelessly to make this

86

00:05:00,390 --> 00:04:58,720

remarkable program successful

87

00:05:01,749 --> 00:05:00,400

i would like to take just a moment to

88

00:05:04,070 --> 00:05:01,759

acknowledge a few people in audience

89

00:05:05,270 --> 00:05:04,080

with us today

90

00:05:08,550 --> 00:05:05,280

very proud to have the nasa

91

00:05:15,029 --> 00:05:08,560

administrator charles bolden

92

00:05:22,310 --> 00:05:16,469

our very own kennedy space center

93

00:05:25,990 --> 00:05:23,830

they will both join us shortly along

94

00:05:28,230 --> 00:05:26,000

with the hall of fame astronauts we also

95

00:05:30,310 --> 00:05:28,240

have astronauts john mcbride

96

00:05:33,270 --> 00:05:30,320

susan calrane

97

00:05:35,110 --> 00:05:33,280

don mcmungle and don i'm working on your

98

00:05:36,230 --> 00:05:35,120

name there who are also in the audience

99

00:05:42,230 --> 00:05:36,240

today

100

00:05:45,270 --> 00:05:43,670

i would like to recognize the really

101
00:05:47,029 --> 00:05:45,280
significant contribution to today's

102
00:05:48,070 --> 00:05:47,039
ceremony by the astronaut scholarship

103
00:05:49,590 --> 00:05:48,080
foundation

104
00:05:50,710 --> 00:05:49,600
their board of directors including

105
00:05:52,550 --> 00:05:50,720
incoming

106
00:05:53,990 --> 00:05:52,560
chairman charlie duke

107
00:05:55,830 --> 00:05:54,000
and their executive director lynn

108
00:06:01,670 --> 00:05:55,840
leblanc charlie lynn thank you both very

109
00:06:06,469 --> 00:06:03,670
and now it's my pleasure to welcome to

110
00:06:09,590 --> 00:06:06,479
the stage today's masters of ceremony

111
00:06:11,510 --> 00:06:09,600
he is cnn's miami correspondent

112
00:06:13,830 --> 00:06:11,520
responsible for all of cnn's coverage of

113
00:06:17,189 --> 00:06:13,840

news in florida and the caribbean

114

00:06:19,270 --> 00:06:17,199

since joining cnn in 1983 he has covered

115

00:06:21,110 --> 00:06:19,280

every major hurricane to hit florida and

116

00:06:22,870 --> 00:06:21,120

the gulf coast

117

00:06:24,390 --> 00:06:22,880

he is also cnn's principal

118

00:06:27,110 --> 00:06:24,400

correspondents for the coverage of the

119

00:06:30,070 --> 00:06:27,120

u.s space program having covered events

120

00:06:33,189 --> 00:06:30,080

such as john glenn's 1998 return to

121

00:06:36,309 --> 00:06:33,199

space flight the mars pathfinder mission

122

00:06:38,390 --> 00:06:36,319

and the 2005 return to flight mission

123

00:06:39,590 --> 00:06:38,400

along with numerous other space shuttle

124

00:06:41,830 --> 00:06:39,600

launches

125

00:06:43,670 --> 00:06:41,840

he has won two emmy awards and has been

126
00:06:45,909 --> 00:06:43,680
honored numerous times for his reporting

127
00:06:47,510 --> 00:06:45,919
contributions ladies and gentlemen

128
00:06:59,110 --> 00:06:47,520
please join me in welcoming to the stage

129
00:07:02,710 --> 00:07:00,629
thank you bill

130
00:07:04,629 --> 00:07:02,720
and i really ladies and gentlemen i

131
00:07:07,990 --> 00:07:04,639
we really owe

132
00:07:10,870 --> 00:07:08,000
bill and his team here uh a resounding

133
00:07:13,589 --> 00:07:10,880
applause for the work that they did in

134
00:07:15,430 --> 00:07:13,599
order to uh bring atlantis here and in

135
00:07:16,790 --> 00:07:15,440
just a couple of years where is it

136
00:07:18,790 --> 00:07:16,800
where's the building going to be that

137
00:07:21,909 --> 00:07:18,800
way right i'm turned around

138
00:07:23,909 --> 00:07:21,919

and uh it'll be a spectacular facility

139

00:07:26,870 --> 00:07:23,919

and i know all of you will want to be

140

00:07:28,790 --> 00:07:26,880

here uh to see atlantis when it is on

141

00:07:35,430 --> 00:07:28,800

permanent display here

142

00:07:39,430 --> 00:07:37,029

and good afternoon ladies and gentlemen

143

00:07:41,350 --> 00:07:39,440

it is my pleasure to be here once again

144

00:07:45,029 --> 00:07:41,360

for the united states astronaut hall of

145

00:07:47,749 --> 00:07:45,039

fame induction ceremony it is truly an

146

00:07:49,909 --> 00:07:47,759

honor to be here and surrounded by so

147

00:07:51,749 --> 00:07:49,919

many of the great space heroes

148

00:07:53,909 --> 00:07:51,759

uh again as bill mentioned only two

149

00:07:54,790 --> 00:07:53,919

flights left and i recall not that long

150

00:07:56,550 --> 00:07:54,800

ago

151

00:07:58,629 --> 00:07:56,560

sitting in houston and

152

00:08:00,629 --> 00:07:58,639

interviewing alvin drew who was a

153

00:08:03,110 --> 00:08:00,639

mission specialist on the final flight

154

00:08:05,430 --> 00:08:03,120

of the space shuttle discovery and we're

155

00:08:08,629 --> 00:08:05,440

talking and and alvin says he said you

156

00:08:10,070 --> 00:08:08,639

know a hundred years from now conspiracy

157

00:08:12,790 --> 00:08:10,080

theorists are going to be out there and

158

00:08:14,790 --> 00:08:12,800

they're going to say there's no way they

159

00:08:15,589 --> 00:08:14,800

flew a space shuttle

160

00:08:33,350 --> 00:08:15,599

a

161

00:08:34,630 --> 00:08:33,360

it just

162

00:08:36,469 --> 00:08:34,640

is impossible

163

00:08:37,990 --> 00:08:36,479

and i talked to steve lindsey out there

164

00:08:39,990 --> 00:08:38,000

as well who was the commander for the

165

00:08:41,750 --> 00:08:40,000

discovery flight and we were talking

166

00:08:44,630 --> 00:08:41,760

about you know how do you feel about all

167

00:08:48,310 --> 00:08:44,640

he said you know this is really a time

168

00:08:51,190 --> 00:08:48,320

not to be sad but a time to celebrate

169

00:08:53,750 --> 00:08:51,200

the wonderful accomplishments of 30

170

00:08:54,710 --> 00:08:53,760

years of flying space shuttles

171

00:08:57,110 --> 00:08:54,720

and when you celebrate the

172

00:08:58,710 --> 00:08:57,120

accomplishments you're celebrating the

173

00:09:00,550 --> 00:08:58,720

engineers

174

00:09:02,710 --> 00:09:00,560

and the scientists

175

00:09:04,710 --> 00:09:02,720

and the technicians

176

00:09:07,269 --> 00:09:04,720

and of course the astronauts

177

00:09:10,070 --> 00:09:07,279

who flew these marvelous

178

00:09:12,630 --> 00:09:10,080

lifting bodies

179

00:09:15,030 --> 00:09:12,640

and it is because

180

00:09:17,590 --> 00:09:15,040

on their shoulders the future is going

181

00:09:18,630 --> 00:09:17,600

to be built the united states space

182

00:09:21,350 --> 00:09:18,640

program

183

00:09:23,590 --> 00:09:21,360

and now it is my privilege to introduce

184

00:09:28,630 --> 00:09:23,600

to you the attending members of the

185

00:09:32,470 --> 00:09:30,710

a founder of the astronaut scholarship

186

00:09:34,710 --> 00:09:32,480

foundation

187

00:09:36,550 --> 00:09:34,720

he is one of america's original

188

00:09:38,070 --> 00:09:36,560

seven astronauts

189

00:09:41,509 --> 00:09:38,080

he has the distinction of being the

190

00:09:47,269 --> 00:09:41,519

first human to conduct missions in both

191

00:09:51,590 --> 00:09:49,269

he flew the second american orbital

192

00:09:55,990 --> 00:09:51,600

flight piloting his spacecraft through

193

00:10:01,750 --> 00:09:59,350

later he participated in the navy's man

194

00:10:03,990 --> 00:10:01,760

in the sea project

195

00:10:07,030 --> 00:10:04,000

as an equinox

196

00:10:19,269 --> 00:10:07,040

in the sea lab 2 program

197

00:10:25,670 --> 00:10:22,790

selected as an astronaut by nasa in 1963

198

00:10:27,829 --> 00:10:25,680

he made his first space flight as pilot

199

00:10:29,590 --> 00:10:27,839

on the three-day gemini 11 mission

200

00:10:34,150 --> 00:10:29,600

during which he left the spacecraft for

201
00:10:36,949 --> 00:10:34,160
a 44-minute spacewalk in november 1969

202
00:10:39,509 --> 00:10:36,959
he circled 60 miles above the moon while

203
00:10:43,269 --> 00:10:39,519
his apollo 12 crewmates walked on its

204
00:10:45,509 --> 00:10:43,279
surface he retired from nasa in 1972 to

205
00:10:47,670 --> 00:10:45,519
become executive vice president of the

206
00:10:48,870 --> 00:10:47,680
new orleans saints professional football

207
00:10:56,870 --> 00:10:48,880
team

208
00:11:01,910 --> 00:10:59,269
he served as lunar module pilot aboard

209
00:11:04,230 --> 00:11:01,920
the first manned mission of the apollo 7

210
00:11:06,310 --> 00:11:04,240
program he later served as chief of the

211
00:11:08,630 --> 00:11:06,320
skylab branch of the flight crew

212
00:11:11,509 --> 00:11:08,640
directorate overseeing components of the

213
00:11:13,670 --> 00:11:11,519

united states first space station today

214

00:11:15,910 --> 00:11:13,680

he shares his thoughts on space flight

215

00:11:18,790 --> 00:11:15,920

through periodic columns lectures and

216

00:11:25,829 --> 00:11:18,800

his book the all-american boys walt

217

00:11:30,069 --> 00:11:28,310

he was selected by nasa for its fifth

218

00:11:33,990 --> 00:11:30,079

class of astronauts

219

00:11:36,710 --> 00:11:34,000

in april 1966 in 1970 he was a member of

220

00:11:39,430 --> 00:11:36,720

the apollo 13 crew that struggled to

221

00:11:42,150 --> 00:11:39,440

return to earth after an oxygen tank

222

00:11:44,389 --> 00:11:42,160

explosion aborted the mission as it

223

00:11:46,630 --> 00:11:44,399

approached the moon he later commanded

224

00:11:48,310 --> 00:11:46,640

the space shuttle enterprise

225

00:11:51,110 --> 00:11:48,320

on its

226

00:11:59,190 --> 00:11:51,120

approach and landing test flights fred

227

00:12:04,310 --> 00:12:01,350

he was the sixth person to step foot on

228

00:12:06,310 --> 00:12:04,320

the moon during apollo 14 nasa's third

229

00:12:09,030 --> 00:12:06,320

moon landing he and the late alan

230

00:12:12,550 --> 00:12:09,040

shepard explored the moon's hilly

231

00:12:14,870 --> 00:12:12,560

framora region in 1971

232

00:12:17,030 --> 00:12:14,880

on the first mission devoted to lunar

233

00:12:19,750 --> 00:12:17,040

science they established the record for

234

00:12:22,230 --> 00:12:19,760

the longest foot traverse exceeding four

235

00:12:25,269 --> 00:12:22,240

kilometers he retired from nasa and

236

00:12:27,110 --> 00:12:25,279

founded the institute of noetic sciences

237

00:12:28,949 --> 00:12:27,120

in an effort to integrate scientific

238

00:12:30,790 --> 00:12:28,959

disciplines into the study of human

239

00:12:33,509 --> 00:12:30,800

consciousness

240

00:12:37,509 --> 00:12:33,519

he was a 2005 nominee for the nobel

241

00:12:43,590 --> 00:12:39,990

he served as command module pilot on the

242

00:12:45,670 --> 00:12:43,600

1971 apollo 15 moon mission during which

243

00:12:48,069 --> 00:12:45,680

he orbited the moon while his crewmates

244

00:12:49,670 --> 00:12:48,079

explored the surface on the homeward

245

00:12:52,230 --> 00:12:49,680

journey he took the farthest out

246

00:12:54,310 --> 00:12:52,240

spacewalk two hundred 000 miles from

247

00:12:57,030 --> 00:12:54,320

earth moving along handrails on the

248

00:12:58,790 --> 00:12:57,040

outside of endeavor to retrieve film

249

00:13:04,829 --> 00:12:58,800

canisters from the two moon mapping

250

00:13:10,910 --> 00:13:07,670

warden he became the tenth person to

251
00:13:14,629 --> 00:13:10,920
walk on the moon aboard apollo 16 in

252
00:13:17,190 --> 00:13:14,639
1972. during three excursions over three

253
00:13:20,470 --> 00:13:17,200
days he and fellow astronaut john young

254
00:13:23,350 --> 00:13:20,480
drove a lunar rover 16 miles and

255
00:13:26,069 --> 00:13:23,360
collected 213

256
00:13:28,310 --> 00:13:26,079
pounds of lunar rocks and soil today is

257
00:13:35,269 --> 00:13:28,320
president of charlie duke enterprises

258
00:13:41,350 --> 00:13:38,230
he worked for 59 days in orbit as a

259
00:13:43,110 --> 00:13:41,360
member of the second skylab station crew

260
00:13:46,069 --> 00:13:43,120
in 1973.

