



U.S. ASTRONAUT HALL OF FAME 2012 INDUCTEES

ASTRONAUT
SCHOLARSHIP
FOUNDATION
MEMBER OF THE NATIONAL ACADEMY OF SCIENCES



Kennedy
Space
Center
VISITOR COMPLEX

FRANKLIN
CHANG DIAZ

KEVIN
CHILTON

CHARLIE
PRECOURT



1
00:00:22,710 --> 00:00:19,670
gentlemen thank you for joining us for

2
00:00:25,589 --> 00:00:22,720
the us astronaut hall of fame induction

3
00:00:26,790 --> 00:00:25,599
ceremony honoring our nation's space

4
00:00:28,550 --> 00:00:26,800
heroes

5
00:00:31,830 --> 00:00:28,560
please rise for the presentation of

6
00:00:34,069 --> 00:00:31,840
colors by boy scout troupe 369 from

7
00:00:36,549 --> 00:00:34,079
merritt island florida followed by the

8
00:01:18,149 --> 00:00:36,559
national anthem performed by jennifer

9
00:01:26,230 --> 00:01:22,149
oh say can you see

10
00:01:27,469 --> 00:01:26,240
by the dawn's early light

11
00:01:29,390 --> 00:01:27,479
what so

12
00:01:32,950 --> 00:01:29,400
proudly we

13
00:01:35,830 --> 00:01:32,960

hailed at the twilight's

14

00:01:40,550 --> 00:01:35,840

last gleaming

15

00:01:42,350 --> 00:01:40,560

whose broad stripes and bright stars

16

00:01:45,030 --> 00:01:42,360

through the

17

00:01:46,429 --> 00:01:45,040

perilous fight

18

00:01:48,350 --> 00:01:46,439

or the

19

00:01:51,149 --> 00:01:48,360

ramparts we

20

00:02:04,469 --> 00:01:51,159

watched were so

21

00:02:09,350 --> 00:02:06,550

gave proof

22

00:02:14,869 --> 00:02:09,360

through the night

23

00:02:14,879 --> 00:02:31,270

oh say does that star spangled

24

00:03:01,270 --> 00:02:34,830

and the home of

25

00:03:01,280 --> 00:03:17,670

she's

26
00:03:22,470 --> 00:03:19,670
ladies and gentlemen please welcome the

27
00:03:37,270 --> 00:03:22,480
chief operating officer of kennedy space

28
00:03:41,270 --> 00:03:39,430
thank you everyone be seated uh jennifer

29
00:03:43,270 --> 00:03:41,280
thank you so much you always do such an

30
00:03:45,830 --> 00:03:43,280
outstanding job for us for this event we

31
00:03:47,190 --> 00:03:45,840
appreciate it

32
00:03:48,630 --> 00:03:47,200
everyone

33
00:03:49,830 --> 00:03:48,640
to the kennedy space center visitor

34
00:03:52,550 --> 00:03:49,840
complex

35
00:03:53,990 --> 00:03:52,560
on behalf of our 55 000 employees

36
00:03:56,869 --> 00:03:54,000
including those here at the visitor

37
00:03:58,789 --> 00:03:56,879
complex of delaware north worldwide i'd

38
00:04:00,869 --> 00:03:58,799

like to welcome you today

39

00:04:02,789 --> 00:04:00,879

to the induction ceremony celebrating

40

00:04:05,190 --> 00:04:02,799

the 11th class

41

00:04:07,030 --> 00:04:05,200

of shuttle astronauts into the u.s hall

42

00:04:09,350 --> 00:04:07,040

of fame

43

00:04:10,630 --> 00:04:09,360

it is a privilege to host this induction

44

00:04:13,429 --> 00:04:10,640

ceremony

45

00:04:17,110 --> 00:04:13,439

and to be part of a momentous occasion

46

00:04:20,229 --> 00:04:17,120

where so many astronaut heroes gather

47

00:04:22,629 --> 00:04:20,239

to recognize and welcome a chosen few

48

00:04:24,629 --> 00:04:22,639

into the ranks of this elite group of

49

00:04:27,350 --> 00:04:24,639

space explorers

50

00:04:28,790 --> 00:04:27,360

this has been an emotional and exciting

51
00:04:31,749 --> 00:04:28,800
year for us

52
00:04:33,350 --> 00:04:31,759
we watched the last shuttle launches

53
00:04:35,749 --> 00:04:33,360
last two or three here

54
00:04:36,629 --> 00:04:35,759
we watched the 30-year program come to

55
00:04:39,510 --> 00:04:36,639
an end

56
00:04:41,670 --> 00:04:39,520
we shed a few tears this discovery the

57
00:04:43,430 --> 00:04:41,680
first of our shuttles yes we'll always

58
00:04:45,030 --> 00:04:43,440
feel like they belong here no matter

59
00:04:48,070 --> 00:04:45,040
where their homes are

60
00:04:50,390 --> 00:04:48,080
made her sunrise departure on april 7th

61
00:04:52,390 --> 00:04:50,400
aboard a boeing 747

62
00:04:54,310 --> 00:04:52,400
circling the rocket garden

63
00:04:55,189 --> 00:04:54,320

in his final farewell

64

00:04:57,510 --> 00:04:55,199

soon

65

00:04:59,590 --> 00:04:57,520

endeavor will follow her

66

00:05:01,990 --> 00:04:59,600

but with those difficult goodbyes comes

67

00:05:03,110 --> 00:05:02,000

an even bigger welcome home as we

68

00:05:05,029 --> 00:05:03,120

prepare

69

00:05:07,670 --> 00:05:05,039

just across the visitor complex right

70

00:05:09,270 --> 00:05:07,680

over here to give atlantis the most

71

00:05:10,790 --> 00:05:09,280

incredible home

72

00:05:13,510 --> 00:05:10,800

other than space

73

00:05:15,270 --> 00:05:13,520

that an orbiter has ever known

74

00:05:17,830 --> 00:05:15,280

work is well underway

75

00:05:19,749 --> 00:05:17,840

and we are on track for our july 2013

76

00:05:21,029 --> 00:05:19,759

opening date for atlanta's

77

00:05:23,990 --> 00:05:21,039

state-of-the-art

78

00:05:26,390 --> 00:05:24,000

100 million dollar 65 thousand square

79

00:05:28,469 --> 00:05:26,400

foot attraction

80

00:05:29,990 --> 00:05:28,479

we look forward to telling the story of

81

00:05:31,670 --> 00:05:30,000

the space shuttle

82

00:05:35,189 --> 00:05:31,680

more importantly the thousands that

83

00:05:37,510 --> 00:05:35,199

worked on her and those that flew her

84

00:05:39,189 --> 00:05:37,520

as if that were not exciting enough even

85

00:05:41,909 --> 00:05:39,199

more changes are underway here at the

86

00:05:44,390 --> 00:05:41,919

visitor complex to completely change our

87

00:05:46,629 --> 00:05:44,400

guest experience for all of you

88

00:05:48,790 --> 00:05:46,639

as part of our 10-year master plan we're

89

00:05:51,270 --> 00:05:48,800

building a brand new entrance designed

90

00:05:52,870 --> 00:05:51,280

to build excitement anticipation of what

91

00:05:54,950 --> 00:05:52,880

you'll experience

92

00:05:56,629 --> 00:05:54,960

opening this fall the entrance will

93

00:05:59,430 --> 00:05:56,639

bring guests in through the rocket

94

00:06:00,309 --> 00:05:59,440

garden and will be guided along a vapor

95

00:06:02,629 --> 00:06:00,319

trail

96

00:06:04,790 --> 00:06:02,639

on a clear and purposeful path through

97

00:06:06,550 --> 00:06:04,800

the visitor complex and onto the

98

00:06:08,070 --> 00:06:06,560

atlantic's exhibit when it opens next

99

00:06:09,749 --> 00:06:08,080

year

100

00:06:11,110 --> 00:06:09,759

i would like to take a moment to

101
00:06:12,550 --> 00:06:11,120
acknowledge a few people that will be

102
00:06:14,070 --> 00:06:12,560
with us today

103
00:06:16,710 --> 00:06:14,080
among those kennedy space center

104
00:06:18,950 --> 00:06:16,720
director robert cabana who will join us

105
00:06:20,390 --> 00:06:18,960
shortly with hall of fame astronauts as

106
00:06:22,070 --> 00:06:20,400
well as astronauts

107
00:06:24,309 --> 00:06:22,080
rheya satan

108
00:06:25,830 --> 00:06:24,319
senator senior florida state senator

109
00:06:26,870 --> 00:06:25,840
bill nelson who are in the audience

110
00:06:28,550 --> 00:06:26,880
today

111
00:06:30,950 --> 00:06:28,560
and i would also like to and more

112
00:06:33,029 --> 00:06:30,960
importantly uh recognize the important

113
00:06:35,510 --> 00:06:33,039

and significant contribution to today's

114

00:06:36,790 --> 00:06:35,520

ceremony by the astronaut scholarship

115

00:06:39,189 --> 00:06:36,800

foundation

116

00:06:41,670 --> 00:06:39,199

led by their board of directors chairman

117

00:06:44,390 --> 00:06:41,680

charlie duke their vice chairman dan

118

00:06:45,430 --> 00:06:44,400

brandenstein and executive director

119

00:06:55,029 --> 00:06:45,440

leblanc

120

00:06:59,510 --> 00:06:56,629

and now i would like to welcome to the

121

00:07:02,629 --> 00:06:59,520

stage today's master of ceremonies

122

00:07:04,790 --> 00:07:02,639

he is cnn's miami correspondents

123

00:07:06,950 --> 00:07:04,800

responsible for cnn's news coverage in

124

00:07:10,710 --> 00:07:06,960

florida and the caribbean

125

00:07:12,790 --> 00:07:10,720

since joining cnn in 1981 he has covered

126
00:07:14,230 --> 00:07:12,800
every major hurricane to hit florida and

127
00:07:15,670 --> 00:07:14,240
the gulf coast

128
00:07:17,830 --> 00:07:15,680
he has also

129
00:07:20,550 --> 00:07:17,840
cnn's principal correspondent for

130
00:07:23,909 --> 00:07:20,560
coverage of the u.s space program having

131
00:07:25,589 --> 00:07:23,919
covered events such as john glenn's 1998

132
00:07:28,950 --> 00:07:25,599
return to space

133
00:07:31,430 --> 00:07:28,960
the mars pathfinder mission the 2005

134
00:07:33,270 --> 00:07:31,440
return to flight mission and numerous

135
00:07:35,510 --> 00:07:33,280
other shuttle launches

136
00:07:38,070 --> 00:07:35,520
he has won two emmy awards and has been

137
00:07:39,510 --> 00:07:38,080
honored numerous time for his work

138
00:07:48,950 --> 00:07:39,520

ladies and gentlemen please join me and

139

00:07:53,029 --> 00:07:51,029

good afternoon everyone wow it's a great

140

00:07:55,189 --> 00:07:53,039

crowd there's always a great crowd here

141

00:07:57,830 --> 00:07:55,199

i've had the opportunity to

142

00:07:59,909 --> 00:07:57,840

be here to emcee this event on numerous

143

00:08:01,350 --> 00:07:59,919

occasions and it is terrific and thanks

144

00:08:03,589 --> 00:08:01,360

bill for the the intro you didn't tell

145

00:08:05,189 --> 00:08:03,599

anybody about my new job did you

146

00:08:06,070 --> 00:08:05,199

you didn't tell them

147

00:08:07,830 --> 00:08:06,080

no

148

00:08:09,110 --> 00:08:07,840

see what's going to happen is once

149

00:08:11,110 --> 00:08:09,120

they're finished a lot of you who are

150

00:08:13,350 --> 00:08:11,120

going to come back here and get to go

151
00:08:14,950 --> 00:08:13,360
through and the new exhibit well the

152
00:08:16,950 --> 00:08:14,960
first person you're gonna see is gonna

153
00:08:19,110 --> 00:08:16,960
be me that's when i leave cnn my new i'm

154
00:08:21,189 --> 00:08:19,120
gonna be the greeter outside the space

155
00:08:22,869 --> 00:08:21,199
shuttle and i'll take you in and you

156
00:08:24,309 --> 00:08:22,879
know show you a little bit of this and

157
00:08:25,830 --> 00:08:24,319
that whatever i know and that then i'll

158
00:08:27,189 --> 00:08:25,840
let the real experts take over and give

159
00:08:28,950 --> 00:08:27,199
you the real story

160
00:08:31,029 --> 00:08:28,960
so so look for me when you come back

161
00:08:33,350 --> 00:08:31,039
that's going to be my next job

162
00:08:35,509 --> 00:08:33,360
and i am honored again to be the master

163
00:08:37,509 --> 00:08:35,519

of ceremonies here i think i've been

164

00:08:39,750 --> 00:08:37,519

here at least 10 times to do one of

165

00:08:41,829 --> 00:08:39,760

these events it's spectacular just a few

166

00:08:45,670 --> 00:08:41,839

months ago i was here to celebrate the

167

00:08:48,150 --> 00:08:45,680

50th anniversary of americans in orbit

168

00:08:50,070 --> 00:08:48,160

uh when we honored uh the the mercury

169

00:08:52,870 --> 00:08:50,080

the mercury astronauts and i'll tell you

170

00:08:55,110 --> 00:08:52,880

what this place feels like home to me

171

00:08:57,509 --> 00:08:55,120

after all of these years and i certainly

172

00:09:00,230 --> 00:08:57,519

have some tremendous memories before

173

00:09:03,110 --> 00:09:00,240

discovery's last flight into space i had

174

00:09:06,150 --> 00:09:03,120

a wonderful opportunity to fly with the

175

00:09:08,389 --> 00:09:06,160

commander steve lindsey uh in

176

00:09:10,310 --> 00:09:08,399

in the sta the shuttle training aircraft

177

00:09:12,310 --> 00:09:10,320

and doing the touch and goes out at the

178

00:09:15,190 --> 00:09:12,320

the runway as they practiced what it's

179

00:09:16,710 --> 00:09:15,200

like to come back to earth and i didn't

180

00:09:21,590 --> 00:09:16,720

get sick

181

00:09:23,829 --> 00:09:21,600

cabana who of course is the center

182

00:09:26,070 --> 00:09:23,839

director here for a documentary that we

183

00:09:28,630 --> 00:09:26,080

were doing on the shuttle program bob

184

00:09:31,990 --> 00:09:28,640