261
00:13:48,870 --> 00:13:46,079
in 1982 he commanded the third orbital

262
00:13:51,670 --> 00:13:48,880
test flight of space shuttle columbia

263
00:13:54,710 --> 00:13:51,680

the only mission to land at white sands

264

00:13:57,670 --> 00:13:54,720

new mexico he retired from nasa and the

265

00:14:03,269 --> 00:13:57,680

marine corps as a colonel in 1984

266

00:14:09,590 --> 00:14:05,750

he lived in space for 59 days aboard the

267

00:14:11,670 --> 00:14:09,600

skylab space station in 1973 during

268

00:14:14,470 --> 00:14:11,680

which he conducted three spacewalks to

269

00:14:16,949 --> 00:14:14,480

exchange film and direct a sun shield to

270

00:14:18,949 --> 00:14:16,959

cool the orbiting laboratory ten years

271

00:14:20,150 --> 00:14:18,959

later he returned to space aboard

272

00:14:22,790 --> 00:14:20,160

columbia

273

00:14:24,629 --> 00:14:22,800

on the first flight of the space lab

274

00:14:26,949 --> 00:14:24,639

laboratory currently is an adjunct

275

00:14:32,470 --> 00:14:26,959

professor at the university of alabama

276

00:14:37,350 --> 00:14:34,949

he piloted the maiden flight of the

277

00:14:39,069 --> 00:14:37,360

space shuttle program on the orbiter

278

00:14:42,150 --> 00:14:39,079

columbia in

279

00:14:43,990 --> 00:14:42,160

1981. he then commanded three additional

280

00:14:46,710 --> 00:14:44,000

shuttle missions including the first

281

00:14:49,590 --> 00:14:46,720

mission to capture repair and release a

282

00:14:51,750 --> 00:14:49,600

satellite in the early 1990s he served

283

00:14:54,069 --> 00:14:51,760

as director of nasa's kennedy space

284

00:14:56,790 --> 00:14:54,079

center and later served as president of

285

00:15:01,269 --> 00:14:56,800

thyacol aerospace group in utah bob

286

00:15:05,910 --> 00:15:03,430

he piloted the fourth and final test

287

00:15:08,310 --> 00:15:05,920

flight of space shuttle columbia before

288

00:15:12,230 --> 00:15:08,320

commanding discovery on its maiden

289

00:15:14,389 --> 00:15:12,240

voyage in 1984. his last assignment was

290

00:15:16,949 --> 00:15:14,399

the first planned and controlled mission

291

00:15:19,430 --> 00:15:16,959

by a foreign customer and the first to

292

00:15:22,230 --> 00:15:19,440

fly eight crew members he later served

293

00:15:28,949 --> 00:15:22,240

as vice president for raytheon aerospace

294

00:15:35,269 --> 00:15:32,310

he flew to space twice on missions sts-5

295

00:15:37,430 --> 00:15:35,279

and sts-51a his rookie flight the

296

00:15:39,910 --> 00:15:37,440

shuttle's first orbiting mission

297

00:15:42,550 --> 00:15:39,920

deployed two satellites his second

298

00:15:43,670 --> 00:15:42,560

mission featured the world's first space

299

00:15:46,550 --> 00:15:43,680

salvage

300

00:15:48,870 --> 00:15:46,560

using a jet backpack he and his crewmate

301
00:15:52,230 --> 00:15:48,880
dale gardner captured two malfunctioning

302
00:15:54,389 --> 00:15:52,240
satellites after leaving nasa in 1985 he

303
00:15:56,389 --> 00:15:54,399
served as chief executive officer of

304
00:15:59,110 --> 00:15:56,399
space industries international and later

305
00:16:06,870 --> 00:15:59,120
was chairman of viridian corp until he

306
00:16:11,110 --> 00:16:08,949
a three-flight veteran he and fellow

307
00:16:13,910 --> 00:16:11,120
crew member bob crippen were the first

308
00:16:17,509 --> 00:16:13,920
to fly an orbiter in close proximity to

309
00:16:19,030 --> 00:16:17,519
a free-flying satellite on sts-7

310
00:16:21,670 --> 00:16:19,040
he went on to command the return to

311
00:16:24,150 --> 00:16:21,680
flight mission after challenger was lost

312
00:16:26,710 --> 00:16:24,160
he left nasa in 1989 and later became

313
00:16:33,509 --> 00:16:26,720

president and ceo of axa space in

314

00:16:38,150 --> 00:16:35,670

he flew three shuttle mission he served

315

00:16:41,269 --> 00:16:38,160

as pilot of sts-51c

316

00:16:43,430 --> 00:16:41,279

and commander of sts-31 during which the

317

00:16:45,670 --> 00:16:43,440

crew successfully deployed the hubble

318

00:16:47,269 --> 00:16:45,680

space telescope he went on to command

319

00:16:49,189 --> 00:16:47,279

sts-46

320

00:16:51,670 --> 00:16:49,199

deploying the european retrievable

321

00:16:54,949 --> 00:16:51,680

carrier eureka and the italian tethered

322

00:16:57,269 --> 00:16:54,959

satellite from 1997 to 2000 he held the

323

00:16:59,749 --> 00:16:57,279

position of deputy director of nasa's

324

00:17:01,670 --> 00:16:59,759

kennedy space center recently retired as

325

00:17:04,069 --> 00:17:01,680

vice president of engineering and

326

00:17:10,710 --> 00:17:04,079

integration and chief technology officer

327

00:17:16,630 --> 00:17:13,350

he is a veteran of five shuttle missions

328

00:17:19,189 --> 00:17:16,640

and the first astronaut to log 1 000

329

00:17:21,750 --> 00:17:19,199

hours on the shuttle he made nasa's

330

00:17:24,390 --> 00:17:21,760

first unplanned spacewalk and performed

331

00:17:27,110 --> 00:17:24,400

three spacewalks during the first hubble

332

00:17:28,710 --> 00:17:27,120

space telescope rescue repair mission he

333

00:17:31,190 --> 00:17:28,720

is currently a professor at the

334

00:17:34,710 --> 00:17:31,200

massachusetts institute of technology

335

00:17:39,270 --> 00:17:36,549

his first mission aboard space shuttle

336

00:17:42,470 --> 00:17:39,280

columbia was the last to fly before the

337

00:17:44,710 --> 00:17:42,480

challenger accident in 1986. he later

338

00:17:47,750 --> 00:17:44,720

piloted space shuttle discovery on the

339

00:17:50,070 --> 00:17:47,760

five-day sts-31 mission to deploy the

340

00:17:53,190 --> 00:17:50,080

hubble space telescope he flew twice

341

00:17:55,270 --> 00:17:53,200

more into space logging more than 680

342

00:18:02,230 --> 00:17:55,280

hours in orbit today he serves as the

343

00:18:07,350 --> 00:18:04,950

he is a four-flight veteran piloting his

344

00:18:10,630 --> 00:18:07,360

first two space shuttle missions later

345

00:18:13,270 --> 00:18:10,640

he commanded sts-65 during which he and

346

00:18:15,630 --> 00:18:13,280

his crew set a record for the longest

347

00:18:19,029 --> 00:18:15,640

space shuttle mission at that time and

348

00:18:21,029 --> 00:18:19,039

sts-88 the first space station assembly

349

00:18:23,029 --> 00:18:21,039

mission he is currently the center

350

00:18:27,430 --> 00:18:23,039

director right here at nasa's kennedy

351
00:18:43,909 --> 00:18:30,870
ladies and gentlemen our hall of fame

352
00:19:01,590 --> 00:18:55,750
and

353
00:19:09,270 --> 00:19:01,600
kennedy space center director

354
00:19:11,990 --> 00:19:10,549
thanks john

355
00:19:14,070 --> 00:19:12,000
well good afternoon everybody and

356
00:19:17,430 --> 00:19:14,080
welcome to the kennedy space center for

357
00:19:18,870 --> 00:19:17,440
today's hall of fame induction ceremony

358
00:19:21,669 --> 00:19:18,880
what a great weekend this has been

359
00:19:23,830 --> 00:19:21,679
starting out last thursday with the 50th

360
00:19:26,710 --> 00:19:23,840
anniversary celebration of the first

361
00:19:28,870 --> 00:19:26,720
american to fly in space ellen shepard a

362
00:19:30,390 --> 00:19:28,880
hall of fame astronaut and the founder

363
00:19:32,630 --> 00:19:30,400

of what has become the astronaut

364

00:19:34,710 --> 00:19:32,640

scholarship foundation

365

00:19:37,190 --> 00:19:34,720

although that first flight only lasted

366

00:19:40,710 --> 00:19:37,200

15 minutes and went to an altitude of

367

00:19:42,710 --> 00:19:40,720

116 miles it opened the door to space

368

00:19:44,950 --> 00:19:42,720

for the united states and we've been

369

00:19:46,710 --> 00:19:44,960

charging ahead ever since

370

00:19:49,430 --> 00:19:46,720

today's inductees

371

00:19:52,390 --> 00:19:49,440

bo bobco and susan helms carry on that

372

00:19:54,789 --> 00:19:52,400

pioneering spirit of ellen shepard

373

00:19:57,430 --> 00:19:54,799

they have careers that span our nation's

374

00:19:59,510 --> 00:19:57,440

space program from what was the military

375

00:20:02,230 --> 00:19:59,520

orbiting laboratory program back in the

376

00:20:03,909 --> 00:20:02,240

60s to long duration space flights

377

00:20:05,750 --> 00:20:03,919

aboard the international space station

378

00:20:07,669 --> 00:20:05,760

in 2001.

379

00:20:09,830 --> 00:20:07,679

they're both extremely deserving of this

380

00:20:12,710 --> 00:20:09,840

honor and it's a real pleasure for me to

381

00:20:14,789 --> 00:20:12,720

be able to participate in it

382

00:20:16,710 --> 00:20:14,799

a few weeks ago we celebrated the 30th

383

00:20:18,070 --> 00:20:16,720

anniversary of the first flight of the

384

00:20:19,669 --> 00:20:18,080

space shuttle

385

00:20:20,950 --> 00:20:19,679

the shuttle has been a phenomenal

386

00:20:23,350 --> 00:20:20,960

vehicle

387

00:20:25,750 --> 00:20:23,360

it's enabled us to learn how to actually

388

00:20:27,909 --> 00:20:25,760

live and work in space

389

00:20:30,070 --> 00:20:27,919

and it made it possible for us to build

390

00:20:33,190 --> 00:20:30,080

the international space station that's

391

00:20:35,190 --> 00:20:33,200

been permanently manned since october of

392

00:20:37,590 --> 00:20:35,200

two thousand

393

00:20:38,630 --> 00:20:37,600

just as we transitioned from apollo to

394

00:20:41,190 --> 00:20:38,640

shuttle

395

00:20:43,430 --> 00:20:41,200

nasa and the kennedy space center are in

396

00:20:45,270 --> 00:20:43,440

a time of transition now

397

00:20:47,590 --> 00:20:45,280

as we move from shuttle

398

00:20:48,470 --> 00:20:47,600

to support a more diverse national space

399

00:20:51,590 --> 00:20:48,480

program

400

00:20:53,990 --> 00:20:51,600

that includes commercial access to space

401
00:20:56,230 --> 00:20:54,000
and a space launch system and

402
00:20:59,029 --> 00:20:56,240
multi-purpose crew vehicle that will

403
00:21:01,350 --> 00:20:59,039
once again enable us to explore beyond

404
00:21:03,750 --> 00:21:01,360
the bounds of our home planet

405
00:21:06,070 --> 00:21:03,760
space exploration is challenging

406
00:21:08,710 --> 00:21:06,080
but i know that we will be successful

407
00:21:10,789 --> 00:21:08,720
because of the outstanding team at nasa

408
00:21:13,510 --> 00:21:10,799
and here at the kennedy space center

409
00:21:14,789 --> 00:21:13,520
that every day make the impossible seem

410
00:21:17,110 --> 00:21:14,799
ordinary

411
00:21:18,789 --> 00:21:17,120
thank you so much for your support once

412
00:21:21,029 --> 00:21:18,799
again welcome to the kennedy space

413
00:21:31,350 --> 00:21:21,039

center and once again congratulations to

414

00:21:31,360 --> 00:21:34,470

thanks again bob

415

00:21:38,230 --> 00:21:36,149

now ladies and gentlemen on behalf of

416

00:21:39,909 --> 00:21:38,240

the astronaut scholarship foundation

417

00:21:42,390 --> 00:21:39,919

hall of fame astronaut and i told him

418

00:21:43,990 --> 00:21:42,400

i'd chill for him a little bit here

419

00:21:45,350 --> 00:21:44,000

he's got a book coming out called

420

00:21:47,909 --> 00:21:45,360

falling to earth

421

00:21:50,310 --> 00:21:47,919

july 26th and better than some of the

422

00:21:52,630 --> 00:21:50,320

places i've seen you fallen

423

00:21:59,350 --> 00:21:52,640

just kidding

424

00:22:02,870 --> 00:22:01,029

thanks john

425

00:22:04,950 --> 00:22:02,880

i'm not really sure i want you shilling

426
00:22:06,789 --> 00:22:04,960
for me fella

427
00:22:08,950 --> 00:22:06,799
we got to do this right away anyway let

428
00:22:11,270 --> 00:22:08,960
me add my welcome to what bob has said

429
00:22:12,789 --> 00:22:11,280
what john has said it's a really a great

430
00:22:14,789 --> 00:22:12,799
day let me tell you

431
00:22:16,149 --> 00:22:14,799
it's about 10 degrees cooler than it was

432
00:22:17,830 --> 00:22:16,159
last year and that's why and there's a

433
00:22:19,750 --> 00:22:17,840
nice little breeze blowing so this is

434
00:22:20,870 --> 00:22:19,760
really wonderful today

435
00:22:22,070 --> 00:22:20,880
um

436
00:22:24,470 --> 00:22:22,080
i want to tell you a little bit about

437
00:22:26,230 --> 00:22:24,480
the astronaut scholarship foundation

438
00:22:29,190 --> 00:22:26,240

which has been running strong for over

439

00:22:31,110 --> 00:22:29,200

25 years it was founded in 1984

440

00:22:32,789 --> 00:22:31,120

by the original seven mercury astronauts

441

00:22:35,669 --> 00:22:32,799

now al shepard was the first guy to fly

442

00:22:37,430 --> 00:22:35,679

at space he was also if i'm not mistaken

443

00:22:38,870 --> 00:22:37,440

the spark plug that started the mercury

444

00:22:41,190 --> 00:22:38,880

seven foundation

445

00:22:42,950 --> 00:22:41,200

which kind of morphed into the astronaut

446

00:22:43,909 --> 00:22:42,960

scholarship foundation as we know it

447

00:22:46,230 --> 00:22:43,919

today

448

00:22:47,669 --> 00:22:46,240

the goal of the foundation is to help

449

00:22:50,149 --> 00:22:47,679

the united states retain its world

450

00:22:52,470 --> 00:22:50,159

leadership and science and technology to

451

00:22:54,950 --> 00:22:52,480

the top college students in the country

452

00:22:56,470 --> 00:22:54,960

in the beginning the original seven guys

453

00:23:00,070 --> 00:22:56,480

gave each of the scholars they gave

454

00:23:02,630 --> 00:23:00,080

seven scholars a thousand dollars each

455

00:23:04,549 --> 00:23:02,640

uh we give a lot more than that today uh

456

00:23:06,149 --> 00:23:04,559

actually before i go on i

457

00:23:09,430 --> 00:23:06,159

we're really proud to have one of the

458

00:23:11,110 --> 00:23:09,440

original founders with us here today and

459

00:23:20,870 --> 00:23:11,120

i'd like scott carpenter to stand up and

460

00:23:25,190 --> 00:23:23,350

thanks scott thanks for all you've done

461

00:23:26,390 --> 00:23:25,200

thank you for your great support of the

462

00:23:27,190 --> 00:23:26,400

foundation

463

00:23:30,230 --> 00:23:27,200

okay

464

00:23:32,470 --> 00:23:30,240

today over 80 astronauts from every u.s

465

00:23:36,149 --> 00:23:32,480

space program have joined our effort

466

00:23:38,710 --> 00:23:36,159

the foundation now dispenses 26 10 000

467

00:23:40,950 --> 00:23:38,720

scholarships annually and has awarded

468

00:23:42,950 --> 00:23:40,960

over 3 million dollars in scholarships

469

00:23:45,350 --> 00:23:42,960

totally since its inception

470

00:23:47,909 --> 00:23:45,360

these scholarships are in fact the

471

00:23:50,310 --> 00:23:47,919

largest monetary award given in the

472

00:23:51,430 --> 00:23:50,320

united states to science and technology

473

00:23:54,470 --> 00:23:51,440

and engineering students in the

474

00:23:56,950 --> 00:23:54,480

undergraduate level based solely on

475

00:23:59,830 --> 00:23:56,960

merit

476
00:24:01,510 --> 00:23:59,840
we do not consider need we're trying to

477
00:24:03,590 --> 00:24:01,520
get the best and the brightest

478
00:24:05,190 --> 00:24:03,600
regardless of where they come from

479
00:24:09,909 --> 00:24:05,200
into the program so this is something

480
00:24:13,110 --> 00:24:11,590
not only does the foundation provide

481
00:24:14,950 --> 00:24:13,120
scholarships but we promote the

482
00:24:17,430 --> 00:24:14,960
importance of science technology and

483
00:24:19,190 --> 00:24:17,440
space exploration wherever we can one

484
00:24:21,830 --> 00:24:19,200
way we do this is by serving as a

485
00:24:25,269 --> 00:24:21,840
consultant to nasa and kennedy space

486
00:24:27,269 --> 00:24:25,279
center visitor center complex to the u.s

487
00:24:29,830 --> 00:24:27,279
astronaut hall of fame where we

488
00:24:33,190 --> 00:24:29,840

supervise the selection process of new

489

00:24:34,870 --> 00:24:33,200

astronauts for induction and we closely

490

00:24:37,269 --> 00:24:34,880

work with the

491

00:24:40,470 --> 00:24:37,279

uh hall of fame astronauts to provide

492

00:24:41,990 --> 00:24:40,480

personal artifacts for public display in

493

00:24:43,750 --> 00:24:42,000

the hall of fame

494

00:24:45,909 --> 00:24:43,760

to do so we put together an outside

495

00:24:47,590 --> 00:24:45,919

committee of hall of fame astronauts

496

00:24:50,149 --> 00:24:47,600

aerospace journalists authors and

497

00:24:52,390 --> 00:24:50,159

retired nasa and industry personnel

498

00:24:54,149 --> 00:24:52,400

many of who are with us today with those

499

00:24:57,190 --> 00:24:54,159

who are on the induction selection

500

00:24:58,950 --> 00:24:57,200

committee please stand and take a bow

501
00:25:01,990 --> 00:24:58,960
hugh jack

502
00:25:03,350 --> 00:25:02,000
i know all you guys rob

503
00:25:05,590 --> 00:25:03,360
we have a few

504
00:25:07,990 --> 00:25:05,600
uh

505
00:25:09,990 --> 00:25:08,000
un unfortunately the

506
00:25:11,669 --> 00:25:10,000
the chairman of that committee can't be

507
00:25:13,510 --> 00:25:11,679
with us today

508
00:25:15,990 --> 00:25:13,520
bob seek puts that committee together

509
00:25:17,029 --> 00:25:16,000
for us every year bob's not here is he i

510
00:25:19,430 --> 00:25:17,039
don't think

511
00:25:22,549 --> 00:25:19,440
uh because i tell you what bob's doing

512
00:25:25,269 --> 00:25:22,559
today he's up at daytona racing in the

513
00:25:27,830 --> 00:25:25,279

in the paul whitman trophy race up there

514

00:25:30,630 --> 00:25:27,840

in his little mazda which goes 140 miles

515

00:25:33,110 --> 00:25:30,640

an hour so bob's still running fast

516

00:25:34,230 --> 00:25:33,120

right he's really doing well now as most

517

00:25:35,669 --> 00:25:34,240

of you know last night we had a

518

00:25:37,830 --> 00:25:35,679

wonderful time

519

00:25:39,830 --> 00:25:37,840

uh to celebrate the new inductees it was

520

00:25:41,590 --> 00:25:39,840

a great night but the evening wouldn't

521

00:25:42,870 --> 00:25:41,600

have been possible if it weren't for the

522

00:25:44,789 --> 00:25:42,880

support of our sponsors and i want to

523

00:25:46,390 --> 00:25:44,799

list just a few of them for you i'd like

524

00:25:47,430 --> 00:25:46,400

to take a moment to thank our friends at

525

00:25:49,110 --> 00:25:47,440

nasa

526
00:25:53,269 --> 00:25:49,120
charlie bolden and bob cabana i should

527
00:25:55,430 --> 00:25:53,279
say general and colonel whatever

528
00:25:57,830 --> 00:25:55,440
thank you sir

529
00:25:59,830 --> 00:25:57,840
uh bill moore from kennedy space center

530
00:26:01,669 --> 00:25:59,840
visitor complex bill we appreciate it

531
00:26:03,590 --> 00:26:01,679
thank you very much your partnership is

532
00:26:06,390 --> 00:26:03,600
really invaluable to us i also want to

533
00:26:08,710 --> 00:26:06,400
thank our top induction sponsors

534
00:26:11,029 --> 00:26:08,720
the courtyard by marriott in cocoa beach

535
00:26:13,510 --> 00:26:11,039
the boeing company lockheed martin james

536
00:26:15,190 --> 00:26:13,520
long omega swatch group

537
00:26:17,029 --> 00:26:15,200
science applications international

538
00:26:19,350 --> 00:26:17,039

corporation and all the others who

539

00:26:21,909 --> 00:26:19,360

supported this event today

540

00:26:24,630 --> 00:26:21,919

now i guess i'm going to show for john a

541

00:26:25,750 --> 00:26:24,640

little bit let me give you hand you over

542

00:26:29,190 --> 00:26:25,760

to

543

00:26:33,750 --> 00:26:29,200

uh the great the one and only

544

00:26:35,269 --> 00:26:33,760

cnn reporter john zarrella

545

00:26:38,630 --> 00:26:35,279

he already told me i wasn't getting a

546

00:26:40,149 --> 00:26:38,640

free copy of the book either

547

00:26:41,830 --> 00:26:40,159

i have to tell you you know just for all

548

00:26:43,350 --> 00:26:41,840

of those of you out there this you're

549

00:26:44,870 --> 00:26:43,360

here today but you weren't able to be at

550

00:26:45,990 --> 00:26:44,880

obviously at the event last night many

551
00:26:49,350 --> 00:26:46,000
of you

552
00:26:51,669 --> 00:26:49,360
these these scholarship recipients

553
00:26:53,190 --> 00:26:51,679
they make this country proud you have no

554
00:26:54,470 --> 00:26:53,200
idea i have absolutely when they were

555
00:26:56,230 --> 00:26:54,480
listing off the things that they're

556
00:26:58,149 --> 00:26:56,240
doing in their research their studies

557
00:26:59,510 --> 00:26:58,159
i'm like huh

558
00:27:01,430 --> 00:26:59,520
i said oh now i know why i'm a

559
00:27:03,750 --> 00:27:01,440
journalist

560
00:27:05,909 --> 00:27:03,760
i mean they're brilliant and the future

561
00:27:07,750 --> 00:27:05,919
of our nation is in good hands with them

562
00:27:09,430 --> 00:27:07,760
let me tell you right now

563
00:27:11,830 --> 00:27:09,440

but if it weren't for the scholarship

564

00:27:14,549 --> 00:27:11,840

foundation and what they do

565

00:27:16,230 --> 00:27:14,559

a lot of what they're doing would not be

566

00:27:18,230 --> 00:27:16,240

possible so

567

00:27:20,389 --> 00:27:18,240

remember these gentlemen and everybody

568

00:27:23,269 --> 00:27:20,399

on the foundation because they do

569

00:27:26,310 --> 00:27:23,279

absolutely outstanding work

570

00:27:28,870 --> 00:27:26,320

and the time has arrived the induction

571

00:27:30,710 --> 00:27:28,880

of the 10th class of space shuttle

572

00:27:32,470 --> 00:27:30,720

astronauts into the united states

573

00:27:34,950 --> 00:27:32,480

astronaut hall of fame

574

00:27:37,190 --> 00:27:34,960

they will be introduced in the order in

575

00:27:39,990 --> 00:27:37,200

which they flew into space

576

00:27:46,149 --> 00:27:40,000

our first inductee is

577

00:27:51,350 --> 00:27:48,630

during his 19 years in the astronaut

578

00:27:53,510 --> 00:27:51,360

program colonel bobco flew on three

579

00:27:56,710 --> 00:27:53,520

space shuttle missions and logged more

580

00:27:58,710 --> 00:27:56,720

than 386 hours in space

581

00:28:00,870 --> 00:27:58,720

beau served as pilot during the first

582

00:28:03,269 --> 00:28:00,880

voyage of space shuttle challenger

583

00:28:05,269 --> 00:28:03,279

aboard sts-6 during which the crew

584

00:28:08,950 --> 00:28:05,279

conducted the first space shuttle

585

00:28:10,669 --> 00:28:08,960

spacewalks in april 1985 bose served as

586

00:28:14,070 --> 00:28:10,679

the commander of

587

00:28:15,909 --> 00:28:14,080

sts-51d after seven days in space he

588

00:28:19,669 --> 00:28:15,919

successfully landed space shuttle

589

00:28:21,430 --> 00:28:19,679

discovery in spite of a blown main

590

00:28:25,590 --> 00:28:21,440

landing gear tire

591

00:28:28,230 --> 00:28:25,600

in october 85 he flew on sts-51j

592

00:28:30,310 --> 00:28:28,240

the first flight of the shuttle atlantis

593

00:28:32,950 --> 00:28:30,320

and the second department of defense

594

00:28:34,630 --> 00:28:32,960

mission for the space shuttle program

595

00:28:37,590 --> 00:28:34,640

beau retired from nasa and the united

596

00:28:40,070 --> 00:28:37,600

states air force in 1988. currently he

597

00:28:42,389 --> 00:28:40,080

serves as president of the united states

598

00:28:45,669 --> 00:28:42,399

chapter of the association of space

599

00:28:48,950 --> 00:28:45,679

explorers now let's take a look at a few

600

00:28:55,110 --> 00:28:48,960