was gracious enough to uh to take me

185

00:09:33,190 --> 00:09:32,000

inside of the shuttle discovery and uh

186

00:09:34,790 --> 00:09:33,200

he actually let me sit in the

187

00:09:36,389 --> 00:09:34,800

commander's seat too which was kind of

188

00:09:38,389 --> 00:09:36,399

nice of him so

189

00:09:41,269 --> 00:09:38,399

another special special treat that that

190

00:09:44,630 --> 00:09:41,279

i've had so a lot of tremendous memories

191

00:09:46,790 --> 00:09:44,640

here uh thanks to the glorious glorious

192

00:09:49,670 --> 00:09:46,800

30-year history of the space shuttle

193

00:09:52,550 --> 00:09:49,680

program and now it is my privilege to

194

00:09:54,870 --> 00:09:52,560

introduce to you the attending members

195

00:09:59,350 --> 00:09:54,880

of the united states astronaut hall of

196

00:10:04,870 --> 00:10:02,230

he piloted it gemini 7 commanded germany

197

00:10:07,190 --> 00:10:04,880

12 orbited the moon on apollo 8 and

198

00:10:10,470 --> 00:10:07,200

commanded the successful failure that

199

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

was apollo 13. aboard apollo 8 he along

200

00:10:15,110 --> 00:10:12,240

with crewmates frank borman and bill

201
00:10:17,670 --> 00:10:15,120
anders captivated a television audience

202
00:10:19,350 --> 00:10:17,680
of millions on christmas eve by beaming

203
00:10:21,430 --> 00:10:19,360
back pictures of the rugged lunar

204
00:10:22,550 --> 00:10:21,440
surface while reading from the book of

205
00:10:24,870 --> 00:10:22,560
genesis

206
00:10:26,949 --> 00:10:24,880
his near miss aboard apollo 13 was the

207
00:10:29,190 --> 00:10:26,959
subject of a blockbuster movie starring

208
00:10:31,990 --> 00:10:29,200
tom hanks he now serves as astronaut

209
00:10:36,150 --> 00:10:32,000
scholarship foundation chairman emeritus

210
00:10:41,430 --> 00:10:38,949
he piloted gemini 6 and commanded gemini

211
00:10:43,750 --> 00:10:41,440
9 in apollo 10 for which he was cited in

212
00:10:47,350 --> 00:10:43,760
the guinness book of world records for

213
00:10:49,110 --> 00:10:47,360

highest speed ever attained by man

214

00:10:51,910 --> 00:10:49,120
during the apollo 10 re-entry his

215

00:10:54,310 --> 00:10:51,920
spacecraft detained 24

216

00:10:56,630 --> 00:10:54,320
791

217

00:10:58,470 --> 00:10:56,640
statute miles per hour

218

00:11:00,230 --> 00:10:58,480
he logged his fourth space flight as

219

00:11:02,550 --> 00:11:00,240
apollo commander of the apollo soyuz

220

00:11:05,030 --> 00:11:02,560
test project culminating in the historic

221

00:11:07,990 --> 00:11:05,040
first meeting in space between american

222

00:11:09,910 --> 00:11:08,000
astronauts and soviet cosmonauts he

223

00:11:12,389 --> 00:11:09,920
served as a defense advisor to ronald

224

00:11:14,870 --> 00:11:12,399
reagan during the presidential campaign

225

00:11:20,230 --> 00:11:14,880
and has since served on numerous nasa

226

00:11:26,150 --> 00:11:23,030

selected as an astronaut by nasa way

227

00:11:28,870 --> 00:11:26,160

back in 1963 he made his first space

228

00:11:30,550 --> 00:11:28,880

flight as pilot on the three-day gemini

229

00:11:33,750 --> 00:11:30,560

11 mission during which he left the

230

00:11:34,910 --> 00:11:33,760

spacecraft for a 44-minute space walk in

231

00:11:39,269 --> 00:11:34,920

november

232

00:11:41,750 --> 00:11:39,279

1969 he circled 60 miles above the moon

233

00:11:45,509 --> 00:11:41,760

while his apollo 12 crewmates walked on

234

00:11:48,230 --> 00:11:45,519

its surface he retired from nasa in 1972

235

00:11:50,550 --> 00:11:48,240

to become executive vice president of

236

00:11:51,990 --> 00:11:50,560

those new orleans saints professional

237

00:11:57,430 --> 00:11:52,000

football team

238

00:12:02,230 --> 00:11:59,670

he served as lunar module pilot aboard

239

00:12:04,949 --> 00:12:02,240

the first manned mission of the apollo

240

00:12:06,870 --> 00:12:04,959

program the 11-day apollo 7 mission he

241

00:12:09,430 --> 00:12:06,880

later served as chief of the skylab

242

00:12:11,590 --> 00:12:09,440

branch of the flight crew directorate

243

00:12:14,629 --> 00:12:11,600

overseeing components of the united

244

00:12:16,710 --> 00:12:14,639

states first space station today he

245

00:12:19,190 --> 00:12:16,720

shares his thoughts on space flight

246

00:12:22,069 --> 00:12:19,200

through periodic columns lectures and

247

00:12:27,190 --> 00:12:22,079

his book the all-american boys walt

248

00:12:32,150 --> 00:12:29,509

he served as lunar module pilot for

249

00:12:34,550 --> 00:12:32,160

apollo 9 and as backup commander of the

250

00:12:36,230 --> 00:12:34,560

first sky lab mission he developed the

251
00:12:39,110 --> 00:12:36,240
hardware and procedures used by the

252
00:12:41,190 --> 00:12:39,120
first crew to perform critical in-flight

253
00:12:43,430 --> 00:12:41,200
repairs he is the founder and past

254
00:12:45,990 --> 00:12:43,440
president of the association of space

255
00:12:48,150 --> 00:12:46,000
explorers co-founder of the b612

256
00:12:51,350 --> 00:12:48,160
foundation a group that aims to defend

257
00:12:53,910 --> 00:12:51,360
earth from asteroid impacts in 2010 he

258
00:12:56,470 --> 00:12:53,920
served as co-chair of the nasa advisory

259
00:13:00,470 --> 00:12:56,480
council ad hoc task force on planetary

260
00:13:06,710 --> 00:13:02,790
he was selected by nasa for its fifth

261
00:13:09,509 --> 00:13:06,720
class of astronauts in april 1966 in

262
00:13:12,069 --> 00:13:09,519
1970 he was a member of the apollo 13

263
00:13:14,550 --> 00:13:12,079

crew that struggled to return to earth

264

00:13:17,190 --> 00:13:14,560

after an oxygen tank explosion aborted

265

00:13:19,750 --> 00:13:17,200

the mission as it approached the moon he

266

00:13:22,710 --> 00:13:19,760

served as backup lunar module pilots for

267

00:13:26,150 --> 00:13:22,720

apollo 8 and 11 and backup commander for

268

00:13:28,710 --> 00:13:26,160

apollo 16. he later commanded the space

269

00:13:31,990 --> 00:13:28,720

shuttle enterprise approach and landing

270

00:13:37,350 --> 00:13:32,000

test flights in 1977.

271

00:13:42,629 --> 00:13:39,509

he was the sixth person to step foot on

272

00:13:44,870 --> 00:13:42,639

the moon during apollo 14 nasa's third

273

00:13:47,110 --> 00:13:44,880

moon landing he and the late alan

274

00:13:50,710 --> 00:13:47,120

shepard explored the moon's hilly

275

00:13:53,829 --> 00:13:50,720

fraumora region in 1971 on the first

276

00:13:56,150 --> 00:13:53,839

mission devoted to lunar science they

277

00:14:00,310 --> 00:13:56,160

established the record for the longest

278

00:14:02,389 --> 00:14:00,320

on foot traverse exceeding 41 kilometers

279

00:14:04,550 --> 00:14:02,399

he retired from nasa and founded the

280

00:14:06,150 --> 00:14:04,560

institute for noetic sciences in an

281

00:14:08,150 --> 00:14:06,160

effort to integrate scientific

282

00:14:09,430 --> 00:14:08,160

disciplines in the study of human

283

00:14:12,310 --> 00:14:09,440

consciousness

284

00:14:17,030 --> 00:14:12,320

he was a 2005 nominee for the nobel

285

00:14:22,790 --> 00:14:19,110

he became the tenth person to walk on

286

00:14:24,949 --> 00:14:22,800

the moon aboard apollo 16 in 1972

287

00:14:27,509 --> 00:14:24,959

during three outside excursions over

288

00:14:31,030 --> 00:14:27,519

three days duke and fellow astronaut

289

00:14:34,310 --> 00:14:31,040

john young drove a lunar rover 16 miles

290

00:14:36,629 --> 00:14:34,320

and collected 213 pounds of lunar rock

291

00:14:39,110 --> 00:14:36,639

and soil and also claimed the record for

292

00:14:41,509 --> 00:14:39,120

the longest lunar space walk today is

293

00:14:46,310 --> 00:14:41,519

president of charlie duke enterprises

294

00:14:51,509 --> 00:14:49,350

he worked for 59 days in orbit as a

295

00:14:54,150 --> 00:14:51,519

member of the second skylab space

296

00:14:56,710 --> 00:14:54,160

station crew in 1973

297

00:15:00,949 --> 00:14:56,720

spending 11 hours on two spacewalks

298

00:15:03,030 --> 00:15:00,959

outside of skylab in 1982 he commanded

299

00:15:05,350 --> 00:15:03,040

the third orbital test flight of space

300

00:15:08,310 --> 00:15:05,360

shuttle columbia the only mission to

301

00:15:10,870 --> 00:15:08,320

land at white sands new mexico he

302

00:15:18,150 --> 00:15:10,880

retired from nasa and the marine corps

303

00:15:23,910 --> 00:15:20,750

he also lived in space for 59 days in

304

00:15:25,590 --> 00:15:23,920

1973 aboard the skylab space station

305

00:15:28,550 --> 00:15:25,600

during which he conducted three

306

00:15:30,870 --> 00:15:28,560

spacewalks to exchange film and direct a

307

00:15:33,910 --> 00:15:30,880

sun shield to cool the orbiting

308

00:15:36,790 --> 00:15:33,920

laboratory ten years later he returned

309

00:15:39,590 --> 00:15:36,800

to space aboard columbia on the first

310

00:15:41,829 --> 00:15:39,600

flight of the space lab laboratory

311

00:15:44,069 --> 00:15:41,839

currently is an adjunct professor at the

312

00:15:47,829 --> 00:15:44,079

university of alabama in huntsville owen

313

00:15:53,189 --> 00:15:49,990

selected as one of the first science

314

00:15:56,150 --> 00:15:53,199

astronauts by nasa in june 1965

315

00:15:58,389 --> 00:15:56,160

he was the science pilot of sky lab four

316

00:16:01,749 --> 00:15:58,399

while aboard this orbital space station

317

00:16:05,350 --> 00:16:01,759

for a record 84 days he was the crewman

318

00:16:08,310 --> 00:16:05,360

primarily responsible for the 338 hours

319

00:16:10,710 --> 00:16:08,320

of apollo telescope mount operations

320

00:16:13,670 --> 00:16:10,720

making extensive operation of the sun ed

321

00:16:17,509 --> 00:16:15,430

he was the pilot of the first human

322

00:16:20,150 --> 00:16:17,519

space flight mission managed jointly by

323

00:16:22,870 --> 00:16:20,160

two nations the united states and russia

324

00:16:25,030 --> 00:16:22,880

the apollo soyuz test project he then

325

00:16:27,350 --> 00:16:25,040

commanded three space shuttle flights

326

00:16:28,749 --> 00:16:27,360

including the first mission labeled as

327

00:16:32,069 --> 00:16:28,759

operational

328

00:16:34,389 --> 00:16:32,079

sts-5 he has retired from nasa's dryden

329

00:16:36,790 --> 00:16:34,399

flight research center as associate

330

00:16:43,509 --> 00:16:36,800

center director for programs

331

00:16:47,430 --> 00:16:45,509

he piloted the maiden flight of the

332

00:16:48,829 --> 00:16:47,440

space shuttle program on the orbiter

333

00:16:51,990 --> 00:16:48,839

columbia in

334

00:16:53,910 --> 00:16:52,000

1981. he then commanded three additional

335

00:16:56,230 --> 00:16:53,920

shuttle missions including the first

336

00:16:59,670 --> 00:16:56,240

mission to capture repair and release a

337

00:17:01,670 --> 00:16:59,680

satellite in the early 1990s he served

338

00:17:04,150 --> 00:17:01,680

as director of nasa's kennedy space

339

00:17:07,110 --> 00:17:04,160

center and later served as president of

340

00:17:09,829 --> 00:17:07,120

fireclaw aerospace group in utah bob

341

00:17:13,189 --> 00:17:11,669

he was the commander of one of the two

342

00:17:15,029 --> 00:17:13,199

crews that flew the initial space

343

00:17:17,909 --> 00:17:15,039

shuttle enterprise approach in landing

344

00:17:20,150 --> 00:17:17,919

test flights in 1981 he commanded the

345

00:17:22,230 --> 00:17:20,160

second orbital test flight of the space

346

00:17:25,909 --> 00:17:22,240

shuttle columbia becoming the first and

347

00:17:29,590 --> 00:17:25,919

only pilot to manually fly an aerospace

348

00:17:31,190 --> 00:17:29,600

vehicle from mach 25 to landing

349

00:17:38,310 --> 00:17:31,200

he was commander of the space shuttle

350

00:17:42,870 --> 00:17:40,630

he piloted the fourth and final test

351
00:17:44,710 --> 00:17:42,880
flight of space shuttle columbia before

352
00:17:47,510 --> 00:17:44,720
commanding discovery on its maiden

353
00:17:49,830 --> 00:17:47,520
voyage in 1984.