video highlights from his stunning

601
00:29:01,430 --> 00:28:57,590
launch commit we have a lift off all

602
00:29:05,029 --> 00:29:03,510
it's been a very rewarding experience

603
00:29:07,110 --> 00:29:05,039
roger

604
00:29:09,190 --> 00:29:07,120
turn to ask the questions that have been

605
00:29:55,350 --> 00:29:09,200
proposed by the press there

606
00:30:20,310 --> 00:29:57,190
made up and

607
00:30:25,430 --> 00:30:22,149
one

608
00:30:27,350 --> 00:30:25,440
and liftoff liftoff of atlantis a new

609
00:30:29,350 --> 00:30:27,360
orbiter joins the shuttle fleet and it

610
00:30:38,789 --> 00:30:29,360
has cleared the tower

611
00:30:38,799 --> 00:31:02,070
ladies and gentlemen astronaut

612
00:31:06,149 --> 00:31:04,070
and now to present bo bobco for

613
00:31:08,710 --> 00:31:06,159

induction into the united states hall of

614

00:31:14,310 --> 00:31:08,720

fame please welcome hall of fame

615

00:31:18,549 --> 00:31:16,230

well i am absolutely delighted and

616

00:31:21,110 --> 00:31:18,559

honored to be able to introduce my first

617

00:31:25,669 --> 00:31:21,120

mission commander and my good friend

618

00:31:27,509 --> 00:31:25,679

carol j bobco or as we all know him beau

619

00:31:30,230 --> 00:31:27,519

now you'll hear him talk in a little

620

00:31:32,230 --> 00:31:30,240

while and you may not be able to tell it

621

00:31:34,870 --> 00:31:32,240

from his accent but beau was actually

622

00:31:38,310 --> 00:31:34,880

born in new york city and so like myself

623

00:31:39,909 --> 00:31:38,320

he is a genuine apple astronaut

624

00:31:41,669 --> 00:31:39,919

i did a little research into his

625

00:31:45,269 --> 00:31:41,679

childhood in preparation for these

626

00:31:47,990 --> 00:31:45,279

remarks and i found an amazing fact

627

00:31:50,549 --> 00:31:48,000

during all of his youth his mother never

628

00:31:52,310 --> 00:31:50,559

once called him bo

629

00:31:54,389 --> 00:31:52,320

she called him carol which is a good

630

00:31:56,230 --> 00:31:54,399

polish name and

631

00:31:58,630 --> 00:31:56,240

i actually will jump ahead in time a

632

00:32:01,750 --> 00:31:58,640

little bit to tell another story about

633

00:32:03,430 --> 00:32:01,760

carol joseph bobco's polish heritage

634

00:32:06,549 --> 00:32:03,440

this was actually the first time that i

635

00:32:08,630 --> 00:32:06,559

specifically became aware of beau as a

636

00:32:12,549 --> 00:32:08,640

distinct personality in the astronaut

637

00:32:15,669 --> 00:32:12,559

office it was in october 1978

638

00:32:17,029 --> 00:32:15,679

right after carol joseph voitila was

639

00:32:19,990 --> 00:32:17,039

elected pope

640

00:32:22,470 --> 00:32:20,000

and a sign appeared on beau's office

641

00:32:24,230 --> 00:32:22,480

store proclaimed proclaiming in very

642

00:32:26,389 --> 00:32:24,240

large letters

643

00:32:28,549 --> 00:32:26,399

that from hencefor henceforth it would

644

00:32:30,870 --> 00:32:28,559

be considered a mortal sin to tell

645

00:32:32,950 --> 00:32:30,880

polish jokes

646

00:32:36,389 --> 00:32:32,960

and i hope that this story i've just

647

00:32:38,149 --> 00:32:36,399

told doesn't count as a polish joke

648

00:32:40,149 --> 00:32:38,159

and i never heard any polish jokes after

649

00:32:42,149 --> 00:32:40,159

that in the astronaut office

650

00:32:43,190 --> 00:32:42,159

well beau was fascinated by the space

651
00:32:44,710 --> 00:32:43,200
program

652
00:32:47,509 --> 00:32:44,720
and expressed the desire to be an

653
00:32:49,110 --> 00:32:47,519
astronaut from a very early age as i did

654
00:32:51,190 --> 00:32:49,120
actually although we differed in our

655
00:32:53,190 --> 00:32:51,200
attitude towards airplanes for me

656
00:32:55,350 --> 00:32:53,200
airplanes didn't go fast enough or high

657
00:32:56,389 --> 00:32:55,360
enough i just dreamt about rockets but

658
00:32:58,389 --> 00:32:56,399
for beau

659
00:33:00,389 --> 00:32:58,399
airplanes seemed like

660
00:33:01,430 --> 00:33:00,399
the best route to space

661
00:33:03,990 --> 00:33:01,440
and so

662
00:33:06,389 --> 00:33:04,000
he enrolled in and graduated in the

663
00:33:09,669 --> 00:33:06,399

first class of the then new air force

664

00:33:12,310 --> 00:33:09,679

academy in colorado springs

665

00:33:14,950 --> 00:33:12,320

a an unexpected life-altering side

666

00:33:17,669 --> 00:33:14,960

effect of this decision was his

667

00:33:20,549 --> 00:33:17,679

proximity to denver which led to his

668

00:33:23,190 --> 00:33:20,559

meeting and eventually marrying diane

669

00:33:25,750 --> 00:33:23,200

a happy marriage which is still thriving

670

00:33:28,149 --> 00:33:25,760

full of music full of love and which has

671

00:33:30,149 --> 00:33:28,159

led to two wonderful children paul and

672

00:33:35,590 --> 00:33:30,159

Michelle

673

00:33:38,549 --> 00:33:35,600

always shared his experiences with his

674

00:33:40,710 --> 00:33:38,559

whole family he wanted them to enjoy as

675

00:33:43,029 --> 00:33:40,720

much as he did some of the pleasures

676
00:33:44,630 --> 00:33:43,039
that he was having while training and

677
00:33:46,549 --> 00:33:44,640
flying

678
00:33:48,549 --> 00:33:46,559
diane knew from day one that beau

679
00:33:50,310 --> 00:33:48,559
someday wanted to fly in space and she

680
00:33:53,029 --> 00:33:50,320
supported him all the way and sure

681
00:33:55,669 --> 00:33:53,039
enough after six years of active duty in

682
00:33:58,070 --> 00:33:55,679
fighter squadrons he made his way to

683
00:33:59,830 --> 00:33:58,080
edwards and that was great timing

684
00:34:01,430 --> 00:33:59,840
because that's just when the air force

685
00:34:03,830 --> 00:34:01,440
was selecting astronauts for their

686
00:34:05,830 --> 00:34:03,840
manned orbiting laboratory program and

687
00:34:08,950 --> 00:34:05,840
beau was selected in the second group of

688
00:34:11,669 --> 00:34:08,960

mole astronauts becoming the first air

689

00:34:15,430 --> 00:34:11,679

force academy graduate to be selected as

690

00:34:18,149 --> 00:34:15,440

an astronaut but mol never flew never

691

00:34:20,629 --> 00:34:18,159

made it to orbit so beau and his mol

692

00:34:22,470 --> 00:34:20,639

cohort came to nasa at the peak of the

693

00:34:24,389 --> 00:34:22,480

apollo program

694

00:34:26,550 --> 00:34:24,399

the problem was nasa wasn't quite sure

695

00:34:28,790 --> 00:34:26,560

what to do with bo so for safe keeping

696

00:34:29,990 --> 00:34:28,800

they decided to lock him up in a tin can

697

00:34:32,149 --> 00:34:30,000

for a month

698

00:34:34,149 --> 00:34:32,159

now nasa officials

699

00:34:36,230 --> 00:34:34,159

assure us that this was not as a

700

00:34:38,470 --> 00:34:36,240

punishment for anything he had done

701
00:34:40,069 --> 00:34:38,480
rather it was to see how he bob crippen

702
00:34:44,470 --> 00:34:40,079
and bill thornton would make out in a

703
00:34:46,230 --> 00:34:44,480
simulated skylab mission known as smeat

704
00:34:48,550 --> 00:34:46,240
actually the russians are still doing

705
00:34:49,669 --> 00:34:48,560
this only they lock people up for 500

706
00:34:51,909 --> 00:34:49,679
days

707
00:34:53,669 --> 00:34:51,919
instead of just a month so i suspect

708
00:34:57,109 --> 00:34:53,679
that beau is probably happy that he was

709
00:34:58,790 --> 00:34:57,119
born in new york and not in moscow

710
00:35:00,950 --> 00:34:58,800
but it turns out that moscow was

711
00:35:03,910 --> 00:35:00,960
actually next on beau's dance card as

712
00:35:05,670 --> 00:35:03,920
support crew for apollo soyuz

713
00:35:07,670 --> 00:35:05,680

and the russians taught him a lot about

714

00:35:09,750 --> 00:35:07,680

survival tactics how to make it through

715

00:35:11,270 --> 00:35:09,760

evening after evening of vodka toasts

716

00:35:14,069 --> 00:35:11,280

and then be ready for action the

717

00:35:16,470 --> 00:35:14,079

following morning

718

00:35:18,150 --> 00:35:16,480

well he survived and finally did get

719

00:35:20,390 --> 00:35:18,160

assigned to his first spaceflight as you

720

00:35:22,069 --> 00:35:20,400

heard as pilot of sts-6 the maiden

721

00:35:23,829 --> 00:35:22,079

voyage of challenger

722

00:35:26,150 --> 00:35:23,839

thus becoming the first air force

723

00:35:28,550 --> 00:35:26,160

academy graduate not only to be selected

724

00:35:31,510 --> 00:35:28,560

as astronaut but actually to fly in

725

00:35:33,270 --> 00:35:31,520

space fulfilling his long-held dream

726
00:35:35,829 --> 00:35:33,280
and following that he was named as a

727
00:35:38,950 --> 00:35:35,839
commander of a flight which originally

728
00:35:40,870 --> 00:35:38,960
was supposed to go in june of 1984

729
00:35:43,030 --> 00:35:40,880
leading a team of four rookies don

730
00:35:44,790 --> 00:35:43,040
williams dave griggs ray sudden and

731
00:35:47,349 --> 00:35:44,800
myself

732
00:35:49,990 --> 00:35:47,359
and i'm really sure that the hardest

733
00:35:52,630 --> 00:35:50,000
part of this command for beau was being

734
00:35:55,190 --> 00:35:52,640
outnumbered by two navy pilots

735
00:35:56,710 --> 00:35:55,200
who early in training presented him with

736
00:35:59,109 --> 00:35:56,720
a book of naval traditions and

737
00:36:01,030 --> 00:35:59,119
regulations and regularly quizzed him on

738
00:36:03,910 --> 00:36:01,040

it to make sure that he was learning i

739

00:36:05,829 --> 00:36:03,920

have to say he was a good sport

740

00:36:08,390 --> 00:36:05,839

well those were the days of mission

741

00:36:10,470 --> 00:36:08,400

delays cancellations of crews being

742

00:36:12,310 --> 00:36:10,480

reassigned to different payloads getting

743

00:36:14,550 --> 00:36:12,320

different shuttles and we experience

744

00:36:16,310 --> 00:36:14,560

this in spades

745

00:36:18,069 --> 00:36:16,320

frankly the story of how our crew

746

00:36:19,750 --> 00:36:18,079

progressed through four different flight

747

00:36:22,230 --> 00:36:19,760

assignments bounced back and forth

748

00:36:23,910 --> 00:36:22,240

between two orbiters acquired three

749

00:36:25,349 --> 00:36:23,920

different payload specialists would take

750

00:36:27,030 --> 00:36:25,359

much too long

751

00:36:30,390 --> 00:36:27,040

i'll just say that by the time we

752

00:36:32,390 --> 00:36:30,400

finally launched on april 12th of 1985

753

00:36:34,550 --> 00:36:32,400

and by the way i'll remind you april

754

00:36:36,710 --> 00:36:34,560

12th is not just the anniversary of yuri

755

00:36:39,510 --> 00:36:36,720

gagarin's flight and of john young's and

756

00:36:41,589 --> 00:36:39,520

bob crippen's flight on columbia that

757

00:36:42,790 --> 00:36:41,599

was the auspicious day when beau led us

758

00:36:45,430 --> 00:36:42,800

into space

759

00:36:48,230 --> 00:36:45,440

anyway by the time we finally launched

760

00:36:50,550 --> 00:36:48,240

we had sent out 26 different letters to

761

00:36:53,030 --> 00:36:50,560

our launch guests updating them about

762

00:36:56,630 --> 00:36:53,040

when and with what orbiter and on what

763

00:36:57,510 --> 00:36:56,640

mission we might finally fly

764

00:36:59,109 --> 00:36:57,520

well

765

00:37:01,990 --> 00:36:59,119

we have an engineering leadership

766

00:37:04,069 --> 00:37:02,000

program at mit and i often use bow as an

767

00:37:06,069 --> 00:37:04,079

example of good leadership when i give

768

00:37:07,829 --> 00:37:06,079

lessons to my students

769

00:37:09,750 --> 00:37:07,839

let me give you an example

770

00:37:10,870 --> 00:37:09,760

one of the more difficult times in our

771

00:37:15,030 --> 00:37:10,880

training

772

00:37:16,710 --> 00:37:15,040

was after the pad abort of june of 1984

773

00:37:19,270 --> 00:37:16,720

and that led to the consulate

774

00:37:21,589 --> 00:37:19,280

consolidation of the june and august

775

00:37:24,870 --> 00:37:21,599

commercial satellite payloads by that

776

00:37:27,349 --> 00:37:24,880

time we had slipped the august flight

777

00:37:29,349 --> 00:37:27,359

but they scrubbed the spartan satellite

778

00:37:31,030 --> 00:37:29,359

which we had been planning to deploy and

779

00:37:33,910 --> 00:37:31,040

rendezvous with and retrieved and they

780

00:37:35,990 --> 00:37:33,920

scrubbed us as well reassigning us to an

781

00:37:37,190 --> 00:37:36,000

ius tdrs deployment the following

782

00:37:39,510 --> 00:37:37,200

january

783

00:37:41,030 --> 00:37:39,520

which was a pretty long wait and a big

784

00:37:43,190 --> 00:37:41,040

blow particularly for those of us who

785

00:37:45,510 --> 00:37:43,200

hadn't flown before and here's where

786

00:37:47,670 --> 00:37:45,520

bo's personal qualities as a leader

787

00:37:50,310 --> 00:37:47,680

really came into play because as i said

788

00:37:53,030 --> 00:37:50,320

we we were kind of demoralized at that

789

00:37:55,829 --> 00:37:53,040

point and what was beau's response hey

790

00:37:58,069 --> 00:37:55,839

guys let's party and that's typical of

791

00:38:00,069 --> 00:37:58,079

bo not that he's a party animal

792

00:38:02,710 --> 00:38:00,079

not exactly not for those of you who

793

00:38:04,950 --> 00:38:02,720

know him well no the point is beau loved

794

00:38:07,270 --> 00:38:04,960

space flight he wanted everyone working

795

00:38:10,069 --> 00:38:07,280

with him to enjoy it as much as he did

796

00:38:12,310 --> 00:38:10,079

and he knew from experience that despite

797

00:38:14,390 --> 00:38:12,320

delays a first flight is worth waiting

798

00:38:16,950 --> 00:38:14,400

for and he did everything he could to

799

00:38:18,790 --> 00:38:16,960

help our morale he enjoyed flying so

800

00:38:20,310 --> 00:38:18,800

much his family has told me they could

801
00:38:22,310 --> 00:38:20,320
actually judge

802
00:38:24,069 --> 00:38:22,320
how close he was getting to a flight

803
00:38:26,790 --> 00:38:24,079
because the smile on his face kept

804
00:38:29,670 --> 00:38:26,800
getting bigger and bigger and bigger

805
00:38:32,470 --> 00:38:29,680
so anyway in april of 1985 we were

806
00:38:34,310 --> 00:38:32,480
finally ready to go on sts sts-51d and

807
00:38:37,190 --> 00:38:34,320
it turned out to be a pretty exciting

808
00:38:38,950 --> 00:38:37,200
flight with many unexpected events and i

809
00:38:40,550 --> 00:38:38,960
just want to describe two of them which

810
00:38:42,550 --> 00:38:40,560
will allow me to tell you a little bit

811
00:38:44,069 --> 00:38:42,560
about what it was like working with bow

812
00:38:46,550 --> 00:38:44,079
as a commander

813
00:38:48,870 --> 00:38:46,560

beau is cool under pressure

814

00:38:51,030 --> 00:38:48,880

and i saw this on numerous occasions the

815

00:38:52,390 --> 00:38:51,040

first of which was right after main

816

00:38:54,470 --> 00:38:52,400

engine cut off

817

00:38:56,470 --> 00:38:54,480

we had been asked to try a new way of

818

00:38:58,470 --> 00:38:56,480

dumping the residual hydrogen through

819

00:39:00,870 --> 00:38:58,480

the fill and drain valve which could

820

00:39:02,870 --> 00:39:00,880

potentially do a dump faster than using

821

00:39:05,109 --> 00:39:02,880

the normal techniques and for any of the

822

00:39:07,349 --> 00:39:05,119

plts here i hope i got that right main

823

00:39:10,550 --> 00:39:07,359

engines were never my specialty but i

824

00:39:12,630 --> 00:39:10,560

try anyway right after et separation don

825

00:39:14,550 --> 00:39:12,640

williams opened the valves which caused

826

00:39:16,870 --> 00:39:14,560

a huge raw moment because the dump

827

00:39:19,030 --> 00:39:16,880

didn't go through the cg

828

00:39:21,510 --> 00:39:19,040

through discovery about 90 degrees out

829

00:39:23,990 --> 00:39:21,520

of attitude led to almost constant

830

00:39:25,589 --> 00:39:24,000

firing of our attitude control jets and

831

00:39:27,829 --> 00:39:25,599

people who have experienced these know

832

00:39:29,430 --> 00:39:27,839

how loud they are i mean i was a rookie

833

00:39:31,270 --> 00:39:29,440

down on the mid-deck and i thought i was

834

00:39:32,710 --> 00:39:31,280

in the middle of an artillery barrage

835

00:39:34,870 --> 00:39:32,720

down there

836

00:39:36,790 --> 00:39:34,880

don's voice from up on the flight deck

837

00:39:38,710 --> 00:39:36,800

seemed about an octave higher as he

838

00:39:40,230 --> 00:39:38,720

asked beau quickly should we shut the

839

00:39:43,030 --> 00:39:40,240

valves

840

00:39:45,190 --> 00:39:43,040

bo just said perfectly calmly no let's

841

00:39:47,349 --> 00:39:45,200

leave them open and see what happens

842

00:39:49,109 --> 00:39:47,359

well of course we we survived and and i

843

00:39:51,030 --> 00:39:49,119

think we succeeded in demonstrating that

844

00:39:53,510 --> 00:39:51,040

this was maybe not an optimum technique

845

00:39:55,829 --> 00:39:53,520

for dumping the hydrogen

846

00:39:57,430 --> 00:39:55,839

now our mission as planned was pretty

847

00:39:59,270 --> 00:39:57,440

simple we were going to deploy two

848

00:40:02,150 --> 00:39:59,280

satellites do a few medical experiments

849

00:40:04,790 --> 00:40:02,160

and come home after four days

850

00:40:07,270 --> 00:40:04,800

i don't know bo you may have some

851
00:40:09,430 --> 00:40:07,280
special karma about satellites i mean

852
00:40:11,670 --> 00:40:09,440
the first ius tdrs which you guys

853
00:40:13,430 --> 00:40:11,680
deployed on your first flight didn't get

854
00:40:15,670 --> 00:40:13,440
to the proper orbit

855
00:40:16,790 --> 00:40:15,680
the second tdrs that was going to be

856
00:40:18,710 --> 00:40:16,800
launched

857
00:40:20,950 --> 00:40:18,720
which would have been the third of our

858
00:40:23,430 --> 00:40:20,960
assigned flights the previous january

859
00:40:25,270 --> 00:40:23,440
had a problem it was still on the ground

860
00:40:27,510 --> 00:40:25,280
and now even though our first satellite

861
00:40:29,910 --> 00:40:27,520
worked okay we deployed the second

862
00:40:32,069 --> 00:40:29,920
satellite and it never turned on

863
00:40:34,069 --> 00:40:32,079

so i don't know but it sure turned out

864

00:40:35,990 --> 00:40:34,079

to be a lot of fun

865

00:40:37,589 --> 00:40:36,000

because mission control came up with a

866

00:40:39,510 --> 00:40:37,599

really neat plan by which we would

867

00:40:41,750 --> 00:40:39,520

manufacture some special tools

868

00:40:44,230 --> 00:40:41,760

resembling fly swatters after which bow

869

00:40:46,230 --> 00:40:44,240

became known as the leader of nasa's

870

00:40:48,470 --> 00:40:46,240

swat team

871

00:40:50,710 --> 00:40:48,480

then we would do an eva a spacewalk to

872

00:40:52,950 --> 00:40:50,720

attach them to the remote manipulator

873

00:40:55,589 --> 00:40:52,960

arm and then finally rendezvous with the

874

00:40:58,069 --> 00:40:55,599

syncom satellite to flick a possibly

875

00:41:00,470 --> 00:40:58,079

malfunctioning switch on this

876

00:41:02,390 --> 00:41:00,480

spinning satellite now the problem was

877

00:41:04,630 --> 00:41:02,400

that nasa had never before done a

878

00:41:06,710 --> 00:41:04,640

completely unplanned eva

879

00:41:08,390 --> 00:41:06,720

the arm had never been used for anything

880

00:41:10,390 --> 00:41:08,400

remotely like this

881

00:41:12,309 --> 00:41:10,400

and most important it had been 10 months

882

00:41:13,670 --> 00:41:12,319

since we had ever done any rendezvous

883

00:41:16,309 --> 00:41:13,680

practice i mean we didn't even have a

884

00:41:18,630 --> 00:41:16,319

rendezvous checklist on board and so

885

00:41:20,230 --> 00:41:18,640

they had to transcribe the entire

886

00:41:22,710 --> 00:41:20,240

checklist send it up to us by

887

00:41:24,309 --> 00:41:22,720

teleprinter we ended up with a 20 foot

888

00:41:27,190 --> 00:41:24,319

long yellow

889

00:41:29,510 --> 00:41:27,200

rendezvous scroll basically which bo and

890

00:41:32,069 --> 00:41:29,520

don williams had to cut up into page

891

00:41:34,710 --> 00:41:32,079

size pieces and paste into our post

892

00:41:37,109 --> 00:41:34,720

insertion checklist and i still treasure

893

00:41:39,910 --> 00:41:37,119

the image of bo and don pasting together

894

00:41:41,829 --> 00:41:39,920

this uh this checklist and of course i

895

00:41:43,910 --> 00:41:41,839

also cherish the memory of beau helping

896

00:41:45,910 --> 00:41:43,920

me into my space suit

897

00:41:48,309 --> 00:41:45,920

so it was quite an adventure

898

00:41:50,309 --> 00:41:48,319

and it was nearing the final phases of

899

00:41:52,230 --> 00:41:50,319

rendezvous when beau taught me another

900

00:41:54,470 --> 00:41:52,240

lesson in leadership

901
00:41:57,109 --> 00:41:54,480
i was helping bo and don as the

902
00:41:58,550 --> 00:41:57,119
rendezvous navigator back in those days

903
00:42:01,349 --> 00:41:58,560
things were a bit more primitive than

904
00:42:03,349 --> 00:42:01,359
they are now and one of the primary ways

905
00:42:05,910 --> 00:42:03,359
in which we determined how far away a

906
00:42:08,309 --> 00:42:05,920
satellite was was to measure the size of

907
00:42:09,750 --> 00:42:08,319
the satellite on the tv screen and that

908
00:42:11,270 --> 00:42:09,760
was my job

909
00:42:12,069 --> 00:42:11,280
but i have to admit

910
00:42:14,870 --> 00:42:12,079
that

911
00:42:17,510 --> 00:42:14,880
we saw this huge satellite floating

912
00:42:19,270 --> 00:42:17,520
motionless outside the shuttle i mean i

913
00:42:21,589 --> 00:42:19,280

had never imagined anything like this

914

00:42:24,390 --> 00:42:21,599

and and i got sort of lost in a state of

915

00:42:25,829 --> 00:42:24,400

reverie when all of a sudden i heard a

916

00:42:27,349 --> 00:42:25,839

soft voice

917

00:42:29,750 --> 00:42:27,359

calmly asking

918

00:42:31,589 --> 00:42:29,760

i can't understand why nobody is giving

919

00:42:34,630 --> 00:42:31,599

me range calls

920

00:42:37,190 --> 00:42:34,640

i mean no shouting no panic no nasty

921

00:42:39,349 --> 00:42:37,200

language just the cool voice of

922

00:42:41,589 --> 00:42:39,359

authority that brought me back

923

00:42:43,109 --> 00:42:41,599

that's the way to lead and we all

924

00:42:45,349 --> 00:42:43,119

appreciate it and that's the image of

925

00:42:47,030 --> 00:42:45,359

beau that i'll never forget because i

926
00:42:49,109 --> 00:42:47,040
mean there we were doing something we

927
00:42:51,270 --> 00:42:49,119
had never anticipated

928
00:42:53,990 --> 00:42:51,280
for which our last training was almost a

929
00:42:56,470 --> 00:42:54,000
year out of date and yet beau was calmly

930
00:42:57,910 --> 00:42:56,480
looking out the window flying discovery

931
00:43:00,069 --> 00:42:57,920
with great skill as though we had

932
00:43:03,030 --> 00:43:00,079
rehearsed this many many times and

933
00:43:05,510 --> 00:43:03,040
keeping a cool head throughout

934
00:43:07,270 --> 00:43:05,520
well beau had one more flight after 51d

935
00:43:08,950 --> 00:43:07,280
but it was a military flight so i can't

936
00:43:10,309 --> 00:43:08,960
tell you a whole lot about it other than

937
00:43:12,069 --> 00:43:10,319
that it was the maiden voyage of

938
00:43:14,470 --> 00:43:12,079

atlantis which made it the second

939

00:43:17,750 --> 00:43:14,480

inaugural shuttle flight that beau was

940

00:43:19,510 --> 00:43:17,760

on and that was his final shuttle flight

941

00:43:21,750 --> 00:43:19,520

diane tells me that one of the saddest

942

00:43:23,670 --> 00:43:21,760

days of bo's life was when he had to

943

00:43:25,990 --> 00:43:23,680

clean out his flight locker at ellington

944

00:43:28,950 --> 00:43:26,000

because beau so loved to fly and of

945

00:43:30,550 --> 00:43:28,960

course it's hard to say goodbye

946

00:43:33,030 --> 00:43:30,560

but beau has continued to serve the

947

00:43:34,870 --> 00:43:33,040

space program both in houston and now in

948

00:43:37,349 --> 00:43:34,880

california where he's in charge of the

949

00:43:39,510 --> 00:43:37,359

simulators at nasa ames

950

00:43:42,069 --> 00:43:39,520

flying simulators may not be as exciting

951
00:43:44,150 --> 00:43:42,079
as flying airplanes or space shuttles

952
00:43:46,710 --> 00:43:44,160
but beau loves technical challenges and

953
00:43:48,390 --> 00:43:46,720
he continues to be a fine team leader

954
00:43:50,710 --> 00:43:48,400
and a fine person

955
00:43:52,390 --> 00:43:50,720
bo we are truly delighted to welcome you

956
00:44:27,910 --> 00:43:52,400
to the astronaut hall of fame

957
00:44:33,990 --> 00:44:29,750
thank you jeff

958
00:44:37,910 --> 00:44:35,910
the 50th anniversary of human space

959
00:44:40,470 --> 00:44:37,920
flight has caused me to look back on my

960
00:44:43,430 --> 00:44:40,480
own career in aerospace

961
00:44:45,030 --> 00:44:43,440
it's been about 50 years

962
00:44:47,589 --> 00:44:45,040
when the first satellite was launched i

963
00:44:49,910 --> 00:44:47,599

was a cadet at the air force academy

964

00:44:51,910 --> 00:44:49,920

and my instructor said it's not going to

965

00:44:53,670 --> 00:44:51,920

be very long before people start to fly

966

00:44:55,829 --> 00:44:53,680

in space

967

00:44:57,270 --> 00:44:55,839

it was at that time that i decided i

968

00:44:59,910 --> 00:44:57,280

wanted to be one of those space

969

00:45:03,829 --> 00:45:01,510

when the first man did fly i was

970

00:45:05,750 --> 00:45:03,839

finishing my training and just entering

971

00:45:07,190 --> 00:45:05,760

the operational air force as a fighter

972

00:45:09,030 --> 00:45:07,200

pilot

973

00:45:11,109 --> 00:45:09,040

my wife says

974

00:45:15,109 --> 00:45:11,119

that whenever i had a chance i selected

975

00:45:17,030 --> 00:45:15,119

the path towards getting into space

976
00:45:18,950 --> 00:45:17,040
in those days the air force was anxious

977
00:45:20,790 --> 00:45:18,960
to get people in space

978
00:45:23,670 --> 00:45:20,800
they've been called a test pilot school

979
00:45:26,309 --> 00:45:23,680
the aerospace research pilot school

980
00:45:28,710 --> 00:45:26,319
it was not long before the air force had

981
00:45:31,190 --> 00:45:28,720
hopes of flying dinosaur and then the

982
00:45:33,510 --> 00:45:31,200
manned orbiting laboratory as jeff has

983
00:45:35,589 --> 00:45:33,520
already spoken to you about

984
00:45:37,270 --> 00:45:35,599
i was selected as one of those mol crew

985
00:45:40,550 --> 00:45:37,280
members

986
00:45:42,550 --> 00:45:40,560
until the program was cancelled

987
00:45:45,109 --> 00:45:42,560
fortunately

988
00:45:48,230 --> 00:45:45,119

seven of us mol people were picked up by

989

00:45:51,030 --> 00:45:48,240

nasa as astronauts

990

00:45:52,790 --> 00:45:51,040

of course there were times i didn't

991

00:45:54,069 --> 00:45:52,800

it didn't seem that joining nasa was

992

00:45:55,670 --> 00:45:54,079

fortunate

993

00:45:56,630 --> 00:45:55,680

because they were canceling apollo

994

00:45:58,550 --> 00:45:56,640

program

995

00:45:59,510 --> 00:45:58,560

uh flights they were canceling skylab

996

00:46:02,790 --> 00:45:59,520

flights

997

00:46:04,550 --> 00:46:02,800

and the shuttle kept moving to the right

998

00:46:06,230 --> 00:46:04,560

the closest i got to flight in those

999

00:46:08,470 --> 00:46:06,240

early days with the skylab medical

1000

00:46:10,790 --> 00:46:08,480

experiment which you've already

1001
00:46:14,309 --> 00:46:10,800
heard about the only difference is it

1002
00:46:15,510 --> 00:46:14,319
was two months not just one month

1003
00:46:17,190 --> 00:46:15,520
i can

1004
00:46:19,910 --> 00:46:17,200
remember

1005
00:46:22,069 --> 00:46:19,920
bill thornton who was a medical doctor

1006
00:46:24,870 --> 00:46:22,079
calling out our out to our flight

1007
00:46:28,150 --> 00:46:24,880
surgeon who was outside and telling him

1008
00:46:29,829 --> 00:46:28,160
how he was noting strange behavior

1009
00:46:31,109 --> 00:46:29,839
bill ticked off a list of items you

1010
00:46:34,309 --> 00:46:31,119
could and you could hear the flight

1011
00:46:36,230 --> 00:46:34,319
surgeon get more and more excited

1012
00:46:37,030 --> 00:46:36,240
finally the flight surgeon couldn't ask

1013
00:46:39,190 --> 00:46:37,040

that

1014

00:46:40,790 --> 00:46:39,200

standard anymore and asked bill

1015

00:46:42,710 --> 00:46:40,800

okay tell me which one of the crew is

1016

00:46:45,990 --> 00:46:42,720

having the problems

1017

00:46:47,589 --> 00:46:46,000

the answer was it wasn't inside smeat it

1018

00:46:51,829 --> 00:46:47,599

was the management committee on the

1019

00:46:56,790 --> 00:46:54,390

i also worked with the russians as as

1020

00:46:58,550 --> 00:46:56,800

jeff mentioned

1021

00:47:00,550 --> 00:46:58,560

i remember this was at the height of the

1022

00:47:02,950 --> 00:47:00,560

cold war

1023

00:47:05,750 --> 00:47:02,960

i can remember walking across red square

1024

00:47:07,030 --> 00:47:05,760

one night when uh with bob overmeyer and

1025

00:47:08,470 --> 00:47:07,040

he said

1026

00:47:10,950 --> 00:47:08,480

you know bo

1027

00:47:13,109 --> 00:47:10,960

i never doubted i'd be here

1028

00:47:16,550 --> 00:47:13,119

i just thought it would be at 200 feet

1029

00:47:21,270 --> 00:47:18,630

the job that did require some flying was

1030

00:47:23,670 --> 00:47:21,280

the shuttle approach and landing tests

1031

00:47:27,270 --> 00:47:23,680

bob obermeyer and i alternated between

1032

00:47:29,030 --> 00:47:27,280

being capcom and the prime shuttle chase

1033

00:47:31,510 --> 00:47:29,040

being next to the shuttle as it flew off

1034

00:47:34,390 --> 00:47:31,520

at the top of the 747

1035

00:47:36,230 --> 00:47:34,400

really was quite a sight

1036

00:47:37,750 --> 00:47:36,240

and being with anglin truly as they

1037

00:47:38,950 --> 00:47:37,760

prepared for a flight was quite an