354
00:17:51,590 --> 00:17:49,840
his last assignment was on challenger

355
00:17:54,150 --> 00:17:51,600
sts-61a

356
00:17:56,390 --> 00:17:54,160
the first space lab science mission

357
00:17:59,110 --> 00:17:56,400
planned and controlled by a foreign

358
00:18:01,750 --> 00:17:59,120
customer and the first to fly eight crew

359
00:18:04,549 --> 00:18:01,760
members he later served as president for

360
00:18:10,230 --> 00:18:04,559
raytheon aerospace engineering hank

361
00:18:16,470 --> 00:18:13,350
he flew to space twice on missions sts-5

362
00:18:18,789 --> 00:18:16,480
and sts-51a his rookie flight the first

363
00:18:20,870 --> 00:18:18,799

shuttle's first operational mission

364

00:18:22,710 --> 00:18:20,880

deployed two satellites

365

00:18:26,070 --> 00:18:22,720

his second mission featured the world's

366

00:18:28,230 --> 00:18:26,080

first space salvage using a jet backpack

367

00:18:31,110 --> 00:18:28,240

he and his crewmate dale gardner

368

00:18:34,310 --> 00:18:31,120

captured two malfunctioning satellites

369

00:18:36,470 --> 00:18:34,320

after leaving nasa in 1985 he served as

370

00:18:38,549 --> 00:18:36,480

chief executive officer of space

371

00:18:41,110 --> 00:18:38,559

industries international and later was

372

00:18:47,029 --> 00:18:41,120

chairman of viridian corporation until

373

00:18:52,390 --> 00:18:49,590

a three-flight veteran he and fellow

374

00:18:55,590 --> 00:18:52,400

crew mate bob crippen were the first to

375

00:18:59,510 --> 00:18:55,600

fly an orbiter in close proximity to a

376

00:19:01,350 --> 00:18:59,520

free-flying satellite on sts-7

377

00:19:03,830 --> 00:19:01,360

he went on to command the return to

378

00:19:13,029 --> 00:19:03,840

flight mission after challenger was lost

379

00:19:17,430 --> 00:19:15,190

he has flown four shuttle missions

380

00:19:19,590 --> 00:19:17,440

piloting the first night launch and

381

00:19:23,110 --> 00:19:19,600

commanding the others including the

382

00:19:24,390 --> 00:19:23,120

maiden flight of endeavor he spent 261

383

00:19:27,590 --> 00:19:24,400

hours in space

384

00:19:30,470 --> 00:19:27,600

during sts-32 he also served as chief of

385

00:19:32,150 --> 00:19:30,480

nasa's astronaut office for five years

386

00:19:34,710 --> 00:19:32,160

and is currently executive vice

387

00:19:41,510 --> 00:19:34,720

president and chief operating officer of

388

00:19:45,909 --> 00:19:43,510

he flew three space shuttle missions one

389

00:19:47,510 --> 00:19:45,919

as pilot and two as commander and served

390

00:19:49,350 --> 00:19:47,520

as a staff member of the presidential

391

00:19:52,150 --> 00:19:49,360

commission that investigated the

392

00:19:54,310 --> 00:19:52,160

challenger accident in 1986 and led to

393

00:19:57,430 --> 00:19:54,320

the return to flight team responsible

394

00:19:59,750 --> 00:19:57,440

for implementing safety modifications to

395

00:20:03,110 --> 00:19:59,760

the shuttle fleet he returned to space

396

00:20:06,470 --> 00:20:03,120

in 1989 as chief commander of columbia

397

00:20:08,789 --> 00:20:06,480

sts 28 he's currently serves as the vice

398

00:20:11,510 --> 00:20:08,799

president and general manager of boeing

399

00:20:13,190 --> 00:20:11,520

space exploration division brewster shaw

400

00:20:15,350 --> 00:20:13,200

jr

401
00:20:17,270 --> 00:20:15,360
he commanded four of his five space

402
00:20:18,870 --> 00:20:17,280
shuttle missions including the first

403
00:20:20,630 --> 00:20:18,880
docking of a shuttle with the russian

404
00:20:22,029 --> 00:20:20,640
space station mir

405
00:20:24,549 --> 00:20:22,039
as pilot of

406
00:20:27,430 --> 00:20:24,559
sts-41b performed the first shuttle

407
00:20:29,590 --> 00:20:27,440
landing at ksc's landing facility served

408
00:20:32,950 --> 00:20:29,600
as chief of the astronaut office until

409
00:20:35,190 --> 00:20:32,960
september 1994 retired from nasa soon

410
00:20:37,590 --> 00:20:35,200
thereafter he currently spends his time

411
00:20:40,070 --> 00:20:37,600
giving motivational speeches and setting

412
00:20:44,070 --> 00:20:40,080
world aviation records

413
00:20:48,549 --> 00:20:46,149

he will forever be remembered by an

414

00:20:51,510 --> 00:20:48,559

iconic photo taken of him

415

00:20:53,390 --> 00:20:51,520

free flying without a tether over the

416

00:20:56,390 --> 00:20:53,400

earth on mission sts

417

00:20:59,270 --> 00:20:56,400

41b during the flight he tested the man

418

00:21:01,190 --> 00:20:59,280

maneuvering unit a jet-powered backpack

419

00:21:03,990 --> 00:21:01,200

that allowed him to float away from the

420

00:21:06,789 --> 00:21:04,000

shuttle six years later he returned to

421

00:21:14,390 --> 00:21:06,799

space aboard discovery to deploy the

422

00:21:18,149 --> 00:21:16,230

he flew three shuttle missions and was a

423

00:21:20,710 --> 00:21:18,159

member of the first spacewalking team to

424

00:21:22,390 --> 00:21:20,720

repair a satellite in orbit he launched

425

00:21:25,350 --> 00:21:22,400

twice more on the missions immediately

426
00:21:27,029 --> 00:21:25,360
before and after the loss of challenger

427
00:21:29,669 --> 00:21:27,039
he retains the distinction of being the

428
00:21:32,310 --> 00:21:29,679
only american to test fly the russian

429
00:21:34,789 --> 00:21:32,320
man maneuvering unit currently he serves

430
00:21:37,510 --> 00:21:34,799
as director of science mathematics and

431
00:21:39,830 --> 00:21:37,520
technology education at western

432
00:21:45,750 --> 00:21:39,840
washington university george pinkey

433
00:21:49,430 --> 00:21:47,750
he has flown five space shuttle missions

434
00:21:50,430 --> 00:21:49,440
including the maiden flight of discovery

435
00:21:54,710 --> 00:21:50,440
and logged

436
00:21:56,549 --> 00:21:54,720
770 hours and 27 minutes in space during

437
00:21:58,950 --> 00:21:56,559
his third flight he helped deploy the

438
00:22:01,350 --> 00:21:58,960

hubble space telescope and assisted in

439

00:22:04,149 --> 00:22:01,360

its servicing on the next mission today

440

00:22:06,230 --> 00:22:04,159

as a professor of physics and astronomy

441

00:22:10,230 --> 00:22:06,240

at the university of kansas

442

00:22:15,590 --> 00:22:13,190

he is a veteran of five shuttle missions

443

00:22:17,909 --> 00:22:15,600

and the first astronaut to log 1 000

444

00:22:20,870 --> 00:22:17,919

hours on the shuttle he made nasa's

445

00:22:23,190 --> 00:22:20,880

first unplanned spacewalk and performed

446

00:22:25,350 --> 00:22:23,200

three spacewalks during his first hubble

447

00:22:27,110 --> 00:22:25,360

space telescope repair mission he is

448

00:22:29,909 --> 00:22:27,120

currently a professor at the

449

00:22:35,190 --> 00:22:29,919

massachusetts institute of technology

450

00:22:38,950 --> 00:22:37,430

he is a veteran of three space shuttle

451
00:22:41,350 --> 00:22:38,960
missions and was the first

452
00:22:43,590 --> 00:22:41,360
african-american space shuttle commander

453
00:22:45,750 --> 00:22:43,600
he has led the agency's safety emission

454
00:22:47,990 --> 00:22:45,760
assurance office the human space flight

455
00:22:51,190 --> 00:22:48,000
office and served as nasa's deputy

456
00:22:52,710 --> 00:22:51,200
administrator and as its acting

457
00:22:59,510 --> 00:22:52,720
administrator

458
00:23:04,230 --> 00:23:01,750
he flew five space shuttle missions and

459
00:23:06,710 --> 00:23:04,240
one long duration mere space station

460
00:23:08,390 --> 00:23:06,720
mission he piloted two flights including

461
00:23:11,190 --> 00:23:08,400
the third flight following the

462
00:23:13,430 --> 00:23:11,200
challenger tragedy he went on to command

463
00:23:15,990 --> 00:23:13,440

two missions before becoming the third

464

00:23:18,870 --> 00:23:16,000

american to live aboard the russian mir

465

00:23:19,630 --> 00:23:18,880

space station and set an american record

466

00:23:26,230 --> 00:23:19,640

of

467

00:23:30,070 --> 00:23:28,310

she flew four space shuttle missions

468

00:23:32,230 --> 00:23:30,080

during her 12 years in the astronaut

469

00:23:34,470 --> 00:23:32,240

corps as a mission specialist she took

470

00:23:38,149 --> 00:23:34,480

part in the first and only three-person

471

00:23:39,909 --> 00:23:38,159

space walk in may of 1992. she served as

472

00:23:42,070 --> 00:23:39,919

mission specialist aboard the first

473

00:23:43,590 --> 00:23:42,080

hubble space telescope repair mission

474

00:23:46,470 --> 00:23:43,600

and later served as the payload

475

00:23:48,870 --> 00:23:46,480

commander she co-authored an elementary

476

00:23:51,350 --> 00:23:48,880

science textbook series in partnership

477

00:23:53,669 --> 00:23:51,360

with nasa currently serves as associate

478

00:23:55,590 --> 00:23:53,679

dean for graduate programs in the

479

00:23:58,230 --> 00:23:55,600

university of virginia school of

480

00:24:01,669 --> 00:23:58,240

engineering and applied sciences kathy

481

00:24:06,950 --> 00:24:04,470

he is a four flight veteran piloting his

482

00:24:10,070 --> 00:24:06,960

first two space shuttle missions later

483

00:24:12,230 --> 00:24:10,080

he commanded sts-65 during which he and

484

00:24:15,590 --> 00:24:12,240

his crew set a record for the longest

485

00:24:17,830 --> 00:24:15,600

shuttle mission at that time and sts-88

486

00:24:20,230 --> 00:24:17,840

the first space station assembly mission

487

00:24:22,070 --> 00:24:20,240

he is currently the center director

488

00:24:23,029 --> 00:24:22,080

right here at nasa's kennedy space

489

00:24:28,310 --> 00:24:23,039

center

490

00:24:33,430 --> 00:24:30,710

he piloted sts-38 a department of

491

00:24:35,350 --> 00:24:33,440

defense mission then commanded sts-51

492

00:24:37,430 --> 00:24:35,360

which concluded with the first night

493

00:24:40,630 --> 00:24:37,440

landing at the kennedy space center on

494

00:24:42,310 --> 00:24:40,640

his third and final mission sts-105

495

00:24:45,830 --> 00:24:42,320

he commanded the international space

496

00:24:48,549 --> 00:24:45,840

station for 117 days he has served in

497

00:24:51,350 --> 00:24:48,559

many nasa leadership roles including iss

498

00:24:53,590 --> 00:24:51,360

deputy program manager but is now senior

499

00:24:55,750 --> 00:24:53,600

vice president deputy general manager of

500

00:24:58,149 --> 00:24:55,760

the advanced programs group at orbital

501
00:25:00,390 --> 00:24:58,159
sciences corporation where he oversees

502
00:25:04,710 --> 00:25:00,400
all human space flight for the company

503
00:25:09,029 --> 00:25:06,950
he piloted the precedent setting mission

504
00:25:11,029 --> 00:25:09,039
to the crippled hubble space telescope

505
00:25:13,430 --> 00:25:11,039
in 1993

506
00:25:16,070 --> 00:25:13,440
capturing and restoring it to full

507
00:25:18,390 --> 00:25:16,080
capability through a record five

508
00:25:20,390 --> 00:25:18,400
spacewalks then commanded the second

509
00:25:22,230 --> 00:25:20,400
maintenance mission he lived aboard the

510
00:25:24,510 --> 00:25:22,240
international space station from

511
00:25:28,390 --> 00:25:24,520
november 2nd through may

512
00:25:30,149 --> 00:25:28,400
2003 as commander of expedition six

513
00:25:32,230 --> 00:25:30,159

the first crew of u.s astronauts to

514

00:25:35,269 --> 00:25:32,240

return to earth in the russian soyuz

515

00:25:37,190 --> 00:25:35,279

spacecraft currently is spacex vice

516

00:25:39,510 --> 00:25:37,200

president of astronaut safety emission

517

00:25:42,470 --> 00:25:39,520

assurance ken bowersox

518

00:26:03,990 --> 00:25:42,480

ladies and gentlemen our hall of fame

519

00:26:07,669 --> 00:26:05,909

and now i'd like to welcome to the

520

00:26:09,750 --> 00:26:07,679

podium hall of fame astronaut and

521

00:26:16,470 --> 00:26:09,760

kennedy space center director mr robert

522

00:26:20,310 --> 00:26:18,070

thanks john

523

00:26:21,909 --> 00:26:20,320

on behalf of nasa and the entire ksc

524

00:26:23,510 --> 00:26:21,919

team i'd like to welcome you all to the

525

00:26:25,269 --> 00:26:23,520

kennedy space center

526

00:26:26,950 --> 00:26:25,279

this is always a fun event and something

527

00:26:28,470 --> 00:26:26,960

that i look forward to

528

00:26:29,669 --> 00:26:28,480

it's great to have

529

00:26:31,830 --> 00:26:29,679

these three

530

00:26:33,029 --> 00:26:31,840

outstanding inductees back here in

531

00:26:34,950 --> 00:26:33,039

florida

532

00:26:37,110 --> 00:26:34,960

franklin your journey from

533

00:26:40,070 --> 00:26:37,120

costa rica to coming up here on this

534

00:26:41,750 --> 00:26:40,080

stage is uh something very special and i

535

00:26:44,470 --> 00:26:41,760

think for any child that ever had a

536

00:26:46,070 --> 00:26:44,480

dream you're an inspiration

537

00:26:48,149 --> 00:26:46,080

chili

538

00:26:50,390 --> 00:26:48,159

you know you pretty much excelled at an

539

00:26:51,909 --> 00:26:50,400

astronaut i think those four store stars

540

00:26:53,269 --> 00:26:51,919

you weren't here for show your

541

00:26:54,710 --> 00:26:53,279

excellence there but i bet if i asked

542

00:26:56,390 --> 00:26:54,720

you what you're most proud of your

543

00:26:58,070 --> 00:26:56,400

finest accomplishment it'd be kathy and

544

00:26:59,669 --> 00:26:58,080

those four girls and i'm sorry they

545

00:27:02,710 --> 00:26:59,679

couldn't be here

546

00:27:05,029 --> 00:27:02,720

uh charlie pastor of lyon

547

00:27:06,789 --> 00:27:05,039

i i promise not to tell any stories

548

00:27:10,549 --> 00:27:06,799

about you and russia if you promise not

549

00:27:15,830 --> 00:27:13,029

in spite of what some of you may have

550

00:27:18,149 --> 00:27:15,840

heard the ending of the shuttle program

551
00:27:28,149 --> 00:27:18,159
has not ended human space flight at nasa

552
00:27:33,990 --> 00:27:31,190
ksc continues to make great strides at

553
00:27:36,230 --> 00:27:34,000
becoming a multi-user government and

554
00:27:39,110 --> 00:27:36,240
commercial spaceport of the future

555
00:27:41,909 --> 00:27:39,120
renovations out at launch pad 39b the

556
00:27:44,630 --> 00:27:41,919
vehicle assembly building the lcc

557
00:27:46,630 --> 00:27:44,640
are all on track to support the space

558
00:27:50,070 --> 00:27:46,640
launch system in the multipurpose crew

559
00:27:52,630 --> 00:27:50,080
vehicle in fact assembly the first test

560
00:27:54,789 --> 00:27:52,640
multi-purpose crew vehicle orion

561
00:27:56,470 --> 00:27:54,799
hardware is arriving at this time

562
00:27:59,510 --> 00:27:56,480
right now it's being assembled over in

563
00:28:02,230 --> 00:27:59,520

the one newly refurbished one high bay

564

00:28:04,149 --> 00:28:02,240

for a test flight in 2014.

565

00:28:06,070 --> 00:28:04,159

and there are visible signs that the

566

00:28:08,470 --> 00:28:06,080

commercial space industry continues to

567

00:28:10,070 --> 00:28:08,480

make progress also

568

00:28:12,950 --> 00:28:10,080

we've got space florida continuing to

569

00:28:14,870 --> 00:28:12,960

pair prepare opf bay 3 for boeing and

570

00:28:18,230 --> 00:28:14,880

their cst 100

571

00:28:19,990 --> 00:28:18,240

spacecraft yesterday sierra nevada

572

00:28:21,350 --> 00:28:20,000

announced an increased presence here at

573

00:28:22,149 --> 00:28:21,360

ksc

574

00:28:24,149 --> 00:28:22,159

and

575

00:28:26,070 --> 00:28:24,159

spacex falcon 9 launch coming up here

576
00:28:28,310 --> 00:28:26,080
with dragon taking cargo to the

577
00:28:30,389 --> 00:28:28,320
international space station shows their

578
00:28:32,149 --> 00:28:30,399
progress

579
00:28:34,310 --> 00:28:32,159
our path forward continues to be

580
00:28:35,830 --> 00:28:34,320
challenging but the ksc team is

581
00:28:37,669 --> 00:28:35,840
definitely up to the challenge and i

582
00:28:39,110 --> 00:28:37,679
know we're going to excel

583
00:28:41,350 --> 00:28:39,120
so to franklin

584
00:28:43,750 --> 00:28:41,360
chile and charlie and my sincere

585
00:28:46,149 --> 00:28:43,760
congratulations on a well-deserved honor

586
00:28:47,990 --> 00:28:46,159
and to chile and charlie

587
00:28:49,430 --> 00:28:48,000
sox and frank and i are just glad

588
00:29:01,350 --> 00:28:49,440

somebody else is going to walk in behind

589

00:29:05,110 --> 00:29:03,029

and now ladies and gentlemen please

590

00:29:07,110 --> 00:29:05,120

welcome hall of fame astronaut and

591

00:29:11,190 --> 00:29:07,120

astronaut scholarship foundation

592

00:29:15,750 --> 00:29:13,669

thank you very much

593

00:29:18,389 --> 00:29:15,760

thank you so much everyone

594

00:29:20,230 --> 00:29:18,399

it's great to uh be here with you today

595

00:29:23,269 --> 00:29:20,240

and i want to thank you for supporting

596

00:29:25,430 --> 00:29:23,279

uh this great uh event

597

00:29:27,909 --> 00:29:25,440

uh the inductions are already always a

598

00:29:29,190 --> 00:29:27,919

highlight of the year for me

599

00:29:31,990 --> 00:29:29,200

and uh

600

00:29:34,470 --> 00:29:32,000

i the astronaut scholarship foundation

601
00:29:35,350 --> 00:29:34,480
was founded by the six surviving members

602
00:29:37,350 --> 00:29:35,360
of the

603
00:29:39,510 --> 00:29:37,360
mercury's original

604
00:29:41,909 --> 00:29:39,520
america's original mercury seven

605
00:29:43,909 --> 00:29:41,919
astronauts in 1984.

606
00:29:45,990 --> 00:29:43,919
the foundation has been going strong for

607
00:29:49,110 --> 00:29:46,000
almost three decades

608
00:29:51,909 --> 00:29:49,120
and i am proud to be its chairman

609
00:29:53,909 --> 00:29:51,919
our goal is to aid the united states

610
00:29:56,470 --> 00:29:53,919
in remain in retaining its world

611
00:29:59,190 --> 00:29:56,480
leadership in science and technology by

612
00:30:01,430 --> 00:29:59,200
providing scholarships to top college

613
00:30:02,549 --> 00:30:01,440

students pursuing degrees in these

614

00:30:04,950 --> 00:30:02,559

fields

615

00:30:07,590 --> 00:30:04,960

in the beginning the award was a

616

00:30:10,870 --> 00:30:07,600

thousand dollars and there were seven uh

617

00:30:12,789 --> 00:30:10,880

scholarships given one representing each

618

00:30:16,389 --> 00:30:12,799

mercury astronaut

619

00:30:19,350 --> 00:30:16,399

the foundation now distributes 28 10 000

620

00:30:22,389 --> 00:30:19,360

scholarships annually and has awarded

621

00:30:23,590 --> 00:30:22,399

since its inception nearly 3.5 million

622

00:30:25,350 --> 00:30:23,600

dollars

623

00:30:28,070 --> 00:30:25,360

our scholarships are the largest

624

00:30:29,990 --> 00:30:28,080

monetary award given in the united

625

00:30:32,389 --> 00:30:30,000

states to science and engineering

626
00:30:35,269 --> 00:30:32,399
students at the undergraduate level and

627
00:30:37,269 --> 00:30:35,279
it's based on solely on merit

628
00:30:46,710 --> 00:30:37,279
scholarship recipient

629
00:30:48,950 --> 00:30:46,720
and brightest in the country and we have

630
00:30:50,549 --> 00:30:48,960
some here with all of our scholarships

631
00:30:59,110 --> 00:30:50,559
that are present stand up and let us

632
00:31:03,430 --> 00:31:00,710
thank you so much

633
00:31:05,509 --> 00:31:03,440
we're glad to support your educational

634
00:31:07,350 --> 00:31:05,519
efforts

635
00:31:10,470 --> 00:31:07,360
not only does the foundation provide

636
00:31:12,630 --> 00:31:10,480
scholarships but we also promote the

637
00:31:14,630 --> 00:31:12,640
the to the general public the importance

638
00:31:17,269 --> 00:31:14,640

of science technology and space

639

00:31:19,509 --> 00:31:17,279

exploration in the us

640

00:31:22,470 --> 00:31:19,519

one way we do this is by serving as a

641

00:31:25,269 --> 00:31:22,480

consultant to nasa and at kennedy space

642

00:31:27,430 --> 00:31:25,279

center visitors complex for the u.s

643

00:31:29,990 --> 00:31:27,440

astronaut hall of fame where we

644

00:31:32,789 --> 00:31:30,000

supervise the selection process

645

00:31:34,710 --> 00:31:32,799

of new astronauts for induction

646

00:31:39,990 --> 00:31:34,720

to do so

647

00:31:42,149 --> 00:31:40,000

outstanding uh an outside committee

648

00:31:44,149 --> 00:31:42,159

of hall of fame astronauts

649

00:31:47,029 --> 00:31:44,159

aerospace person professionals

650

00:31:48,149 --> 00:31:47,039

journalists retired nasa and industry

651
00:31:50,789 --> 00:31:48,159
officials

652
00:31:53,430 --> 00:31:50,799
some of which are here today

653
00:31:57,350 --> 00:31:53,440
with these individuals please stand so

654
00:31:59,830 --> 00:31:57,360
that we can thank you for your support

655
00:32:08,389 --> 00:31:59,840
anybody i know you're here yeah there's

656
00:32:15,110 --> 00:32:11,269
thank you very much for uh

657
00:32:17,830 --> 00:32:15,120
helping in selecting the class of 2012.