1038

00:47:41,030 --> 00:47:38,960

experience

1039

00:47:42,470 --> 00:47:41,040

as an example they had china and

1040

00:47:45,030 --> 00:47:42,480

candelabra

1041

00:47:48,950 --> 00:47:45,040

not paper plates and plastic forks on

1042

00:47:53,589 --> 00:47:51,670

between these various tasks i have

1043

00:47:55,030 --> 00:47:53,599

described i worked on space shuttle

1044

00:47:57,109 --> 00:47:55,040

development

1045

00:47:59,510 --> 00:47:57,119

especially on approaching landing

1046

00:48:01,750 --> 00:47:59,520

rollout and auto land

1047

00:48:04,630 --> 00:48:01,760

that auto land development experience

1048

00:48:06,870 --> 00:48:04,640

probably was partially responsible

1049

00:48:08,230 --> 00:48:06,880

for our crew getting the detailed test

1050

00:48:10,549 --> 00:48:08,240

objective of

1051

00:48:12,069 --> 00:48:10,559

of uh flying the auto land

1052

00:48:15,190 --> 00:48:12,079

our motto was

1053

00:48:20,790 --> 00:48:15,200

spectre mater nullis manus which means

1054

00:48:23,589 --> 00:48:22,230

i don't know whether it was fortunate or

1055

00:48:25,829 --> 00:48:23,599

not but that

1056

00:48:27,990 --> 00:48:25,839

dto was canceled and so we never did the

1057

00:48:30,390 --> 00:48:28,000

auto land

1058

00:48:32,950 --> 00:48:30,400

one day john young came to my office and

1059

00:48:35,030 --> 00:48:32,960

he pulled on my sleeve and said

1060

00:48:37,270 --> 00:48:35,040

he would like me to take a small group

1061

00:48:39,990 --> 00:48:37,280

of folks and go to ksc to help them get

1062

00:48:41,750 --> 00:48:40,000

colombia ready for flight

1063

00:48:42,710 --> 00:48:41,760

we would work with the countdown working

1064

00:48:44,309 --> 00:48:42,720

group

1065

00:48:45,510 --> 00:48:44,319

help decide what testing should be

1066

00:48:47,670 --> 00:48:45,520

performed

1067

00:48:49,190 --> 00:48:47,680

and then participate in the testing

1068

00:48:50,549 --> 00:48:49,200

serve as the liaison between the

1069

00:48:52,630 --> 00:48:50,559

astronaut office and the shuttle

1070

00:48:55,270 --> 00:48:52,640

activities that were taking place at the

1071

00:48:57,109 --> 00:48:55,280

cape and do whatever was necessary to be

1072

00:48:58,950 --> 00:48:57,119

done down there

1073

00:49:01,510 --> 00:48:58,960

john said there would probably be quite

1074

00:49:03,430 --> 00:49:01,520

a bit of travel for a couple of months

1075

00:49:05,750 --> 00:49:03,440

actually there was quite a bit of travel

1076

00:49:07,190 --> 00:49:05,760

for a couple of years

1077

00:49:09,109 --> 00:49:07,200

when they were trying to get colombia

1078

00:49:11,670 --> 00:49:09,119

ready to flight

1079

00:49:13,829 --> 00:49:11,680

when colombia flew from palmdale to ksc

1080

00:49:15,510 --> 00:49:13,839

quite a few of the tiles came off

1081

00:49:18,549 --> 00:49:15,520

that meant all the tiles were

1082

00:49:21,030 --> 00:49:18,559

questionable and needed to be tested

1083

00:49:23,349 --> 00:49:21,040

it was a year before they were pasting

1084

00:49:24,710 --> 00:49:23,359

more tiles back on the shuttle before

1085

00:49:26,950 --> 00:49:24,720

they were taking tiles off of the

1086

00:49:29,190 --> 00:49:26,960

shuttle

1087

00:49:31,270 --> 00:49:29,200

but it wasn't only the tiles

1088

00:49:33,910 --> 00:49:31,280

the first time columbia was powered up i

1089

00:49:36,390 --> 00:49:33,920

gave dick scoby the honor of being in

1090

00:49:38,150 --> 00:49:36,400

the cockpit for the power up

1091

00:49:39,589 --> 00:49:38,160

dick was there for the call to stations

1092

00:49:41,990 --> 00:49:39,599

at 8 am

1093

00:49:44,390 --> 00:49:42,000

the test started a little later

1094

00:49:47,670 --> 00:49:44,400

and he was still there when i came to

1095

00:49:49,670 --> 00:49:47,680

relieve him the next morning at 6 a.m

1096

00:49:52,069 --> 00:49:49,680

the problem was i couldn't get dick out

1097

00:49:55,589 --> 00:49:52,079

of the cockpit until he had thrown at

1098

00:49:57,589 --> 00:49:55,599

least one switch

1099

00:49:58,790 --> 00:49:57,599

we had a lot to learn a lot to learn in

1100

00:50:01,030 --> 00:49:58,800

those days

1101
00:50:02,870 --> 00:50:01,040
the tiles were were just the item that

1102
00:50:04,309 --> 00:50:02,880
was taking the blame

1103
00:50:05,829 --> 00:50:04,319
i made a graph

1104
00:50:06,870 --> 00:50:05,839
which showed how long it would be to

1105
00:50:08,870 --> 00:50:06,880
launch

1106
00:50:10,829 --> 00:50:08,880
and as we progressed through time the

1107
00:50:12,790 --> 00:50:10,839
time to launch kept getting

1108
00:50:14,470 --> 00:50:12,800
longer and

1109
00:50:16,710 --> 00:50:14,480
you know i couldn't i could hardly

1110
00:50:19,349 --> 00:50:16,720
understand it i thought i was a cosine

1111
00:50:21,109 --> 00:50:19,359
wave in a sine wave world

1112
00:50:23,430 --> 00:50:21,119
just out of phase with everything that

1113
00:50:25,750 --> 00:50:23,440

was going on

1114

00:50:28,230 --> 00:50:25,760

finally after 13 years

1115

00:50:30,470 --> 00:50:28,240

there were my three flights

1116

00:50:31,670 --> 00:50:30,480

i won't try to describe space flight to

1117

00:50:33,910 --> 00:50:31,680

this group

1118

00:50:35,589 --> 00:50:33,920

since you are one of the few groups and

1119

00:50:38,309 --> 00:50:35,599

in the world who really understand what

1120

00:50:43,109 --> 00:50:41,190

my first flight was exciting for me

1121

00:50:45,270 --> 00:50:43,119

since space was a new environment and

1122

00:50:46,950 --> 00:50:45,280

there were so many new items to see and

1123

00:50:48,710 --> 00:50:46,960

do

1124

00:50:50,230 --> 00:50:48,720

the second flight was challenging since

1125

00:50:51,349 --> 00:50:50,240

we were asked to perform an unplanned

1126

00:50:53,510 --> 00:50:51,359

dba

1127

00:50:55,589 --> 00:50:53,520

rendezvous and activities with the robot

1128

00:50:57,430 --> 00:50:55,599

arm which jeff has already told you

1129

00:50:59,670 --> 00:50:57,440

about

1130

00:51:01,589 --> 00:50:59,680

my third flight was enjoyable

1131

00:51:03,109 --> 00:51:01,599

since by then i was familiar with flying

1132

00:51:04,470 --> 00:51:03,119

the shuttle and was an experienced

1133

00:51:06,150 --> 00:51:04,480

commander

1134

00:51:08,549 --> 00:51:06,160

i could tell you more about exactly what

1135

00:51:09,910 --> 00:51:08,559

happened on that flight but then i'd

1136

00:51:12,309 --> 00:51:09,920

have to shoot just since it was a

1137

00:51:15,270 --> 00:51:12,319

military flight

1138

00:51:19,030 --> 00:51:15,280

and of course all space flight

1139

00:51:20,790 --> 00:51:19,040

is beautiful and inspiring

1140

00:51:23,589 --> 00:51:20,800

it all didn't end with my last space

1141

00:51:25,750 --> 00:51:23,599

flight i was in my office one day when

1142

00:51:28,150 --> 00:51:25,760

pj white's the commander of my first

1143

00:51:29,910 --> 00:51:28,160

call my first flight called me on the

1144

00:51:32,870 --> 00:51:29,920

phone and said

1145

00:51:35,270 --> 00:51:32,880

bo we are going to open a new tal site

1146

00:51:40,069 --> 00:51:35,280

which is transatlantic a board site

1147

00:51:42,150 --> 00:51:40,079

for the coming mission i said to him pj

1148

00:51:43,750 --> 00:51:42,160

tell me who's going

1149

00:51:46,150 --> 00:51:43,760

when is he going

1150

00:51:49,190 --> 00:51:46,160

and how long will he stay

1151
00:51:52,309 --> 00:51:49,200
his answer was you tomorrow and i don't

1152
00:51:56,549 --> 00:51:54,150
that started

1153
00:51:58,710 --> 00:51:56,559
me looking at emergency sites over

1154
00:52:01,990 --> 00:51:58,720
africa and equipping all the shuttle

1155
00:52:03,750 --> 00:52:02,000
landing sites with the right equipment

1156
00:52:06,150 --> 00:52:03,760
after i left nasa in the air force and

1157
00:52:07,510 --> 00:52:06,160
joined the aerospace industry

1158
00:52:10,710 --> 00:52:07,520
i have been working with the shuttle and

1159
00:52:13,190 --> 00:52:10,720
station program for quite a few years

1160
00:52:15,750 --> 00:52:13,200
i still have an enjoyable job

1161
00:52:17,670 --> 00:52:15,760
again as jeff mentioned i am the program

1162
00:52:19,829 --> 00:52:17,680
manager for the contract which maintains

1163
00:52:22,950 --> 00:52:19,839

and operates the research simulators at

1164

00:52:25,349 --> 00:52:22,960

the named nasa ames research center

1165

00:52:28,150 --> 00:52:25,359

we have had simulations of rendezvous

1166

00:52:29,750 --> 00:52:28,160

and docking lunar landing and entry in

1167

00:52:31,349 --> 00:52:29,760

the space arena

1168

00:52:34,470 --> 00:52:31,359

and lots of aircraft and air traffic

1169

00:52:36,150 --> 00:52:34,480

control simulations

1170

00:52:38,150 --> 00:52:36,160

when i was recalling the things that i

1171

00:52:40,470 --> 00:52:38,160

have done i also recalled

1172

00:52:42,470 --> 00:52:40,480

the people i worked with

1173

00:52:44,150 --> 00:52:42,480

the people who had helped me

1174

00:52:47,109 --> 00:52:44,160

along the way

1175

00:52:48,870 --> 00:52:47,119

and the people i looked up to

1176
00:52:52,309 --> 00:52:48,880
with me that started with an eighth

1177
00:52:56,069 --> 00:52:54,069
who helped me get into a good technical

1178
00:52:57,750 --> 00:52:56,079
high school

1179
00:52:59,829 --> 00:52:57,760
she and her husband offered to let me

1180
00:53:02,630 --> 00:52:59,839
live with them so that i would be in the

1181
00:53:05,030 --> 00:53:02,640
proper school district

1182
00:53:06,549 --> 00:53:05,040
but that was just the start

1183
00:53:08,870 --> 00:53:06,559
many of the people in this audience

1184
00:53:10,710 --> 00:53:08,880
helped me along the way

1185
00:53:12,470 --> 00:53:10,720
your help and encouragement

1186
00:53:15,109 --> 00:53:12,480
have been instrumental in my standing

1187
00:53:19,109 --> 00:53:15,119
here today to receive the honor of being

1188
00:53:21,030 --> 00:53:19,119

inducted into the astronaut hall of fame

1189

00:53:25,109 --> 00:53:21,040

i decided i wouldn't read off a long

1190

00:53:40,470 --> 00:53:28,309

and that's my wife diana 50 years who

1191

00:53:44,630 --> 00:53:42,710

she has followed me and supported me

1192

00:53:46,790 --> 00:53:44,640

through all this even before we were

1193

00:53:48,069 --> 00:53:46,800

married

1194

00:53:50,630 --> 00:53:48,079

so

1195

00:53:52,630 --> 00:53:50,640

i humbly accept this honor as i

1196

00:53:54,630 --> 00:53:52,640

recognize all the people

1197

00:53:59,750 --> 00:53:54,640

who are also a part of this great

1198

00:54:07,349 --> 00:54:02,030

congratulations

1199

00:54:16,549 --> 00:54:07,359

to the united states astronaut hall of

1200

00:54:20,390 --> 00:54:18,069

you know jeff hoffman was telling me the

1201
00:54:23,190 --> 00:54:20,400
story today can you imagine they're

1202
00:54:25,190 --> 00:54:23,200
coming in on landing and hoffman saying

1203
00:54:27,750 --> 00:54:25,200
you know the flight's over this is great

1204
00:54:30,230 --> 00:54:27,760
no problems we're back on earth and then

1205
00:54:32,230 --> 00:54:30,240
all of a sudden boom

1206
00:54:34,630 --> 00:54:32,240
and the landing gear blows it's like you

1207
00:54:36,390 --> 00:54:34,640
know the eyes go

1208
00:54:38,390 --> 00:54:36,400
what happened here

1209
00:54:43,589 --> 00:54:38,400
but again as he mentioned cool as a

1210
00:54:50,710 --> 00:54:46,150
our second inductee today is lieutenant

1211
00:54:56,390 --> 00:54:52,589
helms has logged

1212
00:54:58,710 --> 00:54:56,400
5064 hours in space and holds the world

1213
00:55:01,510 --> 00:54:58,720

record for the longest spacewalk at

1214

00:55:03,030 --> 00:55:01,520

eight hours and 56 minutes i got that

1215

00:55:05,030 --> 00:55:03,040

right right

1216

00:55:08,470 --> 00:55:05,040

she's a veteran of five space shuttle

1217

00:55:11,589 --> 00:55:08,480

missions from march to august 2001 helms

1218

00:55:14,150 --> 00:55:11,599

became the first woman to live and serve

1219

00:55:17,589 --> 00:55:14,160

aboard the international space station

1220

00:55:19,030 --> 00:55:17,599

as a member of the expedition 2 crew

1221

00:55:22,150 --> 00:55:19,040

during that mission helms and her crew

1222

00:55:24,630 --> 00:55:22,160

welcomed the first space tourist

1223

00:55:28,870 --> 00:55:24,640

after a 12-year career with nasa that

1224

00:55:31,109 --> 00:55:28,880

included 211 days in space helms

1225

00:55:33,430 --> 00:55:31,119

returned to the united states air force

1226
00:55:36,470 --> 00:55:33,440
in july 2002

1227
00:55:38,870 --> 00:55:36,480
in january of 2011 she became commander

1228
00:55:43,030 --> 00:55:38,880
of the joint functional component

1229
00:55:45,109 --> 00:55:43,040
command for space and 14th air force

1230
00:56:31,109 --> 00:55:45,119
let's take a look now at some highlights

1231
00:56:31,119 --> 00:57:12,230
is

1232
00:57:15,829 --> 00:57:14,150
tonight's spacewalkers susan helms on

1233
00:57:30,390 --> 00:57:15,839
the left jim voss on the right soon to

1234
00:57:30,400 --> 00:58:07,589
make your touchdown

1235
00:58:11,589 --> 00:58:09,589
to present susan helms for induction

1236
00:58:13,990 --> 00:58:11,599
into the united states astronaut hall of

1237
00:58:16,950 --> 00:58:14,000
fame please welcome hall of fame

1238
00:58:20,309 --> 00:58:16,960

astronaut and nasa administrator charles

1239

00:58:23,109 --> 00:58:20,319

bolden thank you john thank you

1240

00:58:24,710 --> 00:58:23,119

welcome

1241

00:58:27,349 --> 00:58:24,720

probably the happiest person here right

1242

00:58:28,630 --> 00:58:27,359

now at least based on the look on his

1243

00:58:30,230 --> 00:58:28,640

face

1244

00:58:32,710 --> 00:58:30,240

is susan's dad over there it's

1245

00:58:35,190 --> 00:58:32,720

incredible watching him as we go through

1246

00:58:37,430 --> 00:58:35,200

this ceremony

1247

00:58:39,910 --> 00:58:37,440

it's um

1248

00:58:41,670 --> 00:58:39,920

it's an incredible honor for me this

1249

00:58:43,670 --> 00:58:41,680

afternoon to introduce to you one of my

1250

00:58:45,670 --> 00:58:43,680

heroes lieutenant general susan j helms

1251

00:58:47,990 --> 00:58:45,680

united states air force

1252

00:58:50,870 --> 00:58:48,000

john's already told you much about

1253

00:58:54,150 --> 00:58:50,880

her official air force and nasa careers

1254

00:58:57,670 --> 00:58:54,160

selected by nasa in january 1990 susan

1255

00:59:01,829 --> 00:58:57,680

became an astronaut in july 1991.

1256

00:59:06,710 --> 00:59:01,839

she flew on sts-54 in 93 sts-64

1257

00:59:08,549 --> 00:59:06,720

1994 sts 78 1998 sts-101

1258

00:59:11,030 --> 00:59:08,559

2000 and served aboard the international

1259

00:59:14,230 --> 00:59:11,040

space station as a member of the iss

1260

00:59:16,630 --> 00:59:14,240

expedition 2 crew in 2001.