658
00:32:18,710 --> 00:32:17,840
now to celebrate this year's inductees

659
00:32:22,230 --> 00:32:18,720
we

660
00:32:23,909 --> 00:32:22,240
gala last night over at the apollo

661
00:32:25,990 --> 00:32:23,919
saturn 5 center

662
00:32:28,950 --> 00:32:26,000
some of y'all might have been there

663
00:32:31,509 --> 00:32:28,960

and we heard from the 19 astronaut

664

00:32:33,750 --> 00:32:31,519

scholars who were working all around the

665

00:32:35,990 --> 00:32:33,760

globe launching rockets researching

666

00:32:37,509 --> 00:32:36,000

medical advancements and furthering

667

00:32:38,950 --> 00:32:37,519

technology

668

00:32:40,789 --> 00:32:38,960

and this event

669

00:32:43,509 --> 00:32:40,799

today and last night would not have been

670

00:32:45,990 --> 00:32:43,519

possible without our friends at nasa bob

671

00:32:48,950 --> 00:32:46,000

cabana who's you've already heard from

672

00:32:51,750 --> 00:32:48,960

as well as kevin kelly and bill moore

673

00:32:54,149 --> 00:32:51,760

uh bill's here somewhere i know

674

00:32:58,310 --> 00:32:54,159

there we are thank you bill with the

675

00:33:02,710 --> 00:33:00,230

bill

676

00:33:07,110 --> 00:33:04,870

sponsorship is really invaluable for us

677

00:33:09,750 --> 00:33:07,120

and your help in making this all

678

00:33:11,830 --> 00:33:09,760

possible i'd also like to thank our top

679

00:33:13,430 --> 00:33:11,840

induction sponsors this year which

680

00:33:16,070 --> 00:33:13,440

include atk

681

00:33:18,470 --> 00:33:16,080

the boeing company courtyard by marriott

682

00:33:20,710 --> 00:33:18,480

in cocoa beach the northrop garman

683

00:33:22,789 --> 00:33:20,720

company james long

684

00:33:24,470 --> 00:33:22,799

lockheed martin and all the others who

685

00:33:26,389 --> 00:33:24,480

supported this event

686

00:33:28,310 --> 00:33:26,399

and let me turn

687

00:33:29,909 --> 00:33:28,320

let's give them all a hand

688

00:33:33,430 --> 00:33:29,919

they've been very generous in their

689

00:33:37,750 --> 00:33:35,669

and now let me turn it back over to john

690

00:33:43,990 --> 00:33:37,760

to induct this year's class into the

691

00:33:48,149 --> 00:33:46,230

thank you charlie

692

00:33:49,990 --> 00:33:48,159

you folks are really lucky today because

693

00:33:52,389 --> 00:33:50,000

as i said i've done many of these and

694

00:33:54,310 --> 00:33:52,399

this is a tremendous group a large well

695

00:33:58,549 --> 00:33:54,320

probably the largest group that i think

696

00:34:03,190 --> 00:34:00,789

and the time has arrived the induction

697

00:34:05,350 --> 00:34:03,200

of the 11th class of space shuttle

698

00:34:07,350 --> 00:34:05,360

astronauts into the united states

699

00:34:09,669 --> 00:34:07,360

astronaut hall of fame

700

00:34:12,790 --> 00:34:09,679

they will be introduced in the order in

701
00:34:16,470 --> 00:34:12,800
which they flew into space

702
00:34:19,030 --> 00:34:16,480
our first inductee is dr franklin r

703
00:34:21,270 --> 00:34:19,040
chang diaz

704
00:34:24,069 --> 00:34:21,280
during his 25 years in the astronaut

705
00:34:27,030 --> 00:34:24,079
program franklin chang diaz became one

706
00:34:28,790 --> 00:34:27,040
of only two astronauts to fly on seven

707
00:34:30,669 --> 00:34:28,800
space shuttle missions

708
00:34:33,869 --> 00:34:30,679
sts-61c

709
00:34:37,069 --> 00:34:33,879
sts-34 sts-46

710
00:34:40,069 --> 00:34:37,079
sts-60 sts-75

711
00:34:42,069 --> 00:34:40,079
sts-91 and sts-111 did i leave any out

712
00:34:44,430 --> 00:34:42,079
franklin

713
00:34:48,470 --> 00:34:44,440

he has logged more than 1

714

00:34:52,069 --> 00:34:48,480

601 hours in space a total that includes

715

00:34:54,470 --> 00:34:52,079

19 hours and 31 minutes accumulated

716

00:34:55,990 --> 00:34:54,480

during three spacewalks

717

00:34:57,750 --> 00:34:56,000

his missions into space included

718

00:34:59,670 --> 00:34:57,760

numerous scientific experiments and

719

00:35:01,829 --> 00:34:59,680

achievements as well as the deployment

720

00:35:04,950 --> 00:35:01,839

of numerous satellites as part of the

721

00:35:06,870 --> 00:35:04,960

crew of sts-34 atlantis he took part in

722

00:35:09,190 --> 00:35:06,880

the successful deployment of the galileo

723

00:35:12,470 --> 00:35:09,200

spacecraft on its journey to explore

724

00:35:14,829 --> 00:35:12,480

jupiter he has mapped atmospheric ozone

725

00:35:17,589 --> 00:35:14,839

levels researched on the effects of

726

00:35:20,950 --> 00:35:17,599

microgravity on plants and flew on the

727

00:35:22,870 --> 00:35:20,960

first joint u.s soyuz u.s russian space

728

00:35:25,589 --> 00:35:22,880

shuttle mission on which a russian

729

00:35:28,069 --> 00:35:25,599

cosmonaut was a crew member on his final

730

00:35:29,990 --> 00:35:28,079

mission sts-111 he installed the

731

00:35:32,710 --> 00:35:30,000

mobile-based system on the international

732

00:35:35,430 --> 00:35:32,720

space station and he replaced the failed

733

00:35:39,270 --> 00:35:35,440

wrist joint on the canada 2 arm chang

734

00:35:41,910 --> 00:35:39,280

diaz retired from nasa in july of 2005

735

00:35:44,470 --> 00:35:41,920

and then founded at astra rocket company

736

00:35:46,950 --> 00:35:44,480

which is dedicated to the development of

737

00:35:49,430 --> 00:35:46,960

advanced plasma rocket propulsion

738

00:35:51,270 --> 00:35:49,440

technology ed astra's efforts have led

739

00:35:53,510 --> 00:35:51,280

to the production of a rocket that has

740

00:35:56,230 --> 00:35:53,520

the theoretical franklin tells me it's

741

00:35:58,630 --> 00:35:56,240

more than theoretical capability of

742

00:35:59,390 --> 00:35:58,640

carrying a manned mission to mars in

743

00:36:01,910 --> 00:35:59,400

just

744

00:36:03,349 --> 00:36:01,920

39 days

745

00:36:19,670 --> 00:36:03,359

let's take a look at a few video

746

00:36:23,030 --> 00:36:21,430

mbs thermal blanket

747

00:36:24,470 --> 00:36:23,040

okay thanks

748

00:36:25,910 --> 00:36:24,480

really excited to be here it's going to

749

00:36:37,829 --> 00:36:25,920

be my first flight really looking

750

00:37:07,109 --> 00:36:41,109

mission 61c

751
00:37:10,390 --> 00:37:08,870
that's a nice pretty picture franklin

752
00:37:12,390 --> 00:37:10,400
thank you one

753
00:37:16,069 --> 00:37:12,400
and liftoff of the space shuttle

754
00:37:24,470 --> 00:37:16,079
atlantis on a mission for new utility in

755
00:37:28,470 --> 00:37:26,950
of discovery on a whole new era of space

756
00:37:36,230 --> 00:37:28,480
flight between the united states and

757
00:37:40,069 --> 00:37:38,230
of the space shuttle columbia continuing

758
00:37:48,870 --> 00:37:40,079
space research through tether satellite

759
00:37:53,670 --> 00:37:51,670
and liftoff with a spatial discovery as

760
00:38:02,069 --> 00:37:53,680
nasa departs on the final mission to

761
00:38:06,230 --> 00:38:04,069
and liftoff of the spatial endeavor

762
00:38:10,550 --> 00:38:06,240
extending our reach while expanding our

763
00:38:14,310 --> 00:38:12,550

this is a good view from franklin diaz's

764

00:38:29,750 --> 00:38:14,320

helmet camera looking past those debris

765

00:38:59,990 --> 00:38:30,829

ladies

766

00:39:03,349 --> 00:39:01,910

to present franklin chang diaz for

767

00:39:05,589 --> 00:39:03,359

induction into the united states

768

00:39:08,150 --> 00:39:05,599

astronaut hall of fame please welcome

769

00:39:16,150 --> 00:39:08,160

hall of fame astronaut george pinkey

770

00:39:21,030 --> 00:39:18,630

franklin

771

00:39:24,069 --> 00:39:21,040

and peggy

772

00:39:25,990 --> 00:39:24,079

so it's an honor to do this franklin

773

00:39:27,589 --> 00:39:26,000

franklin was the first

774

00:39:29,349 --> 00:39:27,599

latin american

775

00:39:30,630 --> 00:39:29,359

to fly in space

776

00:39:40,230 --> 00:39:30,640

he was

777

00:39:42,950 --> 00:39:40,240

rica and just like

778

00:39:45,109 --> 00:39:42,960

kids all over the world franklin wanted

779

00:39:47,030 --> 00:39:45,119

to be an astronaut when he grew up

780

00:39:50,710 --> 00:39:47,040

he followed

781

00:39:53,670 --> 00:39:50,720

the early space missions on the radio in

782

00:39:56,150 --> 00:39:53,680

in costa rica didn't speak english

783

00:39:58,390 --> 00:39:56,160

but he knew the names

784

00:39:59,670 --> 00:39:58,400

of the early astronauts he knew al

785

00:40:02,870 --> 00:39:59,680

shepard and

786

00:40:04,790 --> 00:40:02,880

john young and all you guys

787

00:40:06,950 --> 00:40:04,800

and but there was one astronaut he could

788

00:40:08,630 --> 00:40:06,960

never figure out who was on

789

00:40:11,349 --> 00:40:08,640

seemed like every mission there was this

790

00:40:21,589 --> 00:40:11,359

astronaut named roger that they kept

791

00:40:26,309 --> 00:40:23,190

did you ever get to meet him

792

00:40:30,069 --> 00:40:28,230

in 1967

793

00:40:31,589 --> 00:40:30,079

franklin wrote a letter to verner von

794

00:40:33,990 --> 00:40:31,599

braun

795

00:40:35,589 --> 00:40:34,000

i said what do i need to do to be an

796

00:40:37,349 --> 00:40:35,599

astronaut and von braun didn't answer

797

00:40:39,109 --> 00:40:37,359

but he did get an answer back from from

798

00:40:40,069 --> 00:40:39,119

someone at the marshall space flight

799

00:40:42,150 --> 00:40:40,079

center

800

00:40:43,430 --> 00:40:42,160

and the there was actually an underlying

801
00:40:44,790 --> 00:40:43,440
part of the letter that said well one of

802
00:40:46,950 --> 00:40:44,800
the things you need to do is a u.s

803
00:40:47,750 --> 00:40:46,960
citizen

804
00:40:49,510 --> 00:40:47,760
and

805
00:40:51,109 --> 00:40:49,520
not to be deterred after he graduated

806
00:40:53,750 --> 00:40:51,119
from high school franklin left costa

807
00:40:55,910 --> 00:40:53,760
rica and came to united states

808
00:40:57,829 --> 00:40:55,920
to be an astronaut he didn't speak

809
00:40:59,109 --> 00:40:57,839
english so he went to high school for a

810
00:41:02,230 --> 00:40:59,119
year and

811
00:41:03,510 --> 00:41:02,240
again and learned to speak english

812
00:41:06,950 --> 00:41:03,520
then he

813
00:41:09,349 --> 00:41:06,960

went on to college got a degree in

814

00:41:11,990 --> 00:41:09,359

mechanical engineering

815

00:41:13,349 --> 00:41:12,000

and on to uh

816

00:41:15,190 --> 00:41:13,359

mit

817

00:41:16,710 --> 00:41:15,200

it was an auspicious beginning when he

818

00:41:17,990 --> 00:41:16,720

came to united states like i said he

819

00:41:20,470 --> 00:41:18,000

didn't speak english and i don't know

820

00:41:23,190 --> 00:41:20,480

how long it was franklin but it was some

821

00:41:29,270 --> 00:41:23,200

significant period of time when franklin

822

00:41:35,030 --> 00:41:30,630

which was the only english phrase he

823

00:41:38,790 --> 00:41:36,870

but he did learn english and he learned

824

00:41:40,550 --> 00:41:38,800

engineering and he went to mit and he

825

00:41:41,670 --> 00:41:40,560

learned plasma physics and he learned to

826

00:41:45,270 --> 00:41:41,680

fly

827

00:41:48,470 --> 00:41:45,280

and he became a united states citizen

828

00:41:51,670 --> 00:41:48,480

and in 1980

829

00:41:53,750 --> 00:41:51,680

he became an astronaut candidate which

830

00:41:56,150 --> 00:41:53,760

is an absolutely remarkable thing for a

831

00:42:07,829 --> 00:41:56,160

kid from costa rica to pretty much will

832

00:42:16,630 --> 00:42:11,990

so he moved to houston he married peggy

833

00:42:19,430 --> 00:42:16,640

he uh his first flight was sts-61c

834

00:42:21,030 --> 00:42:19,440

and uh i have a i o franklin from that

835

00:42:23,910 --> 00:42:21,040

flight he actually saved me from a life

836

00:42:27,670 --> 00:42:26,150

on we had five launch attempts on that

837

00:42:30,470 --> 00:42:27,680

mission and

838

00:42:33,349 --> 00:42:30,480

after one of the early launch attempts

839

00:42:35,430 --> 00:42:33,359

franklin came up to me and i had i had

840

00:42:37,589 --> 00:42:35,440

been taking almost from superstition we

841

00:42:39,750 --> 00:42:37,599

used to take this uh

842

00:42:41,750 --> 00:42:39,760

medication called scope decks it was a

843

00:42:43,430 --> 00:42:41,760

little half a pile of scopolamine and

844

00:42:45,670 --> 00:42:43,440

half a pill of dextrine so one was an

845

00:42:47,270 --> 00:42:45,680

upper and one was a downer and the

846

00:42:49,510 --> 00:42:47,280

the rumor was that it would keep you

847

00:42:51,430 --> 00:42:49,520

from getting space sick

848

00:42:53,430 --> 00:42:51,440

and

849

00:42:54,790 --> 00:42:53,440

after i think it was the second launch

850

00:42:57,349 --> 00:42:54,800

attempt franklin came up and put his

851
00:42:58,870 --> 00:42:57,359
hand on my shoulder and said

852
00:43:00,550 --> 00:42:58,880
pinky i don't think you should take

853
00:43:07,750 --> 00:43:00,560
scope decks anymore it makes you really

854
00:43:12,069 --> 00:43:08,630
and i

855
00:43:14,790 --> 00:43:12,079
i kicked it

856
00:43:15,589 --> 00:43:14,800
never took it again

857
00:43:18,550 --> 00:43:15,599
so

858
00:43:19,750 --> 00:43:18,560
over 12 years franklin flew seven times

859
00:43:21,349 --> 00:43:19,760
franklin was probably the most

860
00:43:23,270 --> 00:43:21,359
comfortable

861
00:43:26,309 --> 00:43:23,280
astronaut i've known he just seemed to

862
00:43:28,069 --> 00:43:26,319
fit in whatever was going on around

863
00:43:30,630 --> 00:43:28,079

around there

864

00:43:33,430 --> 00:43:30,640

but i think just as importantly

865

00:43:35,910 --> 00:43:33,440

and uniquely in the astronaut office

866

00:43:38,150 --> 00:43:35,920

franklin came in as a scientist and an

867

00:43:39,670 --> 00:43:38,160

engineer and he worked really hard to

868

00:43:42,150 --> 00:43:39,680

maintain

869

00:43:43,750 --> 00:43:42,160

that status while he was

870

00:43:45,190 --> 00:43:43,760

being assigned to flights and working on

871

00:43:48,069 --> 00:43:45,200

missions he used to carry around the

872

00:43:50,470 --> 00:43:48,079

notebook where he would

873

00:43:51,990 --> 00:43:50,480

solve the

874

00:43:54,069 --> 00:43:52,000

maxwell's equations and the

875

00:43:55,510 --> 00:43:54,079

navier-stokes equations and you know i

876

00:43:56,870 --> 00:43:55,520

remember looking at it one day actually

877

00:43:58,790 --> 00:43:56,880

charlie bolden showed it to me at the

878

00:44:00,870 --> 00:43:58,800

top of the page it said something like i

879

00:44:02,470 --> 00:44:00,880

will now show that i that we can build

880

00:44:04,230 --> 00:44:02,480

the nozzle

881

00:44:06,150 --> 00:44:04,240

nothing and it was followed by all these

882

00:44:09,349 --> 00:44:06,160

equations

883

00:44:11,670 --> 00:44:09,359

and so he continued to push the envelope

884

00:44:13,510 --> 00:44:11,680

and and after he left nasa franklin has

885

00:44:15,190 --> 00:44:13,520

continued to push the envelope at his at

886

00:44:16,950 --> 00:44:15,200

his company at astra

887

00:44:19,510 --> 00:44:16,960

and

888

00:44:22,710 --> 00:44:19,520

he's got an engine that runs i mean

889

00:44:24,950 --> 00:44:22,720

it's hard enough to solve maxwell's

890

00:44:27,510 --> 00:44:24,960

equations and the navier-stokes

891

00:44:29,349 --> 00:44:27,520

equations together right but but to

892

00:44:30,950 --> 00:44:29,359

actually building build a machine that

893

00:44:32,470 --> 00:44:30,960

solves those equations in the way you

894

00:44:34,630 --> 00:44:32,480

want and produces

895

00:44:35,510 --> 00:44:34,640

thrust out the back end is an amazing

896

00:44:36,710 --> 00:44:35,520

thing

897

00:44:38,630 --> 00:44:36,720

and

898

00:44:43,190 --> 00:44:38,640

as he says he thinks he can get us to

899

00:44:44,710 --> 00:44:43,200

mars in 39 days if we work at it

900

00:44:46,230 --> 00:44:44,720

so

901
00:44:49,270 --> 00:44:46,240
franklin we can only hope the country

902
00:44:51,670 --> 00:44:49,280
has the vision and the courage to pursue

903
00:44:54,309 --> 00:44:51,680
these kind of goals and

904
00:44:56,230 --> 00:44:54,319
you've done incredible things

905
00:44:59,349 --> 00:44:56,240
but i really believe that your biggest

906
00:45:01,270 --> 00:44:59,359
impact is uh is yet to come

907
00:45:02,630 --> 00:45:01,280
so i can't imagine

908
00:45:04,390 --> 00:45:02,640
the us

909
00:45:05,910 --> 00:45:04,400
astronaut hall of fame without franklin

910
00:45:07,349 --> 00:45:05,920
chang in it

911
00:45:37,270 --> 00:45:07,359
so

912
00:45:44,710 --> 00:45:40,390
thank you

913
00:45:47,109 --> 00:45:44,720

i

914

00:45:50,069 --> 00:45:47,119

don't have

915

00:45:52,550 --> 00:45:50,079

words prepared but i will speak

916

00:45:54,870 --> 00:45:52,560

from the heart

917

00:45:58,950 --> 00:45:54,880

i am

918

00:46:01,510 --> 00:45:58,960

i'm a product of two cultures

919

00:46:02,950 --> 00:46:01,520

and um this

920

00:46:05,829 --> 00:46:02,960

honor here

921

00:46:08,630 --> 00:46:05,839

has a special meaning to me

922

00:46:10,470 --> 00:46:08,640

because it's given by

923

00:46:13,109 --> 00:46:10,480

those who

924

00:46:15,270 --> 00:46:13,119

have always been my heroes

925

00:46:18,230 --> 00:46:15,280

and these folks here

926
00:46:20,710 --> 00:46:18,240
are the people that i looked up to

927
00:46:23,430 --> 00:46:20,720
since i was very young

928
00:46:26,309 --> 00:46:23,440
and i think this whole um

929
00:46:29,190 --> 00:46:26,319
this whole thing is like a chain

930
00:46:30,390 --> 00:46:29,200
and there are many others probably young

931
00:46:32,309 --> 00:46:30,400
kids

932
00:46:35,030 --> 00:46:32,319
like i was

933
00:46:38,230 --> 00:46:35,040
that are looking up to us

934
00:46:40,829 --> 00:46:38,240
and following their dreams

935
00:46:44,790 --> 00:46:40,839
and one thing i always say is that no

936
00:46:47,270 --> 00:46:44,800
one gets anywhere without someone

937
00:46:50,870 --> 00:46:47,280
someone else's help

938
00:46:53,030 --> 00:46:50,880

and i sure had my dose of help

939

00:46:57,270 --> 00:46:53,040

from a lot of people

940

00:46:59,510 --> 00:46:57,280

in costa rica and the united states

941

00:47:07,670 --> 00:46:59,520

beginning with my mother

942

00:47:07,680 --> 00:47:16,630

my mother

943

00:47:21,349 --> 00:47:19,430

and many other members of my family

944

00:47:24,230 --> 00:47:21,359

i have brothers

945

00:47:26,870 --> 00:47:24,240

i have one of my daughters here my wife

946

00:47:28,549 --> 00:47:26,880

peggy who's been behind me

947

00:47:31,030 --> 00:47:28,559

all this time

948

00:47:33,750 --> 00:47:31,040

difficult times of

949

00:47:43,670 --> 00:47:33,760

danger of going into space so many times

950

00:47:46,390 --> 00:47:44,549

but

951
00:47:49,349 --> 00:47:46,400
i'm actually

952
00:47:50,390 --> 00:47:49,359
today most thankful

953
00:47:55,430 --> 00:47:50,400
to

954
00:47:59,030 --> 00:47:55,440
that in 1968

955
00:48:01,430 --> 00:47:59,040
opened the doors for me

956
00:48:03,109 --> 00:48:01,440
a dreamer that came to the shores of

957
00:48:09,510 --> 00:48:03,119
this country

958
00:48:11,589 --> 00:48:09,520
to the land of opportunity

959
00:48:14,069 --> 00:48:11,599
to the american dream

960
00:48:16,790 --> 00:48:14,079
and i can say

961
00:48:21,349 --> 00:48:19,109
i fulfill that dream

962
00:48:23,589 --> 00:48:21,359
and the dream is alive here

963
00:48:26,549 --> 00:48:23,599

in this country it's a great country

964

00:48:33,430 --> 00:48:26,559

it's the best country on this planet

965

00:48:33,440 --> 00:48:35,990

have to

966

00:48:39,670 --> 00:48:38,230

look at it from the outside to

967

00:48:41,829 --> 00:48:39,680

appreciate

968

00:48:43,030 --> 00:48:41,839

the beauty that we have

969

00:48:44,870 --> 00:48:43,040

in this

970

00:48:47,190 --> 00:48:44,880

50 states

971

00:48:51,109 --> 00:48:48,710

the goals

972

00:48:54,069 --> 00:48:51,119

the aspirations and the difficulties

973

00:48:58,950 --> 00:48:56,950

but the future is bright

974

00:49:01,990 --> 00:48:58,960

and we've got

975

00:49:04,549 --> 00:49:02,000

you know the table served

976
00:49:06,790 --> 00:49:04,559
we need to keep it and protected

977
00:49:07,829 --> 00:49:06,800
and i think for this young scholars that

978
00:49:09,829 --> 00:49:07,839
are

979
00:49:11,910 --> 00:49:09,839
looking to the future

980
00:49:14,470 --> 00:49:11,920
the future is great

981
00:49:15,270 --> 00:49:14,480
the future is absolutely great

982
00:49:16,790 --> 00:49:15,280
and

983
00:49:19,030 --> 00:49:16,800
this country will be

984
00:49:21,670 --> 00:49:19,040
the leader

985
00:49:22,549 --> 00:49:21,680
and i am very proud to be part of that

986
00:49:38,870 --> 00:49:22,559
team

987
00:49:43,030 --> 00:49:41,589
congratulations dr franklin chang diaz

988
00:49:47,430 --> 00:49:43,040

and welcome to the united states

989

00:49:57,589 --> 00:49:49,349

roger just called for you i told him you

990

00:50:01,990 --> 00:50:00,630

our second inductee today is general

991

00:50:05,270 --> 00:50:02,000

kevin p

992

00:50:10,309 --> 00:50:07,349

a three-time space shuttle astronaut

993

00:50:13,470 --> 00:50:10,319

kevin chilton has logged more than 704

994

00:50:17,750 --> 00:50:13,480

hours in space he served as the pilot on

995

00:50:20,630 --> 00:50:17,760

sts-49 and sts 59 and as the commander

996

00:50:24,710 --> 00:50:20,640

of sts-76

997

00:50:26,790 --> 00:50:24,720

in 1992 chilton launched aboard sts-49

998

00:50:28,790 --> 00:50:26,800

the maiden voyage of the space shuttle

999

00:50:32,710 --> 00:50:28,800

endeavor during the mission the crew

1000

00:50:35,349 --> 00:50:32,720

performed a record for evas to retrieve

1001
00:50:38,069 --> 00:50:35,359
repair and deploy the international

1002
00:50:40,950 --> 00:50:38,079
telecommunications satellite and to

1003
00:50:43,030 --> 00:50:40,960
demonstrate and evaluate numerous eva

1004
00:50:45,510 --> 00:50:43,040
tasks to be used for the assembly of the

1005
00:50:47,829 --> 00:50:45,520
space station freedom the proposed

1006
00:50:49,670 --> 00:50:47,839
orbiting laboratory that served as the

1007
00:50:50,790 --> 00:50:49,680
forerunner to the international space

1008
00:50:53,510 --> 00:50:50,800
station

1009
00:50:55,910 --> 00:50:53,520
as pilot on sts-59 he took part in the

1010
00:50:58,870 --> 00:50:55,920
deployment of the space radar laboratory

1011
00:51:00,230 --> 00:50:58,880
or srl to study the earth's surface and

1012
00:51:03,990 --> 00:51:00,240
atmosphere

1013
00:51:06,230 --> 00:51:04,000

and as commander on sts 76 he guided the

1014

00:51:08,790 --> 00:51:06,240

shuttle for its third docking with the

1015

00:51:11,510 --> 00:51:08,800

russian space station mir

1016

00:51:14,309 --> 00:51:11,520

which began a continuous two-year

1017

00:51:15,829 --> 00:51:14,319

presence of americans aboard the russian

1018

00:51:17,589 --> 00:51:15,839

space station

1019

00:51:19,750 --> 00:51:17,599

after an 11-year career with nasa

1020

00:51:22,230 --> 00:51:19,760

chilton returned to the air force where

1021

00:51:25,109 --> 00:51:22,240

he most recently served as commander

1022

00:51:27,589 --> 00:51:25,119

united states strategic command office

1023

00:51:30,069 --> 00:51:27,599

air force base nebraska a position in

1024

00:51:33,030 --> 00:51:30,079

which he was responsible for the global

1025

00:51:35,030 --> 00:51:33,040

command and control of u.s strategic

1026
00:51:37,589 --> 00:51:35,040
forces to meet decisive national

1027
00:51:41,030 --> 00:51:37,599
security objectives children retired

1028
00:51:45,030 --> 00:51:41,040
from the air force on february 1st 2011

1029
00:51:46,150 --> 00:51:45,040
having attained the rank of four star

1030
00:51:47,589 --> 00:51:46,160
general

1031
00:52:10,549 --> 00:51:47,599
let's take a look at some of the video

1032
00:52:12,790 --> 00:52:11,589
three

1033
00:52:13,910 --> 00:52:12,800
two

1034
00:52:16,309 --> 00:52:13,920
one

1035
00:52:18,470 --> 00:52:16,319
booster ignition and liftoff of the

1036
00:52:24,470 --> 00:52:18,480
maiden voyage of endeavor on a satellite

1037
00:52:28,870 --> 00:52:26,069
the use of this ergometer is part of an

1038
00:52:41,750 --> 00:52:28,880

evaluation to investigate alternatives

1039

00:52:47,030 --> 00:52:44,390

zero and liftoff of the space shuttle

1040

00:53:01,430 --> 00:52:47,040

endeavor observing the changes of planet

1041

00:53:05,829 --> 00:53:03,829

the commander sid gutierrez in the blue

1042

00:53:08,150 --> 00:53:05,839

shirt uh pilot kevin chilton in the red

1043

00:53:09,750 --> 00:53:08,160

shirt and payload commander linda godwin

1044

00:53:11,190 --> 00:53:09,760

just moving out of the frame the final

1045

00:53:13,190 --> 00:53:11,200

thing that's unique about this flight

1046

00:53:14,950 --> 00:53:13,200

over the other two previous flights to is

1047

00:53:16,390 --> 00:53:14,960

the particular science we're conducting

1048

00:53:17,510 --> 00:53:16,400

on the mission

1049

00:53:20,230 --> 00:53:17,520

one

1050

00:53:22,069 --> 00:53:20,240

booster ignition and liftoff of atlantis

1051
00:53:24,870 --> 00:53:22,079
on the third shuttle mirror docking

1052
00:53:24,880 --> 00:53:32,870
we have a good image of you chilly

1053
00:53:36,230 --> 00:53:34,630
this is the first time in my three

1054
00:53:38,470 --> 00:53:36,240
shuttle flights and i've actually gone

1055
00:53:58,150 --> 00:53:38,480
some place when i left the planet earth

1056
00:53:58,160 --> 00:54:00,829
ladies and

1057
00:54:20,630 --> 00:54:03,349
gentles and gentlemen astronaut kevin

1058
00:54:24,470 --> 00:54:22,710
to present kevin chilton for induction

1059
00:54:26,390 --> 00:54:24,480
into the united states astronaut hall of

1060
00:54:36,150 --> 00:54:26,400
fame please welcome hall of fame

1061
00:54:40,470 --> 00:54:38,789
well good afternoon uh you heard uh the

1062
00:54:42,710 --> 00:54:40,480
rundown of chili's uh technical

1063
00:54:44,870 --> 00:54:42,720

achievements but one of the things uh i

1064

00:54:46,710 --> 00:54:44,880

remember uh most about chile is his

1065

00:54:48,069 --> 00:54:46,720

dedication to his family a dedicated

1066

00:54:49,750 --> 00:54:48,079

family man

1067

00:54:52,549 --> 00:54:49,760

and he is fortunate to have his wife

1068

00:54:56,230 --> 00:54:52,559

kathy with him here today

1069

00:54:57,990 --> 00:54:56,240

she is she's a general in her own right

1070

00:54:59,349 --> 00:54:58,000

he also is a father of four daughters

1071

00:55:01,990 --> 00:54:59,359

which demonstrates he is really a

1072

00:55:05,829 --> 00:55:03,829

and they refer to the daughters as the

1073

00:55:07,910 --> 00:55:05,839

four m's

1074

00:55:10,309 --> 00:55:07,920

daughter number one madison

1075

00:55:11,910 --> 00:55:10,319

is graduating from united states air

1076

00:55:14,549 --> 00:55:11,920

force academy and will put on an

1077

00:55:16,230 --> 00:55:14,559

attendance bar here in a few days

1078

00:55:18,950 --> 00:55:16,240

daughter number two mary kate is a

1079

00:55:20,309 --> 00:55:18,960

sophomore at the university of nebraska

1080

00:55:22,150 --> 00:55:20,319

daughter number three megan is

1081

00:55:24,950 --> 00:55:22,160

graduating from high school and going on

1082

00:55:27,670 --> 00:55:24,960

to penn state university

1083

00:55:29,030 --> 00:55:27,680

and the daughter number four morgan uh

1084

00:55:30,549 --> 00:55:29,040

is uh

1085

00:55:32,150 --> 00:55:30,559

kathy says gonna go balloon writing but

1086

00:55:34,390 --> 00:55:32,160

i don't think that's really true she's a

1087

00:55:36,390 --> 00:55:34,400

she's a sophomore in high school

1088

00:55:37,589 --> 00:55:36,400

so you can imagine these four m's uh

1089

00:55:39,270 --> 00:55:37,599

coming home to dinner at night and

1090

00:55:41,510 --> 00:55:39,280

having dinner with two generals every

1091

00:55:43,589 --> 00:55:41,520

night

1092

00:55:45,030 --> 00:55:43,599

well in addition to being a terrific

1093

00:55:47,430 --> 00:55:45,040

family man

1094

00:55:49,910 --> 00:55:47,440

there are a few other things that that

1095

00:55:51,510 --> 00:55:49,920

chile has done he graduated as a

1096

00:55:54,309 --> 00:55:51,520

distinguished graduate of the air force

1097

00:55:56,710 --> 00:55:54,319

academy in 76 went on to get a master's

1098

00:55:57,829 --> 00:55:56,720

as a guggenheim fellowship at columbia

1099

00:55:59,349 --> 00:55:57,839

had

1100

00:56:02,390 --> 00:55:59,359

operational tours and

1101

00:56:03,750 --> 00:56:02,400

rf4s and f-15s i went to

1102

00:56:05,510 --> 00:56:03,760

u.s

1103

00:56:07,030 --> 00:56:05,520

air force squadron officer school was

1104

00:56:09,109 --> 00:56:07,040

first in his class a little bit of a

1105

00:56:12,230 --> 00:56:09,119

trend developing here went back to

1106

00:56:15,829 --> 00:56:12,240

flying f-15s went to tps

1107

00:56:18,309 --> 00:56:15,839

air force tps was first in his class and

1108

00:56:19,349 --> 00:56:18,319

then he went on to be a test pilot at

1109

00:56:21,589 --> 00:56:19,359

eglint

1110

00:56:24,630 --> 00:56:21,599

he joined the astronaut office in 1988

1111

00:56:26,630 --> 00:56:24,640

the class of 88 and his first flight was

1112

00:56:28,069 --> 00:56:26,640

on sts-49

1113

00:56:30,390 --> 00:56:28,079

i was fortunate enough to be the

1114

00:56:32,870 --> 00:56:30,400

commander of that flight and he was a

1115

00:56:35,349 --> 00:56:32,880

rookie on the flight but uh but let you

1116

00:56:36,789 --> 00:56:35,359

tell me he performed uh like a pro just

1117

00:56:38,230 --> 00:56:36,799

a quick recap if you remember the

1118

00:56:39,589 --> 00:56:38,240

mission we were supposed to go up i have

1119

00:56:41,349 --> 00:56:39,599

four spacewalks one we were going to

1120

00:56:42,789 --> 00:56:41,359

rescue a satellite and it'll set and

1121

00:56:44,950 --> 00:56:42,799

then we're going to do three spacewalks

1122

00:56:46,870 --> 00:56:44,960

and develop operational procedures for

1123

00:56:49,589 --> 00:56:46,880

the assembly of space station

1124

00:56:51,270 --> 00:56:49,599

well the reality of the mission was that

1125

00:56:53,349 --> 00:56:51,280

the first attempt to capture the

1126
00:56:54,390 --> 00:56:53,359
satellite didn't work and we chased it

1127
00:56:56,630 --> 00:56:54,400
around

1128
00:56:58,950 --> 00:56:56,640
for a while and it went out of control

1129
00:57:00,230 --> 00:56:58,960
and we we backed off and

1130
00:57:02,150 --> 00:57:00,240
they got it under control again came

1131
00:57:03,510 --> 00:57:02,160
back the next day chased it even more

1132
00:57:06,150 --> 00:57:03,520
still didn't get it

1133
00:57:09,030 --> 00:57:06,160
and ultimately redesigned the mission on

1134
00:57:10,630 --> 00:57:09,040
the fly and uh and were successful by

1135
00:57:13,430 --> 00:57:10,640
having three people outside to catch a

1136
00:57:15,750 --> 00:57:13,440
satellite now chile's role as the pilot

1137
00:57:16,870 --> 00:57:15,760
uh between the

1138
00:57:19,030 --> 00:57:16,880

uh

1139

00:57:20,309 --> 00:57:19,040

kt kathy thornton bruce melnick on the

1140

00:57:21,750 --> 00:57:20,319

arm and myself

1141

00:57:23,910 --> 00:57:21,760

chasing the satellite we were all pretty

1142

00:57:25,910 --> 00:57:23,920

focused on that and chile was

1143

00:57:27,750 --> 00:57:25,920

instrumental in that mission because he

1144

00:57:29,750 --> 00:57:27,760

kept the situational awareness he knew

1145

00:57:31,349 --> 00:57:29,760

the big picture of what was going on at

1146

00:57:33,030 --> 00:57:31,359

any point in time he kept saying okay we

1147

00:57:34,630 --> 00:57:33,040

gotta abort we can do this we gotta

1148

00:57:36,870 --> 00:57:34,640

board we can do that so he was really on

1149