1261

00:59:19,270 --> 00:59:16,640

a veteran of five flights she's logged

1262

00:59:21,589 --> 00:59:19,280

over 5 000 hours in space including a

1263

00:59:22,870 --> 00:59:21,599

world record eva of 8 hours and 56

1264

00:59:24,870 --> 00:59:22,880
minutes as john

1265

00:59:26,470 --> 00:59:24,880
uh just talked about

1266

00:59:29,349 --> 00:59:26,480
her incredible talent and leadership

1267

00:59:32,150 --> 00:59:29,359
ability became quite evident to me

1268

00:59:34,069 --> 00:59:32,160
during her first flight sts-54

1269

00:59:35,910 --> 00:59:34,079
on which she served as an ivy or

1270

00:59:37,589 --> 00:59:35,920
intervehicular crew member with

1271

00:59:41,670 --> 00:59:37,599
responsibility for overseeing the

1272

00:59:43,750 --> 00:59:41,680
conduct of the spacewalk on that flight

1273

00:59:47,109 --> 00:59:43,760
having trained as an iv crew member

1274

00:59:49,190 --> 00:59:47,119
crewman myself i watched in awe

1275

00:59:50,789 --> 00:59:49,200
as she set the standard for iv crew

1276

00:59:52,870 --> 00:59:50,799

members by the manner in which she

1277

00:59:54,309 --> 00:59:52,880

perfectly and deftly choreographed the

1278

00:59:55,910 --> 00:59:54,319

space walk

1279

00:59:58,069 --> 00:59:55,920

under her direction

1280

01:00:00,150 --> 00:59:58,079

we learned many lessons that would later

1281

01:00:02,150 --> 01:00:00,160

prove key to construction of the

1282

01:00:03,829 --> 01:00:02,160

international space station

1283

01:00:05,190 --> 01:00:03,839

but enough of the technical side of

1284

01:00:07,589 --> 01:00:05,200

susan

1285

01:00:11,349 --> 01:00:07,599

let me share with you some of the jewels

1286

01:00:14,069 --> 01:00:11,359

of her life from family and friends

1287

01:00:16,870 --> 01:00:14,079

susan enjoys piano and other musical

1288

01:00:19,190 --> 01:00:16,880

activities jogging traveling reading

1289

01:00:20,710 --> 01:00:19,200

computers and cooking

1290

01:00:22,710 --> 01:00:20,720

although susan will tell you she doesn't

1291

01:00:24,309 --> 01:00:22,720

have time to cook anymore

1292

01:00:25,750 --> 01:00:24,319

i remember when she checked into the

1293

01:00:28,870 --> 01:00:25,760

astronaut office

1294

01:00:31,349 --> 01:00:28,880

she joined the band max q singing lead

1295

01:00:33,190 --> 01:00:31,359

vocals and playing keyboard and i'll

1296

01:00:34,710 --> 01:00:33,200

have to tell you for anyone who's ever

1297

01:00:37,430 --> 01:00:34,720

heard max q

1298

01:00:39,589 --> 01:00:37,440

her addition to the band really helped

1299

01:00:40,829 --> 01:00:39,599

bring them into the realm of playing

1300

01:00:43,829 --> 01:00:40,839

real

1301

01:00:45,910 --> 01:00:43,839

music susan is one of four sisters

1302

01:00:48,549 --> 01:00:45,920

daughters to retired u.s air force

1303

01:00:51,589 --> 01:00:48,559

lieutenant colonel pat and dory helms

1304

01:00:53,910 --> 01:00:51,599

who reside in albuquerque new mexico

1305

01:00:56,710 --> 01:00:53,920

the hall of fame class of 2001 is not

1306

01:00:58,150 --> 01:00:56,720

only an all air force class in case you

1307

01:00:59,990 --> 01:00:58,160

didn't notice it

1308

01:01:02,069 --> 01:01:00,000

but it consists of two members who can

1309

01:01:04,549 --> 01:01:02,079

claim firsts from the united states air

1310

01:01:06,390 --> 01:01:04,559

force academy in colorado springs

1311

01:01:08,150 --> 01:01:06,400

beau bobco as you've already heard was a

1312

01:01:10,710 --> 01:01:08,160

member of the first graduating class of

1313

01:01:14,150 --> 01:01:10,720

the academy in 1959

1314

01:01:17,430 --> 01:01:14,160

and susan was one of 97 women to survive

1315

01:01:20,069 --> 01:01:17,440

from a class of 157 women to graduate

1316

01:01:22,950 --> 01:01:20,079

from the u.s air force academy in 1980

1317

01:01:32,230 --> 01:01:22,960

the first class to ever graduate women

1318

01:01:35,910 --> 01:01:34,870

according to her mom and dad dorian pat

1319

01:01:39,109 --> 01:01:35,920

helms

1320

01:01:41,750 --> 01:01:39,119

and this is a quote susan is the oldest

1321

01:01:44,150 --> 01:01:41,760

of four daughters and was well-behaved

1322

01:01:46,870 --> 01:01:44,160

quiet child

1323

01:01:49,750 --> 01:01:46,880

she taught herself to read early

1324

01:01:51,349 --> 01:01:49,760

and dory says i think the dr zeus books

1325

01:01:52,870 --> 01:01:51,359

and other books that were being read to

1326

01:01:54,870 --> 01:01:52,880

her helped

1327

01:01:56,549 --> 01:01:54,880

but she was six when i first took her to

1328

01:01:58,069 --> 01:01:56,559

a public library

1329

01:02:00,549 --> 01:01:58,079

i remember her standing in the middle of

1330

01:02:02,470 --> 01:02:00,559

a room full of books and asking me two

1331

01:02:04,789 --> 01:02:02,480

questions

1332

01:02:05,589 --> 01:02:04,799

how many books may i take home

1333

01:02:07,029 --> 01:02:05,599

and

1334

01:02:07,910 --> 01:02:07,039

when i've read all the books in this

1335

01:02:10,470 --> 01:02:07,920

room

1336

01:02:12,549 --> 01:02:10,480

may i start over

1337

01:02:14,950 --> 01:02:12,559

as a teenager her main extracurricular

1338

01:02:16,789 --> 01:02:14,960

interests were in the music field

1339

01:02:19,430 --> 01:02:16,799

susan was a percussionist in the band

1340

01:02:21,829 --> 01:02:19,440

and a pianist for the swing choir

1341

01:02:24,789 --> 01:02:21,839

however in the fall of her senior year

1342

01:02:25,990 --> 01:02:24,799

she read in the october 1975 parade

1343

01:02:27,750 --> 01:02:26,000

magazine

1344

01:02:30,470 --> 01:02:27,760

that they had opened the u.s air force

1345

01:02:31,910 --> 01:02:30,480

academy to women and decided she wanted

1346

01:02:33,190 --> 01:02:31,920

to apply

1347

01:02:36,309 --> 01:02:33,200

it was

1348

01:02:38,950 --> 01:02:36,319

okay with her mom and dad

1349

01:02:40,470 --> 01:02:38,960

though somewhat of a surprise

1350

01:02:42,710 --> 01:02:40,480

she had the grades in the leadership

1351
01:02:44,630 --> 01:02:42,720
skill but according to them she really

1352
01:02:47,430 --> 01:02:44,640
wasn't a jock

1353
01:02:49,829 --> 01:02:47,440
she just told us or told them

1354
01:02:51,510 --> 01:02:49,839
that she would need to get in shape and

1355
01:02:53,109 --> 01:02:51,520
that she did

1356
01:02:55,109 --> 01:02:53,119
her father pat

1357
01:02:58,870 --> 01:02:55,119
who took on the task recalls that her

1358
01:03:00,829 --> 01:02:58,880
first mile of running took 16 minutes

1359
01:03:05,029 --> 01:03:00,839
that's pretty good for

1360
01:03:06,710 --> 01:03:05,039
me i don't know about the rest of you

1361
01:03:09,670 --> 01:03:06,720
i would love to have a 16 minute mile

1362
01:03:13,589 --> 01:03:11,109
but when the time arrived for the

1363
01:03:15,990 --> 01:03:13,599

necessary physical test in january she

1364

01:03:18,390 --> 01:03:16,000

was doing an 8-minute mile and that day

1365

01:03:19,910 --> 01:03:18,400

did her first ever pull-up

1366

01:03:21,829 --> 01:03:19,920

hearing this story of susan's

1367

01:03:24,470 --> 01:03:21,839

conditioning makes it easier for me to

1368

01:03:26,150 --> 01:03:24,480

understand the story told to me by her

1369

01:03:28,950 --> 01:03:26,160

sister nancy

1370

01:03:31,349 --> 01:03:28,960

as the story goes and this is a quote

1371

01:03:33,029 --> 01:03:31,359

while visiting our family in 2004 or

1372

01:03:35,029 --> 01:03:33,039

2005

1373

01:03:35,910 --> 01:03:35,039

susan asked if we minded if she took our

1374

01:03:38,630 --> 01:03:35,920

dog

1375

01:03:40,710 --> 01:03:38,640

a beagle named radar then six years old

1376

01:03:42,710 --> 01:03:40,720

out for a jog

1377

01:03:44,710 --> 01:03:42,720

of course we agreed my husband and i

1378

01:03:46,230 --> 01:03:44,720

laughed and laughed while they were gone

1379

01:03:48,390 --> 01:03:46,240

about whether susan would be able to

1380

01:03:50,630 --> 01:03:48,400

keep up with the dog

1381

01:03:53,349 --> 01:03:50,640

about 40 minutes later

1382

01:03:55,109 --> 01:03:53,359

susan and radar returned from their run

1383

01:03:58,470 --> 01:03:55,119

and we asked how it went

1384

01:03:59,510 --> 01:03:58,480

in typical susan fashion she said fine

1385

01:04:02,789 --> 01:03:59,520

well

1386

01:04:04,710 --> 01:04:02,799

apparently radar had a different story

1387

01:04:07,109 --> 01:04:04,720

he returned from the run and lay down on

1388

01:04:09,910 --> 01:04:07,119

his bed radar didn't wait didn't get up

1389

01:04:16,470 --> 01:04:13,750

we had no idea that susan was so fit

1390

01:04:19,510 --> 01:04:16,480

she outran the dog

1391

01:04:22,069 --> 01:04:19,520

now i personally love the story of radar

1392

01:04:24,309 --> 01:04:22,079

and i must admit that it ended much much

1393

01:04:25,430 --> 01:04:24,319

better than i ever imagined as i was

1394

01:04:28,390 --> 01:04:25,440

reading it

1395

01:04:30,789 --> 01:04:28,400

because every time i knew susan she was

1396

01:04:32,470 --> 01:04:30,799

always in really good shape

1397

01:04:33,990 --> 01:04:32,480

and so while we were in the astronaut

1398

01:04:36,549 --> 01:04:34,000

office together as i was reading the

1399

01:04:38,870 --> 01:04:36,559

story i expected to read that that susan

1400

01:04:40,710 --> 01:04:38,880

would return holding the dog's dying

1401

01:04:43,670 --> 01:04:40,720

body in her arms

1402

01:04:45,829 --> 01:04:43,680

after she had run it into the ground

1403

01:04:47,510 --> 01:04:45,839

the good thing is the story ended a lot

1404

01:04:48,710 --> 01:04:47,520

better than that

1405

01:04:50,870 --> 01:04:48,720

susan

1406

01:04:52,950 --> 01:04:50,880

with mother's day coming up tomorrow

1407

01:04:55,670 --> 01:04:52,960

your mom wanted me to add how special it

1408

01:04:58,069 --> 01:04:55,680

was when you once wished her happy

1409

01:05:01,109 --> 01:04:58,079

mother's day from space

1410

01:05:02,630 --> 01:05:01,119

she also says i'll cry here

1411

01:05:04,710 --> 01:05:02,640

she also says one of the biggest

1412

01:05:08,309 --> 01:05:04,720

surprises of her life was during your

1413

01:05:11,029 --> 01:05:08,319

spacewalk in march on march 11 2001 when

1414

01:05:12,069 --> 01:05:11,039

you paused and wished a happy 68th

1415

01:05:14,789 --> 01:05:12,079

birthday

1416

01:05:16,069 --> 01:05:14,799

in her words and i quote doesn't get any

1417

01:05:18,390 --> 01:05:16,079

better than that

1418

01:05:19,829 --> 01:05:18,400

susan continues to amaze us and we love

1419

01:05:22,390 --> 01:05:19,839

her dearly

1420

01:05:24,230 --> 01:05:22,400

sister marge margie helms carrich also

1421

01:05:25,910 --> 01:05:24,240

reflects on what a very talented

1422

01:05:27,349 --> 01:05:25,920

musician you are

1423

01:05:29,190 --> 01:05:27,359

she told me of the day when you were

1424

01:05:32,150 --> 01:05:29,200

kids and your dad took the four girls to

1425

01:05:34,630 --> 01:05:32,160

the movie young frankenstein

1426

01:05:37,510 --> 01:05:34,640

when we came home susan

1427

01:05:39,670 --> 01:05:37,520

susan sat down at the piano and started

1428

01:05:41,349 --> 01:05:39,680

to play the music from the movie

1429

01:05:43,349 --> 01:05:41,359

by ear

1430

01:05:46,150 --> 01:05:43,359

i thought to myself that's just not

1431

01:05:50,150 --> 01:05:47,829

she was also the piano player in the

1432

01:05:53,430 --> 01:05:50,160

debonairs her high school musical

1433

01:05:56,470 --> 01:05:53,440

ensemble and she loves the show glee

1434

01:05:57,430 --> 01:05:56,480

also susan janet nancy and i are very

1435

01:05:59,270 --> 01:05:57,440

close

1436

01:06:01,510 --> 01:05:59,280

and in some combination have traveled

1437

01:06:03,349 --> 01:06:01,520

quite a bit together over the years many

1438

01:06:04,870 --> 01:06:03,359

trips to las vegas without the husbands

1439

01:06:06,710 --> 01:06:04,880

and kids

1440

01:06:09,670 --> 01:06:06,720

several trips meet trips to meet in

1441

01:06:12,230 --> 01:06:09,680

paris lots of trips to new york city

1442

01:06:14,630 --> 01:06:12,240

but the first trips were with my parents

1443

01:06:16,390 --> 01:06:14,640

traveling across the united states as

1444

01:06:19,430 --> 01:06:16,400

dad went to helicopter training before

1445

01:06:21,910 --> 01:06:19,440

his time in vietnam uh dory you'll need

1446

01:06:24,150 --> 01:06:21,920

to tell margie that he was actually

1447

01:06:26,710 --> 01:06:24,160

going to be 52 training just a little

1448

01:06:30,710 --> 01:06:29,109

margie continues we took our big green

1449

01:06:32,710 --> 01:06:30,720

station wagon and drove from

1450

01:06:34,309 --> 01:06:32,720

massachusetts to california stayed four

1451

01:06:36,150 --> 01:06:34,319

months in return

1452

01:06:37,190 --> 01:06:36,160

we have many family memories along the

1453

01:06:39,109 --> 01:06:37,200

way

1454

01:06:41,510 --> 01:06:39,119

sister nancy stutzman tells of the time

1455

01:06:43,190 --> 01:06:41,520

susan was living on the iss when dennis

1456

01:06:45,270 --> 01:06:43,200

tito the first space tourist that you've

1457

01:06:47,270 --> 01:06:45,280

already heard about was preparing to go

1458

01:06:49,270 --> 01:06:47,280

to space there's quite a bit of

1459

01:06:51,029 --> 01:06:49,280

political commentary about it down here

1460

01:06:53,910 --> 01:06:51,039

on earth as to whether it was a good

1461

01:06:56,069 --> 01:06:53,920

idea should the russians be allowed to

1462

01:06:58,150 --> 01:06:56,079

sell seats on the sius

1463

01:07:00,470 --> 01:06:58,160

it was all over the news

1464

01:07:02,069 --> 01:07:00,480

nancy says susan was on station and so

1465

01:07:03,990 --> 01:07:02,079

she didn't have access to the plethora

1466

01:07:05,829 --> 01:07:04,000

of news commentary

1467

01:07:08,069 --> 01:07:05,839

so she asked her how she felt about

1468

01:07:09,910 --> 01:07:08,079

dennis tito coming to space

1469

01:07:10,710 --> 01:07:09,920

nancy says she'll never forget susan

1470

01:07:12,710 --> 01:07:10,720

said

1471

01:07:14,309 --> 01:07:12,720

while i'm living on the space station if

1472

01:07:20,069 --> 01:07:14,319

anybody knocks at the door we're

1473

01:07:25,029 --> 01:07:23,109

sister janet helms hansen reflects

1474

01:07:27,270 --> 01:07:25,039

and this is a quote i just want to

1475

01:07:29,430 --> 01:07:27,280

emphasize how much as a family we enjoy

1476

01:07:31,750 --> 01:07:29,440

each other my parents

1477

01:07:33,670 --> 01:07:31,760

instilled in us at a very young age how

1478

01:07:35,349 --> 01:07:33,680

important family is

1479

01:07:36,950 --> 01:07:35,359

we have all made an effort throughout

1480

01:07:40,150 --> 01:07:36,960

the years to be at susan's many

1481

01:07:42,150 --> 01:07:40,160

accomplishments however on the flip side

1482

01:07:43,990 --> 01:07:42,160

susan has also made efforts to be at our

1483

01:07:46,150 --> 01:07:44,000

accomplishments as well

1484

01:07:47,109 --> 01:07:46,160

she's a wonderful sister and a wonderful

1485

01:07:48,870 --> 01:07:47,119

friend

1486

01:07:50,950 --> 01:07:48,880

there's a saying that you can choose

1487

01:07:51,910 --> 01:07:50,960

your friends but you can't choose your

1488

01:07:53,430 --> 01:07:51,920

family

1489

01:07:56,150 --> 01:07:53,440

i think all of us would choose each

1490

01:07:57,589 --> 01:07:56,160

other as friends and family

1491

01:08:00,870 --> 01:07:57,599

from talking with your family members

1492

01:08:03,029 --> 01:08:00,880

susan one thing is very very clear

1493

01:08:05,750 --> 01:08:03,039

they all brag how amazing a person you

1494

01:08:08,710 --> 01:08:05,760

are most of all how amazing you make

1495

01:08:10,789 --> 01:08:08,720

them all feel they are to you

1496

01:08:12,710 --> 01:08:10,799

i'll just share one more a few more

1497

01:08:15,190 --> 01:08:12,720

thoughts before i sit down from one of

1498

01:08:18,309 --> 01:08:15,200

your dear friends lisa reed who has to

1499

01:08:19,829 --> 01:08:18,319

take credit for training both of us

1500

01:08:21,669 --> 01:08:19,839

lisa is here to celebrate with you and

1501

01:08:23,349 --> 01:08:21,679

your family this very special weekend

1502

01:08:25,669 --> 01:08:23,359

according to lisa

1503

01:08:28,229 --> 01:08:25,679

susan was a standout even as a new ascan

1504

01:08:31,189 --> 01:08:28,239

astronaut candidate that's the term

1505

01:08:33,749 --> 01:08:31,199

and uh and she had this reputation for

1506

01:08:35,749 --> 01:08:33,759

coming into training having done all her

1507

01:08:37,030 --> 01:08:35,759

prep work or homework

1508

01:08:40,229 --> 01:08:37,040

and came to the and i'm going to give

1509

01:08:42,630 --> 01:08:40,239

you some acronyms here okay the sst sms

1510

01:08:45,269 --> 01:08:42,640

ses and mdf that's the

1511

01:08:46,870 --> 01:08:45,279

single system trainer shuttle mission

1512

01:08:51,829 --> 01:08:46,880

simulator

1513

01:08:55,510 --> 01:08:51,839

manipulator development facility did i

1514

01:08:59,430 --> 01:08:57,430

she always came into those sessions

1515

01:09:00,709 --> 01:08:59,440

armed with knowledge and lots of pointed

1516

01:09:02,709 --> 01:09:00,719

questions

1517

01:09:05,349 --> 01:09:02,719

the instructors appreciated her

1518

01:09:07,590 --> 01:09:05,359

preparation but many times

1519

01:09:10,550 --> 01:09:07,600

we were the ones who left with crew

1520

01:09:12,550 --> 01:09:10,560

questions to answer and get back to her

1521

01:09:14,709 --> 01:09:12,560

so it's fair to say that while she was a

1522

01:09:16,390 --> 01:09:14,719

student her instructors ended up

1523

01:09:17,829 --> 01:09:16,400

learning more from all the questions

1524

01:09:20,229 --> 01:09:17,839

they researched

1525

01:09:22,789 --> 01:09:20,239

susan spent years off and on traveling

1526

01:09:24,470 --> 01:09:22,799

to russia to train for iss mission and

1527

01:09:26,789 --> 01:09:24,480

learning russian language

1528

01:09:28,789 --> 01:09:26,799

many people never saw her dedication to

1529

01:09:30,789 --> 01:09:28,799

preparation for this mission

1530

01:09:32,229 --> 01:09:30,799

the expedition 2 training schedule was

1531

01:09:35,189 --> 01:09:32,239

fully packed with little room for

1532

01:09:37,030 --> 01:09:35,199

studying russian she would set the alarm

1533

01:09:39,590 --> 01:09:37,040

and get up at 3 30 to get her russian

1534

01:09:41,749 --> 01:09:39,600

language study time in by the time she

1535

01:09:43,910 --> 01:09:41,759

flew she was pretty fluent

1536

01:09:47,430 --> 01:09:43,920

lisa also relates that susan loved her

1537

01:09:48,390 --> 01:09:47,440

time on the iss but being a rabid x-file

1538

01:09:50,470 --> 01:09:48,400

fan

1539

01:09:52,309 --> 01:09:50,480

she fretted over how she was going to

1540

01:09:55,350 --> 01:09:52,319

get to see the episodes she would be

1541

01:09:57,030 --> 01:09:55,360

missing weekly while on board

1542

01:09:58,229 --> 01:09:57,040

luckily

1543

01:10:00,950 --> 01:09:58,239

for her

1544

01:10:02,790 --> 01:10:00,960

her support team was able to record them

1545

01:10:04,790 --> 01:10:02,800

and when either a shuttle or progress

1546

01:10:07,590 --> 01:10:04,800

mission was there she relished the

1547

01:10:09,750 --> 01:10:07,600

chance to watch all the episodes at once