00:57:37,829 --> 00:57:36,880

top of where we were what was happening

1150

00:57:39,349 --> 00:57:37,839

and

1151
00:57:41,349 --> 00:57:39,359
fortunately we didn't have to do any of

1152
00:57:42,470 --> 00:57:41,359
that but it was very important and

1153
00:57:44,390 --> 00:57:42,480
that's why i said even though he was a

1154
00:57:46,870 --> 00:57:44,400
rookie he was he was operating like a

1155
00:57:48,630 --> 00:57:46,880
pro well then after the second day where

1156
00:57:50,390 --> 00:57:48,640
we didn't capture it uh

1157
00:57:51,910 --> 00:57:50,400
we had to come up with a new idea on how

1158
00:57:53,910 --> 00:57:51,920
to how to get a hold of this and i

1159
00:57:55,430 --> 00:57:53,920
remember that night we theoretically

1160
00:57:57,510 --> 00:57:55,440
were supposed to be asleep

1161
00:57:58,789 --> 00:57:57,520
and uh and kevin and i are peering out

1162
00:58:01,349 --> 00:57:58,799
the back window looking in the payload

1163
00:58:03,190 --> 00:58:01,359

bay looking for natural resources on how

1164

00:58:04,470 --> 00:58:03,200

to come up with another approach a

1165

00:58:06,230 --> 00:58:04,480

little while later a couple other crew

1166

00:58:08,390 --> 00:58:06,240

heads popped up out of the mid-deck and

1167

00:58:11,270 --> 00:58:08,400

we devised actually i think we came up

1168

00:58:13,349 --> 00:58:11,280

with two approaches that uh we relayed

1169

00:58:15,990 --> 00:58:13,359

to the ground but once again kevin was

1170

00:58:17,829 --> 00:58:16,000

key in developing these ideas and he was

1171

00:58:19,430 --> 00:58:17,839

a great artist so back then we didn't

1172

00:58:21,030 --> 00:58:19,440

have all his internet stuff on board the

1173

00:58:22,470 --> 00:58:21,040

the vehicle so he was drawing little

1174

00:58:24,470 --> 00:58:22,480

sketches on the paper and holding them

1175

00:58:26,549 --> 00:58:24,480

up in front of the tv camera to show the

1176

00:58:28,710 --> 00:58:26,559

ground what our idea was

1177

00:58:30,470 --> 00:58:28,720

well fortunately the idea worked we went

1178

00:58:32,309 --> 00:58:30,480

through all the safety uh

1179

00:58:35,030 --> 00:58:32,319

thought process of how to have three

1180

00:58:36,870 --> 00:58:35,040

people do a spacewalk and and sold it to

1181

00:58:38,549 --> 00:58:36,880

the ground now after the flight we sat

1182

00:58:39,829 --> 00:58:38,559

around said you know if two hours two

1183

00:58:41,030 --> 00:58:39,839

years before we

1184

00:58:42,950 --> 00:58:41,040

told him we wanted to do it this way but

1185

00:58:44,470 --> 00:58:42,960

i've never been able to sell it but uh

1186

00:58:46,230 --> 00:58:44,480

we were able to do it overnight and once

1187

00:58:48,150 --> 00:58:46,240

again chile was key to that so he

1188

00:58:50,710 --> 00:58:48,160

performed like a pro throughout this uh

1189

00:58:52,870 --> 00:58:50,720

this whole mission one of the uh the the

1190

00:58:54,150 --> 00:58:52,880

experiences we had uh during training

1191

00:58:55,670 --> 00:58:54,160

actually was right down here at the cape

1192

00:58:58,309 --> 00:58:55,680

but we were training one day trade hard

1193

00:59:00,390 --> 00:58:58,319

all day and then we went into town that

1194

00:59:03,109 --> 00:59:00,400

evening uh had a big van we had a crew

1195

00:59:04,789 --> 00:59:03,119

of seven in there uh it was we were

1196

00:59:07,750 --> 00:59:04,799

going to go in and do some post-training

1197

00:59:09,430 --> 00:59:07,760

uh relaxing uh it was during lent and

1198

00:59:11,349 --> 00:59:09,440

and and kevin uh

1199

00:59:12,950 --> 00:59:11,359

wasn't going to partake of some of the

1200

00:59:14,710 --> 00:59:12,960

training we were post-flight training we

1201
00:59:15,750 --> 00:59:14,720
were going to do so he was a designated

1202
00:59:17,990 --> 00:59:15,760
driver

1203
00:59:19,829 --> 00:59:18,000
so after a night of debriefing and we're

1204
00:59:22,230 --> 00:59:19,839
on our way back and uh

1205
00:59:24,069 --> 00:59:22,240
and as we came through the gate uh at

1206
00:59:25,670 --> 00:59:24,079
cape canaveral i remember him saying he

1207
00:59:27,349 --> 00:59:25,680
said we gotta be careful here because

1208
00:59:29,190 --> 00:59:27,359
the security hangs out and you get a get

1209
00:59:31,109 --> 00:59:29,200
it easy to get a speeding ticket and we

1210
00:59:33,190 --> 00:59:31,119
round the bend and lo and behold there

1211
00:59:33,990 --> 00:59:33,200
are flashing lights in a rearview mirror

1212
00:59:36,630 --> 00:59:34,000
so

1213
00:59:38,630 --> 00:59:36,640

he wasn't exactly doing what he said but

1214

00:59:40,390 --> 00:59:38,640

but we got pulled over and we had the

1215

00:59:43,510 --> 00:59:40,400

world's greatest security person he came

1216

00:59:46,230 --> 00:59:43,520

up and lectured for 20 minutes

1217

00:59:48,309 --> 00:59:46,240

on the dangers of encountering the

1218

00:59:50,309 --> 00:59:48,319

wildlife at kennedy i mean at cape

1219

00:59:52,390 --> 00:59:50,319

canaveral air force station

1220

00:59:53,829 --> 00:59:52,400

at high speed

1221

00:59:56,230 --> 00:59:53,839

you got your deer they come up through

1222

00:59:57,750 --> 00:59:56,240

the window and they kill you

1223

01:00:00,710 --> 00:59:57,760

you've got your hogs you run over them

1224

01:00:02,630 --> 01:00:00,720

you roll in a ditch and you die

1225

01:00:04,950 --> 01:00:02,640

you got your gators they run you in the

1226

01:00:06,950 --> 01:00:04,960

ditch and you die too you know

1227

01:00:10,150 --> 01:00:06,960

and then he said who's your supervisor

1228

01:00:13,910 --> 01:00:12,549

because i was sitting next to him

1229

01:00:15,910 --> 01:00:13,920

and so anyhow after his 20-minute

1230

01:00:17,430 --> 01:00:15,920

lecture he let us go and lo and behold

1231

01:00:19,030 --> 01:00:17,440

two weeks later in my office back in

1232

01:00:21,510 --> 01:00:19,040

houston i get this letter with the

1233

01:00:23,829 --> 01:00:21,520

citation on it about this criminal that

1234

01:00:26,390 --> 01:00:23,839

they had arrested uh at

1235

01:00:28,230 --> 01:00:26,400

the cape and uh i figured after enduring

1236

01:00:30,069 --> 01:00:28,240

that 20-minute lecture by that

1237

01:00:32,069 --> 01:00:30,079

overzealous security person he'd had

1238

01:00:34,710 --> 01:00:32,079

enough punishment and

1239

01:00:36,390 --> 01:00:34,720

we let him off the hook

1240

01:00:37,750 --> 01:00:36,400

after that he flew two more shuttle

1241

01:00:39,190 --> 01:00:37,760

missions uh

1242

01:00:41,510 --> 01:00:39,200

he was the

1243

01:00:44,230 --> 01:00:41,520

pilot on the space radar laboratory

1244

01:00:45,910 --> 01:00:44,240

mission and then he commanded sts-76 to

1245

01:00:46,870 --> 01:00:45,920

space uh to the mirror

1246

01:00:49,030 --> 01:00:46,880

uh

1247

01:00:51,109 --> 01:00:49,040

precursor to the space station also in

1248

01:00:52,870 --> 01:00:51,119

this time frame uh brewster retired and

1249

01:00:54,950 --> 01:00:52,880

left the office so max q that world

1250

01:00:57,990 --> 01:00:54,960

famous rock band needed a new rhythm

1251
01:01:00,549 --> 01:00:58,000
guitarist and chile stepped right in and

1252
01:01:02,870 --> 01:01:00,559
took over and did a great job at that

1253
01:01:04,710 --> 01:01:02,880
uh as he finished his flights he went

1254
01:01:06,710 --> 01:01:04,720
over he was a deputy program manager for

1255
01:01:08,710 --> 01:01:06,720
the international space station you know

1256
01:01:09,910 --> 01:01:08,720
things up there now working great well

1257
01:01:11,510 --> 01:01:09,920
he was in early development of the

1258
01:01:14,870 --> 01:01:11,520
operational procedures and played a key

1259
01:01:17,670 --> 01:01:14,880
role in the success of the space station

1260
01:01:19,990 --> 01:01:17,680
after that he returned to the air force

1261
01:01:21,109 --> 01:01:20,000
his his trend of excellence continued

1262
01:01:23,910 --> 01:01:21,119
there he

1263
01:01:26,470 --> 01:01:23,920

rapidly rose through the ranks and had a

1264

01:01:27,589 --> 01:01:26,480

variety of of command and uh and staff

1265

01:01:30,789 --> 01:01:27,599

billets

1266

01:01:33,430 --> 01:01:30,799

uh the last two uh were probably the

1267

01:01:35,829 --> 01:01:33,440

the greatest he was commander of uh the

1268

01:01:37,430 --> 01:01:35,839

u.s uh space command

1269

01:01:40,390 --> 01:01:37,440

and he was also the commander following

1270

01:01:42,230 --> 01:01:40,400

that of the strategic command and that's

1271

01:01:44,069 --> 01:01:42,240

where he got his fourth star the

1272

01:01:45,990 --> 01:01:44,079

strategic command was responsible or

1273

01:01:48,309 --> 01:01:46,000

there he had the responsibilities for

1274

01:01:50,309 --> 01:01:48,319

the plans and operations for all

1275

01:01:51,589 --> 01:01:50,319

u.s forces conducting strategic

1276

01:01:54,150 --> 01:01:51,599

deterrence

1277

01:01:56,549 --> 01:01:54,160

and also for all dod space and cyber

1278

01:01:58,789 --> 01:01:56,559

space operations so it was really a

1279

01:02:00,390 --> 01:01:58,799

significant role you know as he left the

1280

01:02:01,990 --> 01:02:00,400

office and having worked with him and

1281

01:02:03,990 --> 01:02:02,000

knew that he was you know really a sharp

1282

01:02:06,230 --> 01:02:04,000

guy i had him picked i figured he was

1283

01:02:07,430 --> 01:02:06,240

going to go back and get get four stars

1284

01:02:08,950 --> 01:02:07,440

and i kind of figured he was going to

1285

01:02:11,109 --> 01:02:08,960

end up being chief of staff of the air

1286

01:02:12,870 --> 01:02:11,119

force well chile proved to be smarter

1287

01:02:15,190 --> 01:02:12,880

than that chief of staff lives in the

1288

01:02:18,630 --> 01:02:15,200

pentagon does all his work in washington

1289

01:02:20,630 --> 01:02:18,640

so so chile lines up the the stratcom

1290

01:02:23,430 --> 01:02:20,640

where he's in omaha and he's doing real

1291

01:02:25,270 --> 01:02:23,440

operations and he did a really great job

1292

01:02:27,430 --> 01:02:25,280

at that also because throughout his

1293

01:02:28,870 --> 01:02:27,440

career uh you know he demonstrated

1294

01:02:30,870 --> 01:02:28,880

strong leadership

1295

01:02:33,109 --> 01:02:30,880

uh intelligence

1296

01:02:34,470 --> 01:02:33,119

exceptional intelligence unparalleled

1297

01:02:37,029 --> 01:02:34,480

devotion to duty

1298

01:02:38,630 --> 01:02:37,039

and visionary planning and to attest to

1299

01:02:40,710 --> 01:02:38,640

this

1300

01:02:42,789 --> 01:02:40,720

the key speakers at his uh air force

1301
01:02:43,670 --> 01:02:42,799
retirement and change of command

1302
01:02:45,829 --> 01:02:43,680
were

1303
01:02:47,829 --> 01:02:45,839
defense secretary gates

1304
01:02:50,470 --> 01:02:47,839
who was followed by chairman of the

1305
01:02:52,390 --> 01:02:50,480
joint chiefs of staff admiral mullen

1306
01:02:54,789 --> 01:02:52,400
followed by the chief of staff of the

1307
01:02:56,390 --> 01:02:54,799
air force general schwartz

1308
01:02:57,430 --> 01:02:56,400
and

1309
01:03:00,950 --> 01:02:57,440
chile

1310
01:03:05,109 --> 01:03:03,430
and i am honored to say that ladies and

1311
01:03:33,829 --> 01:03:05,119
gentlemen the newest member of the

1312
01:03:38,150 --> 01:03:36,390
well uh thank you skipper uh dan was my

1313
01:03:39,750 --> 01:03:38,160

first commander and we called him our

1314

01:03:41,589 --> 01:03:39,760

skipper since he was in the navy and

1315

01:03:43,670 --> 01:03:41,599

he's still my skipper thanks for those

1316

01:03:46,549 --> 01:03:43,680

kind words the part about the driving

1317

01:03:49,349 --> 01:03:46,559

though um coming through the gate there

1318

01:03:52,150 --> 01:03:49,359

of course i was stoned sober

1319

01:03:54,069 --> 01:03:52,160

so when this uh sergeant uh

1320

01:03:56,309 --> 01:03:54,079

had finished uh correcting my driving

1321

01:03:58,710 --> 01:03:56,319

skills and he asked who my boss was you

1322

01:04:03,029 --> 01:03:58,720

know i did one of these and dan did one

1323

01:04:06,710 --> 01:04:04,549

so i knew i knew i might get off a

1324

01:04:08,230 --> 01:04:06,720

little light that night

1325

01:04:09,349 --> 01:04:08,240

folks it's hard it's so hard for me i

1326

01:04:10,710 --> 01:04:09,359

was telling kathy when i was sitting

1327

01:04:12,470 --> 01:04:10,720

down i said i'm getting really nervous

1328

01:04:14,870 --> 01:04:12,480

you know and i've i've spoken in front

1329

01:04:15,990 --> 01:04:14,880

of a large crowds before certainly so

1330

01:04:17,829 --> 01:04:16,000

why

1331

01:04:19,589 --> 01:04:17,839

it's it's because i'm so

1332

01:04:22,390 --> 01:04:19,599

humbled by this right

1333

01:04:25,190 --> 01:04:22,400

and this is just such a tremendous honor

1334

01:04:27,829 --> 01:04:25,200

to be recognized by the folks who are

1335

01:04:29,750 --> 01:04:27,839

recognizing us today uh both

1336

01:04:31,349 --> 01:04:29,760

people that i grow up admiring here in

1337

01:04:33,430 --> 01:04:31,359

the first two rows

1338

01:04:35,990 --> 01:04:33,440

and in the in the back row folks that i

1339

01:04:38,150 --> 01:04:36,000

proudly call colleagues and friends

1340

01:04:40,470 --> 01:04:38,160

and and so to be standing last night on

1341

01:04:43,109 --> 01:04:40,480

the stage with franklin chang

1342

01:04:45,430 --> 01:04:43,119

and charlie precourt two great friends

1343

01:04:48,150 --> 01:04:45,440

great americans and two people that are

1344

01:04:49,589 --> 01:04:48,160

so deserving of this recognition

1345

01:04:51,190 --> 01:04:49,599

for me to have the opportunity to share

1346

01:04:52,470 --> 01:04:51,200

the stage with them and then to stand

1347

01:04:54,549 --> 01:04:52,480

here with this

1348

01:04:56,470 --> 01:04:54,559

tremendous legacy of our great space

1349

01:05:00,150 --> 01:04:56,480

program and of our great nation

1350

01:05:01,750 --> 01:05:00,160

um gives me pause and and i'm so so

1351

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

humbled by it

1352

01:05:05,270 --> 01:05:03,680

you know this is a day of thanks and you

1353

01:05:07,670 --> 01:05:05,280

have to be careful on days of thanks

1354

01:05:19,029 --> 01:05:07,680

that you might leave somebody out so

1355

01:05:22,069 --> 01:05:20,630

the other thing i want to clear up right

1356

01:05:23,430 --> 01:05:22,079

now because i've gotten some strange

1357

01:05:24,710 --> 01:05:23,440

looks since i've been down here this

1358

01:05:26,789 --> 01:05:24,720

week um

1359

01:05:29,270 --> 01:05:26,799

yes i really am kevin chilton

1360

01:05:32,630 --> 01:05:29,280

that guy up there with all the hair

1361

01:05:35,510 --> 01:05:34,150

i've had more double takes today people

1362

01:05:36,630 --> 01:05:35,520

look the last couple days they look at

1363

01:05:39,029 --> 01:05:36,640

that picture and they look at me and

1364

01:05:43,670 --> 01:05:39,039

said what happened to you

1365

01:05:49,270 --> 01:05:46,309

charlie charlie duke and lynn leblanc

1366

01:05:50,710 --> 01:05:49,280

from the asf i want to

1367

01:05:53,270 --> 01:05:50,720

commend you for just putting on a

1368

01:05:55,510 --> 01:05:53,280

wonderful show a wonderful event but

1369

01:05:57,430 --> 01:05:55,520

also for your leadership uh in with the

1370

01:05:58,710 --> 01:05:57,440

astronaut scholarship foundation and and

1371

01:06:00,150 --> 01:05:58,720

clearly

1372

01:06:02,870 --> 01:06:00,160

that's that's a big part of the hall of

1373

01:06:04,390 --> 01:06:02,880

fame here supporting that and uh to all

1374

01:06:05,829 --> 01:06:04,400

the scholars that are here today as

1375

01:06:07,589 --> 01:06:05,839

franklin says you have such a bright

1376

01:06:08,470 --> 01:06:07,599

future and i just hope sometime along