1548

01:10:12,950 --> 01:10:09,760

and then trade emails with her x-file

1549

01:10:16,790 --> 01:10:12,960

fans friends watching on earth

1550

01:10:18,630 --> 01:10:16,800

this past june january 2011 is as as

1551

01:10:20,630 --> 01:10:18,640

john has already said

1552

01:10:21,510 --> 01:10:20,640

susan helms was promoted to lieutenant

1553

01:10:23,750 --> 01:10:21,520

general

1554

01:10:25,750 --> 01:10:23,760

and assumed duties as commander 14th air

1555

01:10:27,510 --> 01:10:25,760

force air force base command and

1556

01:10:30,870 --> 01:10:27,520

commander joint functional component

1557

01:10:33,430 --> 01:10:30,880

command for space u.s strategic command

1558

01:10:35,189 --> 01:10:33,440

with this milestone in her life

1559

01:10:36,550 --> 01:10:35,199

this daughter of a career air force

1560

01:10:38,790 --> 01:10:36,560

pilot

1561

01:10:40,070 --> 01:10:38,800

lieutenant general helms became the

1562

01:10:42,070 --> 01:10:40,080

first woman

1563

01:10:44,630 --> 01:10:42,080

and astronaut to take command at

1564

01:10:55,750 --> 01:10:44,640

vandenberg air force base ladies and

1565

01:11:00,149 --> 01:10:57,750

ladies and gentlemen it's my honor and

1566

01:11:01,030 --> 01:11:00,159

privilege to present my hero and my

1567

01:11:07,590 --> 01:11:01,040

friend

1568

01:11:37,189 --> 01:11:09,830

and now the presentation of the hall of

1569

01:11:46,709 --> 01:11:40,229

boy charlie you really got to be there

1570

01:11:51,510 --> 01:11:49,110

and i you know i can that you all don't

1571

01:11:53,510 --> 01:11:51,520

know this but there's a television

1572

01:11:55,189 --> 01:11:53,520

that's behind this table up front and we

1573

01:11:56,470 --> 01:11:55,199

can see

1574

01:11:59,110 --> 01:11:56,480

what you're seeing on the forward

1575

01:12:01,750 --> 01:11:59,120

screens and i know my hair is all over

1576

01:12:05,990 --> 01:12:03,669

but then i thought you know in space it

1577

01:12:08,229 --> 01:12:06,000

was all over the place anyway so it's

1578

01:12:10,550 --> 01:12:08,239

probably appropriate i just can't

1579

01:12:12,310 --> 01:12:10,560

control it

1580

01:12:13,990 --> 01:12:12,320

but in any case i'm going to take a page

1581

01:12:16,149 --> 01:12:14,000

from bill's book

1582

01:12:18,550 --> 01:12:16,159

bill said that it takes thousands

1583

01:12:19,590 --> 01:12:18,560

to build a space shuttle program and i'm

1584

01:12:22,790 --> 01:12:19,600

going to tell you that it takes

1585

01:12:25,669 --> 01:12:22,800

thousands to build an astronaut and so

1586

01:12:27,830 --> 01:12:25,679

all i want to do here

1587

01:12:31,350 --> 01:12:27,840

because there's not much more to say is

1588

01:12:33,270 --> 01:12:31,360

to just thank the people that basically

1589

01:12:34,950 --> 01:12:33,280

got me here

1590

01:12:36,550 --> 01:12:34,960

in this point of recognition which by

1591

01:12:38,550 --> 01:12:36,560

the way i'm so very thankful to the

1592

01:12:41,110 --> 01:12:38,560

foundation and the committee for

1593

01:12:43,669 --> 01:12:41,120

um picking me for this it truly is a

1594

01:12:46,149 --> 01:12:43,679

humbling humbling honor and i admire all

1595

01:12:48,310 --> 01:12:46,159

of you so very much

1596

01:12:51,350 --> 01:12:48,320

it is quite surreal to stand up here

1597

01:12:52,870 --> 01:12:51,360

among these giants on the stage and the

1598

01:12:53,990 --> 01:12:52,880

others who are part of them that aren't

1599

01:12:56,630 --> 01:12:54,000

here today

1600

01:12:58,950 --> 01:12:56,640

and uh to be welcomed into this it is uh

1601
01:13:00,709 --> 01:12:58,960
kind of a speechless moment really um

1602
01:13:02,790 --> 01:13:00,719
and i want to thank all of you it's upon

1603
01:13:04,310 --> 01:13:02,800
your shoulders of course that we are all

1604
01:13:06,470 --> 01:13:04,320
standing in our in this younger

1605
01:13:08,390 --> 01:13:06,480
generation i'm a part of but uh we would

1606
01:13:09,910 --> 01:13:08,400
not be where we are today in space

1607
01:13:11,990 --> 01:13:09,920
without all of you doing what you have

1608
01:13:21,189 --> 01:13:12,000
done so please a round of applause for

1609
01:13:25,669 --> 01:13:23,910
and and that was my first thank you i i

1610
01:13:29,430 --> 01:13:25,679
will give you my next one i will name a

1611
01:13:31,510 --> 01:13:29,440
couple of names um i when i was a kid i

1612
01:13:32,709 --> 01:13:31,520
love math and science and i love the air

1613
01:13:33,590 --> 01:13:32,719

force

1614

01:13:37,189 --> 01:13:33,600

and

1615

01:13:40,229 --> 01:13:37,199

of course you're all probably wondering

1616

01:13:42,229 --> 01:13:40,239

joining the air force probably wasn't uh

1617

01:13:43,910 --> 01:13:42,239

it was a no-brainer but the question was

1618

01:13:46,310 --> 01:13:43,920

what about the astronaut part and so i

1619

01:13:47,590 --> 01:13:46,320

would like to thank dick covey who isn't

1620

01:13:49,669 --> 01:13:47,600

here today but

1621

01:13:51,669 --> 01:13:49,679

when you think of who it was that

1622

01:13:53,350 --> 01:13:51,679

probably got me really

1623

01:13:54,950 --> 01:13:53,360

sparked to go ahead and put my

1624

01:13:57,110 --> 01:13:54,960

application in for the program it was

1625

01:13:59,910 --> 01:13:57,120

him he he actually came up to me and

1626
01:14:02,550 --> 01:13:59,920
said why don't you apply to the program

1627
01:14:04,550 --> 01:14:02,560
and that until that moment until he said

1628
01:14:07,430 --> 01:14:04,560
that i didn't ever think i would be

1629
01:14:09,350 --> 01:14:07,440
competitive for the program and so

1630
01:14:11,270 --> 01:14:09,360
because of him i really did get

1631
01:14:13,750 --> 01:14:11,280
incentivized to go ahead and submit my

1632
01:14:17,350 --> 01:14:13,760
application and a little known to me he

1633
01:14:22,149 --> 01:14:19,590
when i when i showed up a few months

1634
01:14:24,310 --> 01:14:22,159
later he was one of 12. he didn't have

1635
01:14:27,189 --> 01:14:24,320
the only vote but charlie you were on

1636
01:14:29,750 --> 01:14:27,199
that selection board too if i recall um

1637
01:14:30,870 --> 01:14:29,760
it was a it was a fun experience but

1638
01:14:32,470 --> 01:14:30,880

but really

1639

01:14:35,350 --> 01:14:32,480

uh dick was the one that sort of got

1640

01:14:37,830 --> 01:14:35,360

this ball rolling and when we showed up

1641

01:14:39,669 --> 01:14:37,840

the senior astronauts by that time they

1642

01:14:40,870 --> 01:14:39,679

were there were a few folks left from

1643

01:14:43,110 --> 01:14:40,880

the apollo program but they were

1644

01:14:45,590 --> 01:14:43,120

primarily the shuttle astronauts at the

1645

01:14:47,430 --> 01:14:45,600

time i got there in 1990 and

1646

01:14:49,110 --> 01:14:47,440

and i have to thank them they set

1647

01:14:52,070 --> 01:14:49,120

basically a standard

1648

01:14:54,870 --> 01:14:52,080

of excellence in all that we do and

1649

01:14:56,630 --> 01:14:54,880

nowhere was that more evident in how

1650

01:14:58,310 --> 01:14:56,640

they tried to mentor us younger

1651
01:15:00,870 --> 01:14:58,320
astronauts as we got ready for the

1652
01:15:03,430 --> 01:15:00,880
shuttle flights then um than to think

1653
01:15:05,350 --> 01:15:03,440
back on my rookie flight with my crew

1654
01:15:07,510 --> 01:15:05,360
members who are all not rookies one of

1655
01:15:09,270 --> 01:15:07,520
whom is here today don mcmonagle

1656
01:15:10,550 --> 01:15:09,280
and if any of you know don mcmonagle

1657
01:15:11,830 --> 01:15:10,560
you'll know that he is a man of

1658
01:15:14,229 --> 01:15:11,840
perfection

1659
01:15:16,070 --> 01:15:14,239
and knows uh what the standard really is

1660
01:15:18,229 --> 01:15:16,080
in order to do this kind of business and

1661
01:15:20,790 --> 01:15:18,239
and so all of the astronauts who are in

1662
01:15:22,790 --> 01:15:20,800
the office mentoring us new folks uh and

1663
01:15:24,870 --> 01:15:22,800

don you and the rest of the folks on 54

1664

01:15:26,709 --> 01:15:24,880

that mentored me on that's what really

1665

01:15:29,430 --> 01:15:26,719

drove me to come into the training team

1666

01:15:31,910 --> 01:15:29,440

and ask all those hard questions was the

1667

01:15:33,350 --> 01:15:31,920

astronauts behind me on my crew saying

1668

01:15:34,950 --> 01:15:33,360

this is the level you have to know

1669

01:15:36,310 --> 01:15:34,960

things and now let's see if you can

1670

01:15:37,270 --> 01:15:36,320

figure out if the training team knows

1671

01:15:40,630 --> 01:15:37,280

them too

1672

01:15:42,790 --> 01:15:40,640

so um it was a it was a great

1673

01:15:44,630 --> 01:15:42,800

a great dynamic to be a part of uh the

1674

01:15:46,229 --> 01:15:44,640

training teams i'll mention them if

1675

01:15:48,550 --> 01:15:46,239

they're part of the thousands it takes

1676

01:15:49,830 --> 01:15:48,560

to build an astronaut um you meant you

1677

01:15:51,270 --> 01:15:49,840

already heard that lisa reed is here

1678

01:15:52,550 --> 01:15:51,280

today there are other folks i'm sure in

1679

01:15:55,510 --> 01:15:52,560

the audience that are here today the

1680

01:15:57,350 --> 01:15:55,520

training teams uh very thankless job

1681

01:15:59,590 --> 01:15:57,360

they're dealing with uh

1682

01:16:01,110 --> 01:15:59,600

the astronaut prima donnas that we are

1683

01:16:02,709 --> 01:16:01,120

everybody thinks it's all about us it's

1684

01:16:05,510 --> 01:16:02,719

not it's about the program and it's

1685

01:16:07,189 --> 01:16:05,520

about the great adventure but the the

1686

01:16:09,430 --> 01:16:07,199

reason that we look so good at what we

1687

01:16:10,470 --> 01:16:09,440

do is because we were trained that way

1688

01:16:12,709 --> 01:16:10,480

and so

1689

01:16:14,790 --> 01:16:12,719

the folks who do all of the payload

1690

01:16:16,310 --> 01:16:14,800

integration all of the work with this to

1691

01:16:17,830 --> 01:16:16,320

interface to the space shuttle all of

1692

01:16:20,470 --> 01:16:17,840

the training for us they're the ones

1693

01:16:23,030 --> 01:16:20,480

that that do build us into what we are

1694

01:16:24,630 --> 01:16:23,040

and um make us look good and so i want

1695

01:16:26,310 --> 01:16:24,640

to thank all of the folks who are part

1696

01:16:28,149 --> 01:16:26,320

of that

1697

01:16:30,550 --> 01:16:28,159

uh i do have to throw in a thank you to

1698

01:16:32,630 --> 01:16:30,560

hoot gibson he's the one that

1699

01:16:33,590 --> 01:16:32,640

really was the impetus of me joining max

1700

01:16:36,229 --> 01:16:33,600

q

1701
01:16:37,510 --> 01:16:36,239
and um

1702
01:16:38,310 --> 01:16:37,520
and so

1703
01:16:40,310 --> 01:16:38,320
who

1704
01:16:42,149 --> 01:16:40,320
now i know why he thought it would raise

1705
01:16:45,510 --> 01:16:42,159
the level of the band and that was what

1706
01:16:47,110 --> 01:16:45,520
mattered but he um he was

1707
01:16:48,630 --> 01:16:47,120
he was definitely with the other max

1708
01:16:50,950 --> 01:16:48,640
cube band members and through including

1709
01:16:52,550 --> 01:16:50,960
carl waltz my dear friend um

1710
01:16:54,790 --> 01:16:52,560
basically they

1711
01:16:56,870 --> 01:16:54,800
they showed what it meant to not only

1712
01:16:59,350 --> 01:16:56,880
work hard but to play hard and so i

1713
01:17:01,110 --> 01:16:59,360

think max q was one of those things in

1714

01:17:02,550 --> 01:17:01,120

the astronaut band where that was our

1715

01:17:05,110 --> 01:17:02,560

way of

1716

01:17:06,790 --> 01:17:05,120

after working so very hard we just got

1717

01:17:08,630 --> 01:17:06,800

together and we played music together

1718

01:17:10,790 --> 01:17:08,640

and that was playing hard too

1719

01:17:14,149 --> 01:17:10,800

and the the byproduct that we were

1720

01:17:16,470 --> 01:17:14,159

actually able to book a few gigs

1721

01:17:17,990 --> 01:17:16,480

was was a neat by-product but when i

1722

01:17:19,510 --> 01:17:18,000

look back on it

1723

01:17:21,669 --> 01:17:19,520

i think that where when you're an

1724

01:17:22,870 --> 01:17:21,679

all-astronaut band

1725

01:17:27,590 --> 01:17:22,880

everybody's going to tell you you're

1726

01:17:30,950 --> 01:17:28,790

so i

1727

01:17:33,110 --> 01:17:30,960

i always wondered about that after but

1728

01:17:35,830 --> 01:17:33,120

uh it was a great it was a great thing

1729

01:17:37,990 --> 01:17:35,840

to be a part of and um and of course who

1730

01:17:40,229 --> 01:17:38,000

had handed that as well as the others

1731

01:17:42,070 --> 01:17:40,239

and and then i i do have to mention bob

1732

01:17:44,470 --> 01:17:42,080

cabana because after flying several

1733

01:17:46,390 --> 01:17:44,480

flights you know the office does the

1734

01:17:49,270 --> 01:17:46,400

flight assignments and then this

1735

01:17:52,630 --> 01:17:49,280

this moment came where i was no longer a

1736

01:17:54,709 --> 01:17:52,640

part of a mature program at that point

1737

01:17:57,430 --> 01:17:54,719

in the 90s called the space shuttle

1738

01:17:59,350 --> 01:17:57,440

but me and a few others were basically

1739

01:18:01,350 --> 01:17:59,360

identified by bob cabana who was chief

1740

01:18:03,590 --> 01:18:01,360

of the office of that time to go

1741

01:18:06,149 --> 01:18:03,600

do what astronauts need to do at times

1742

01:18:07,430 --> 01:18:06,159

which is to go and start up a new space

1743

01:18:09,510 --> 01:18:07,440

program

1744

01:18:11,189 --> 01:18:09,520

a lot of the folks you see here

1745

01:18:14,070 --> 01:18:11,199

they were part of the early days of the

1746

01:18:15,590 --> 01:18:14,080

shuttle program and the moon program

1747

01:18:17,830 --> 01:18:15,600

and in

1748

01:18:19,830 --> 01:18:17,840

in scott's case even earlier

1749

01:18:21,510 --> 01:18:19,840

and and me and a few others were

1750

01:18:24,709 --> 01:18:21,520

selected to be a part of the space

1751

01:18:26,950 --> 01:18:24,719

station program and bob made that choice

1752

01:18:28,790 --> 01:18:26,960

and at the time we didn't know it but

1753

01:18:30,630 --> 01:18:28,800

i've told him this since it was one of

1754

01:18:32,310 --> 01:18:30,640

the most amazing things i've ever had

1755

01:18:35,350 --> 01:18:32,320

the chance to do which was to be a part

1756

01:18:37,189 --> 01:18:35,360

of a space outpost in space

1757

01:18:39,669 --> 01:18:37,199

that truly was a human adventure that

1758

01:18:41,910 --> 01:18:39,679

has no equal

1759

01:18:44,470 --> 01:18:41,920

and i want to thank bob for making that

1760

01:18:47,030 --> 01:18:44,480

that decision to put me and a few others

1761

01:18:48,630 --> 01:18:47,040

in that position we worked hard

1762

01:18:50,310 --> 01:18:48,640

to get that program stood up and

1763

01:18:52,070 --> 01:18:50,320

operating in the right way and i think

1764

01:18:53,030 --> 01:18:52,080

we succeeded

1765

01:18:57,030 --> 01:18:53,040

but

1766

01:18:58,790 --> 01:18:57,040

and that's those folks that i um

1767

01:19:00,870 --> 01:18:58,800

basically flew with all of the crew

1768

01:19:03,110 --> 01:19:00,880

members that i flew with uh i drew more

1769

01:19:05,430 --> 01:19:03,120

from them than they ever drew from me

1770

01:19:07,430 --> 01:19:05,440

and uh and and frankly i think the

1771

01:19:10,550 --> 01:19:07,440

reason i'm standing here before you

1772

01:19:12,790 --> 01:19:10,560

right now is because of all the the

1773

01:19:14,950 --> 01:19:12,800

love and support of the fellow members

1774

01:19:17,669 --> 01:19:14,960

of my flights that i flew with and the

1775

01:19:18,390 --> 01:19:17,679

teams that basically made us all become

1776

01:19:22,470 --> 01:19:18,400

as

1777

01:19:23,750 --> 01:19:22,480

and then there's of course one obvious

1778

01:19:25,990 --> 01:19:23,760

thank you i haven't mentioned yet and

1779

01:19:28,070 --> 01:19:26,000

that's my family um

1780

01:19:31,189 --> 01:19:28,080

i'm debating whether to thank now thank

1781

01:19:33,510 --> 01:19:31,199

them now after what charlie said but

1782

01:19:35,270 --> 01:19:33,520

but the bottom line is every everything

1783

01:19:36,470 --> 01:19:35,280

that they've said

1784

01:19:38,870 --> 01:19:36,480

has been

1785

01:19:40,630 --> 01:19:38,880

um bringing me to tears just thinking

1786

01:19:42,950 --> 01:19:40,640

about it but it is true what he said

1787

01:19:45,189 --> 01:19:42,960

certainly which is that my family means

1788

01:19:46,229 --> 01:19:45,199

everything to me my mom my dad my three

1789

01:19:49,430 --> 01:19:46,239

sisters

1790

01:19:52,310 --> 01:19:49,440

and all of my extended family and um

1791

01:19:53,750 --> 01:19:52,320

and that when i was on space station

1792

01:19:55,910 --> 01:19:53,760

those many months

1793

01:19:57,750 --> 01:19:55,920

and i remember thinking i've got to be

1794

01:19:59,430 --> 01:19:57,760

in one of the most amazing places a

1795

01:20:01,510 --> 01:19:59,440

human being can ever be

1796

01:20:03,750 --> 01:20:01,520

in this really grand adventure uh

1797

01:20:05,189 --> 01:20:03,760

looking at earth which is so very very

1798

01:20:06,709 --> 01:20:05,199

beautiful

1799

01:20:09,110 --> 01:20:06,719

from afar

1800

01:20:11,590 --> 01:20:09,120

it really i it hit me at that point that

1801

01:20:13,669 --> 01:20:11,600

if you don't have family

1802

01:20:15,990 --> 01:20:13,679

and keep tied to family it really

1803

01:20:17,590 --> 01:20:16,000

doesn't mean all that much and so

1804

01:20:19,910 --> 01:20:17,600

i want to thank my family always for

1805

01:20:22,550 --> 01:20:19,920

being there and supporting me because

1806

01:20:25,669 --> 01:20:22,560

truly uh i'm who i am because of who you

1807

01:20:28,070 --> 01:20:25,679

are so thank you very much and again

1808

01:20:30,629 --> 01:20:28,080

thanks very much to the committee and

1809

01:20:34,070 --> 01:20:30,639

the foundation for honoring me it truly

1810

01:20:36,149 --> 01:20:34,080

is a humbling moment for me and um

1811

01:20:38,310 --> 01:20:36,159

and i nothing in the bottom of my heart

1812

01:20:40,070 --> 01:20:38,320

nothing will will surely be able to be

1813

01:20:46,629 --> 01:20:40,080

said that that tells you how much this

1814

01:20:51,030 --> 01:20:48,709

susan helms and welcome to the united

1815

01:20:52,709 --> 01:20:51,040

states astronaut hall of fame

1816

01:20:54,229 --> 01:20:52,719

ladies and gentlemen i am proud to

1817

01:20:55,830 --> 01:20:54,239

present to you the united states

1818

01:20:59,830 --> 01:20:55,840

astronaut hall of fame

1819

01:21:15,910 --> 01:20:59,840

class of 2011 carol bobco and susan

1820

01:21:42,470 --> 01:21:18,229

and now all the members of the united

1821

01:21:42,480 --> 01:21:54,070

it's your photo op time

1822

01:21:57,830 --> 01:21:55,669

as you're taking your pictures it has

1823

01:21:59,750 --> 01:21:57,840

been my pleasure to be with you today

1824

01:22:02,149 --> 01:21:59,760

and on behalf of the kennedy space

1825

01:22:04,550 --> 01:22:02,159

center visitor complex

1826

01:22:07,030 --> 01:22:04,560

and the astronaut scholarship foundation

1827

01:22:09,189 --> 01:22:07,040

thank you for joining us for this

1828

01:22:11,270 --> 01:22:09,199

historic ceremony

1829

01:22:12,950 --> 01:22:11,280

please remain standing as the hall of