1377

01:06:09,670 --> 01:06:08,480

the way

1378

01:06:11,270 --> 01:06:09,680

that um

1379

01:06:12,710 --> 01:06:11,280

that you find a little time in your

1380

01:06:14,069 --> 01:06:12,720

careers your very interesting and

1381

01:06:15,670 --> 01:06:14,079

exciting careers that you have in front

1382

01:06:17,029 --> 01:06:15,680

of you to pay a little back to nasa and

1383

01:06:19,589 --> 01:06:17,039

come back and do a little work for this

1384

01:06:21,510 --> 01:06:19,599

great organization or perhaps for the

1385

01:06:22,789 --> 01:06:21,520

department of defense as well it's a

1386

01:06:24,630 --> 01:06:22,799

great way to bring your skills and

1387

01:06:26,150 --> 01:06:24,640

knowledge sets back to to help the

1388

01:06:28,470 --> 01:06:26,160

united states of america and i offer my

1389

01:06:30,630 --> 01:06:28,480

congratulations to all of you for being

1390

01:06:34,870 --> 01:06:30,640

astronaut scholarship fellows

1391

01:06:36,870 --> 01:06:34,880

um the to the panel that uh selected uh

1392

01:06:39,109 --> 01:06:36,880

us to this um

1393

01:06:40,150 --> 01:06:39,119

the chairman of that panel is uh mr bob

1394

01:06:44,470 --> 01:06:40,160

seek

1395

01:06:48,230 --> 01:06:46,710

so bob's not an astronaut he's sitting

1396

01:06:49,670 --> 01:06:48,240

down there he's a race car driver is

1397

01:06:51,750 --> 01:06:49,680

what he'll tell you

1398

01:06:53,430 --> 01:06:51,760

but uh i think all of us here left the

1399

01:06:56,230 --> 01:06:53,440

planet under the

1400

01:06:57,990 --> 01:06:56,240

watchful tutelage and guidance and

1401

01:07:02,309 --> 01:06:58,000

decision-making

1402

01:07:05,270 --> 01:07:02,319

control director and that was bob seek

1403

01:07:08,069 --> 01:07:05,280

every time i left the planet uh bob

1404

01:07:09,270 --> 01:07:08,079

uh when you said we were go i knew we

1405

01:07:12,309 --> 01:07:09,280

were going and i knew we were coming

1406

01:07:24,470 --> 01:07:12,319

back so bob thanks so much for

1407

01:07:28,150 --> 01:07:26,069

i too would like to thank my mother and

1408

01:07:29,750 --> 01:07:28,160

father who are alive and still with me

1409

01:07:31,190 --> 01:07:29,760

thankfully in southern california but

1410

01:07:33,270 --> 01:07:31,200

because of health reasons could not

1411

01:07:35,190 --> 01:07:33,280

travel to be with us here today

1412

01:07:37,270 --> 01:07:35,200

the four m's madison mary megan and

1413

01:07:39,029 --> 01:07:37,280

morgan are just the light of my lives

1414

01:07:41,589 --> 01:07:39,039

and guess what they're doing in may

1415

01:07:42,950 --> 01:07:41,599

studying for final exams so

1416

01:07:45,029 --> 01:07:42,960

we kathy and i thought it was more

1417

01:07:47,829 --> 01:07:45,039

important for them to finish that and um

1418

01:07:50,789 --> 01:07:47,839

so i'm so proud of of the four of them

1419

01:07:53,109 --> 01:07:50,799

and my hero you know folks always

1420

01:07:54,710 --> 01:07:53,119

accuse us astronauts of being heroes and

1421

01:07:56,230 --> 01:07:54,720

i tell them all the time you got it

1422

01:07:58,230 --> 01:07:56,240

wrong

1423

01:07:59,750 --> 01:07:58,240

picture this it's three o'clock in the

1424

01:08:01,349 --> 01:07:59,760

morning

1425

01:08:02,630 --> 01:08:01,359

standing on top of the roof of the

1426

01:08:04,230 --> 01:08:02,640

launch control center with a

1427

01:08:06,390 --> 01:08:04,240

six-year-old daughter in one hand a

1428

01:08:07,990 --> 01:08:06,400

four-year-old daughter in the other hand

1429

01:08:09,750 --> 01:08:08,000

a good friend of the family holding your

1430

01:08:11,829 --> 01:08:09,760

two-year-old daughter and you're eight

1431

01:08:13,430 --> 01:08:11,839

months pregnant and your husband's three

1432

01:08:16,070 --> 01:08:13,440

miles away sitting on top of four and a

1433

01:08:18,709 --> 01:08:16,080

half million pounds of high explosives

1434

01:08:20,950 --> 01:08:18,719

now who's the hero

1435

01:08:30,950 --> 01:08:20,960

it's my wife kathy

1436

01:08:33,990 --> 01:08:32,709

you know like franklin said

1437

01:08:36,630 --> 01:08:34,000

none of us could achieve anything in

1438

01:08:39,110 --> 01:08:36,640

life without a lot of help and there's a

1439

01:08:40,390 --> 01:08:39,120

whole long list of people i could list

1440

01:08:41,990 --> 01:08:40,400

but i'm not going to i'm going to

1441

01:08:43,669 --> 01:08:42,000

mention four people though that are with

1442

01:08:45,749 --> 01:08:43,679

us here today

1443

01:08:48,390 --> 01:08:45,759

because they affected my life early on

1444

01:08:50,870 --> 01:08:48,400

and i and they to me represent every one

1445

01:08:53,030 --> 01:08:50,880

of you in the audience and on stage here

1446

01:08:54,550 --> 01:08:53,040

and other people that aren't here today

1447

01:08:55,669 --> 01:08:54,560

who have helped me along the way through

1448

01:08:57,990 --> 01:08:55,679

my life

1449

01:08:59,910 --> 01:08:58,000

and that's a former major now retired

1450

01:09:02,550 --> 01:08:59,920

colonel bob smith and his wife cheryl

1451

01:09:05,030 --> 01:09:02,560

who was my first flight commander when i

1452

01:09:07,669 --> 01:09:05,040

was a first lieutenant flying rf4cs over

1453

01:09:09,349 --> 01:09:07,679

in okinawa and his and my boss at the

1454

01:09:12,229 --> 01:09:09,359

time then lieutenant colonel ken

1455

01:09:13,829 --> 01:09:12,239

habedank his wife karn now retired major

1456

01:09:15,269 --> 01:09:13,839

general ken haberdank

1457

01:09:17,189 --> 01:09:15,279

these two gentlemen

1458

01:09:18,229 --> 01:09:17,199

took a chance on me when i was a first

1459

01:09:20,149 --> 01:09:18,239

lieutenant

1460

01:09:21,829 --> 01:09:20,159

and they opened some doors that i'm

1461

01:09:24,070 --> 01:09:21,839

convinced started a dom series of

1462

01:09:25,910 --> 01:09:24,080

dominoes and the opening of other doors

1463

01:09:27,910 --> 01:09:25,920

and bridges to cross that never would

1464

01:09:29,749 --> 01:09:27,920

have happened ever would have happened

1465

01:09:31,829 --> 01:09:29,759

if these two great leaders of our united

1466

01:09:34,309 --> 01:09:31,839

states air force had not done that on

1467

01:09:36,390 --> 01:09:34,319

top of that these two men taught me at

1468

01:09:38,149 --> 01:09:36,400

an early age what it meant to lead

1469

01:09:39,749 --> 01:09:38,159

people and take care of them as did

1470

01:09:42,309 --> 01:09:39,759

their spouses who brought me in as a

1471

01:09:44,390 --> 01:09:42,319

young bachelor into their family so ken

1472

01:09:45,829 --> 01:09:44,400

and karen bob and cheryl god bless you

1473

01:09:47,590 --> 01:09:45,839

thank you for traveling here to be with

1474

01:09:49,110 --> 01:09:47,600

us here today and you represent so many

1475

01:10:00,310 --> 01:09:49,120

good things that have happened in my

1476

01:10:03,430 --> 01:10:02,310

and last night when we were coming home

1477

01:10:05,430 --> 01:10:03,440

from the

1478

01:10:07,669 --> 01:10:05,440

the wonderful dinner we had and gala

1479

01:10:08,950 --> 01:10:07,679

reception i was sitting on the bus in

1480

01:10:09,990 --> 01:10:08,960

front of karen

1481

01:10:21,270 --> 01:10:10,000

and

1482

01:10:22,630 --> 01:10:21,280

you really have three families

1483

01:10:24,470 --> 01:10:22,640

and i thought for a minute and i thought

1484

01:10:26,630 --> 01:10:24,480

you know you're right i have my wife

1485

01:10:28,229 --> 01:10:26,640

kathy and four beautiful daughters i

1486

01:10:31,830 --> 01:10:28,239

have a great air force family that i

1487

01:10:34,310 --> 01:10:31,840

started to be a member of in 1972

1488

01:10:36,149 --> 01:10:34,320

and i have this family the nasa family

1489

01:10:38,229 --> 01:10:36,159

what a blessed man i am to have three

1490

01:10:40,229 --> 01:10:38,239

families that love me and that i so

1491

01:10:54,950 --> 01:10:40,239

dearly love god bless you all and thanks

1492

01:10:58,709 --> 01:10:56,630

congratulations kevin chilton and

1493

01:11:01,270 --> 01:10:58,719

welcome to the united states astronaut

1494

01:11:03,110 --> 01:11:01,280

hall of fame

1495

01:11:04,790 --> 01:11:03,120

i remember bob seek you know after there

1496

01:11:06,790 --> 01:11:04,800

would be a delay and you know they'd

1497

01:11:08,470 --> 01:11:06,800

have to post bonus shuttle and he'd come

1498

01:11:10,630 --> 01:11:08,480

over and we'd have a little press

1499

01:11:12,390 --> 01:11:10,640

conference and bob used to always say

1500

01:11:14,630 --> 01:11:12,400

and i'd ask him and say bob

1501

01:11:16,790 --> 01:11:14,640

what went wrong why'd you have delay

1502

01:11:19,030 --> 01:11:16,800

bob roy said john

1503

01:11:21,430 --> 01:11:19,040

this is a complicated vehicle it's not a

1504

01:11:23,669 --> 01:11:21,440

747.

1505

01:11:26,470 --> 01:11:23,679

you always said that

1506

01:11:29,430 --> 01:11:26,480

our third inductee today is colonel

1507

01:11:31,830 --> 01:11:29,440

charles j precourt

1508

01:11:34,550 --> 01:11:31,840

a veteran of four space shuttle flights

1509

01:11:39,030 --> 01:11:34,560

charles precourt spent 15 years in the

1510

01:11:40,470 --> 01:11:39,040

space program and logged a total of 932

1511

01:11:43,110 --> 01:11:40,480

hours in space

1512

01:11:46,070 --> 01:11:43,120

as a mission specialist on sts 55

1513

01:11:48,709 --> 01:11:46,080

columbia he took part in nearly 90

1514

01:11:51,270 --> 01:11:48,719

experiments investigating life sciences

1515

01:11:54,229 --> 01:11:51,280

material sciences physics robotics

1516

01:11:57,110 --> 01:11:54,239

astronomy the earth and its atmosphere

1517

01:11:59,669 --> 01:11:57,120

on his second flight sts-71 pre-court

1518

01:12:01,669 --> 01:11:59,679

piloted the first space shuttle mission

1519

01:12:02,630 --> 01:12:01,679

to dock with the russian space station

1520

01:12:05,590 --> 01:12:02,640

mir

1521

01:12:08,310 --> 01:12:05,600

as commander of sts-84 he and the

1522

01:12:10,709 --> 01:12:08,320

atlantis crew transferred nearly four

1523

01:12:13,030 --> 01:12:10,719

tons of supplies and equipment between

1524

01:12:16,310 --> 01:12:13,040

the space shuttle and the mirror

1525

01:12:18,390 --> 01:12:16,320

on his final shuttle mission sts 91

1526

01:12:21,189 --> 01:12:18,400

pre-court served as commander during the

1527

01:12:23,590 --> 01:12:21,199

ninth and final shuttle mir docking

1528

01:12:25,590 --> 01:12:23,600

mission during which the crew conducted

1529

01:12:28,070 --> 01:12:25,600

the alpha magnetic spectrometer

1530

01:12:31,350 --> 01:12:28,080

experiment which involved first of its

1531

01:12:33,830 --> 01:12:31,360

kind research of antimatter in space

1532

01:12:36,470 --> 01:12:33,840

after leaving nasa in march 2005

1533

01:12:39,990 --> 01:12:36,480

pre-court went to work for atk

1534

01:12:42,630 --> 01:12:40,000

aerospace systems of magna utah he

1535

01:12:45,510 --> 01:12:42,640

currently serves as general manager and

1536

01:12:46,310 --> 01:12:45,520

vice president of space launch systems

1537

01:12:48,790 --> 01:12:46,320

for

1538

01:13:16,550 --> 01:12:48,800

atk let's take a look at some video

1539

01:13:20,070 --> 01:13:18,229

and everything's working really well for

1540

01:13:43,750 --> 01:13:20,080

us so we just wanted to take a couple of

1541

01:13:43,760 --> 01:13:55,270

together

1542

01:13:58,870 --> 01:13:57,189

the drag sheet shoot being deployed by

1543

01:14:12,149 --> 01:13:58,880

pilot trolley preport and nose gear

1544

01:14:16,390 --> 01:14:14,310

liftoff of the space shuttle atlantis

1545

01:14:46,070 --> 01:14:16,400

maintaining america's constant presence

1546

01:14:49,669 --> 01:14:47,590

charlie precourt preparing for his

1547

01:14:52,229 --> 01:14:49,679

fourth flight into space today

1548

01:14:55,350 --> 01:14:52,239

he served as commander of sts

1549

01:15:11,110 --> 01:14:55,360

84 and pilot on mission sts-71 and he

1550

01:15:32,070 --> 01:15:13,990

ladies and gentlemen

1551

01:15:35,510 --> 01:15:33,910

to present charles precourt for

1552

01:15:38,229 --> 01:15:35,520

induction into the united states

1553

01:15:48,310 --> 01:15:38,239

astronaut hall of fame please welcome

1554

01:15:53,030 --> 01:15:50,390

thank you very much and charlie thank

1555

01:15:55,750 --> 01:15:53,040

you so much for letting me be part of

1556

01:15:57,030 --> 01:15:55,760

your very special day this is really a

1557

01:15:59,990 --> 01:15:57,040

pleasure for me

1558

01:16:02,709 --> 01:16:00,000

charlie has some very important people

1559

01:16:05,590 --> 01:16:02,719

that are here today number one

1560

01:16:07,270 --> 01:16:05,600

his beautiful wife of 34 years lynn

1561

01:16:13,669 --> 01:16:07,280

sitting down here in the very front row

1562

01:16:19,030 --> 01:16:16,390

charlie also has two of his three

1563

01:16:21,669 --> 01:16:19,040

children here today michelle and amy

1564

01:16:23,430 --> 01:16:21,679

both of whom are overachievers as well

1565

01:16:25,750 --> 01:16:23,440

in medical school

1566

01:16:27,830 --> 01:16:25,760

his other daughter sarah would be here

1567

01:16:29,590 --> 01:16:27,840

but she's an overachiever as well she is

1568

01:16:32,550 --> 01:16:29,600

less than a month

1569

01:16:34,470 --> 01:16:32,560

from delivering their third grandchild

1570

01:16:38,149 --> 01:16:34,480

so he has some very important people

1571

01:16:39,430 --> 01:16:38,159

here today and extremely important

1572

01:16:42,630 --> 01:16:39,440

mom and dad

1573

01:16:45,350 --> 01:16:42,640

charles and helen precourt from hudson

1574

01:16:47,990 --> 01:16:45,360

massachusetts are here with us today mom

1575

01:16:58,790 --> 01:16:48,000

and dad congratulations you brought up a

1576

01:17:02,229 --> 01:17:00,550

you know my first thought about what i'm

1577

01:17:04,310 --> 01:17:02,239

going to do when i get up here is hey

1578

01:17:06,470 --> 01:17:04,320

this is a great opportunity for me to

1579

01:17:08,310 --> 01:17:06,480

roast charlie

1580

01:17:10,870 --> 01:17:08,320

and i got the thinking about it and

1581

01:17:12,550 --> 01:17:10,880

actually for once i was guilty of some

1582

01:17:14,229 --> 01:17:12,560

good judgment because it occurred to me

1583

01:17:16,070 --> 01:17:14,239

you know what

1584

01:17:18,070 --> 01:17:16,080

he's got a whole heck of a lot more on

1585

01:17:20,470 --> 01:17:18,080

me than i've got on him

1586

01:17:21,990 --> 01:17:20,480

so maybe it might be smart for a change

1587

01:17:22,709 --> 01:17:22,000

not to do that

1588

01:17:24,630 --> 01:17:22,719

so

1589

01:17:26,870 --> 01:17:24,640

i will tell you one joke i used to

1590

01:17:28,870 --> 01:17:26,880

subject him to all the time

1591

01:17:31,910 --> 01:17:28,880

and i used to tell him that his class

1592

01:17:32,950 --> 01:17:31,920

the 1990 class of astronauts prior to

1593

01:17:36,229 --> 01:17:32,960

them

1594

01:17:38,070 --> 01:17:36,239

we were all wooden ships and iron men

1595

01:17:41,030 --> 01:17:38,080

and starting with the 1990 class they

1596

01:17:42,950 --> 01:17:41,040

were all just a bunch of computer geeks

1597

01:17:44,790 --> 01:17:42,960

i used to subject him to that all the

1598

01:17:46,149 --> 01:17:44,800

time but you know what i figured out

1599

01:17:48,550 --> 01:17:46,159

about this man

1600

01:17:49,910 --> 01:17:48,560

he is good at absolutely everything he

1601
01:17:51,510 --> 01:17:49,920
touches

1602
01:17:53,669 --> 01:17:51,520
he is fluent

1603
01:17:55,430 --> 01:17:53,679
in french and russian

1604
01:17:57,430 --> 01:17:55,440
and as we mentioned he's a veteran of

1605
01:17:59,750 --> 01:17:57,440
four space shuttle flights but he got to

1606
01:18:01,910 --> 01:17:59,760
experience five mikos

1607
01:18:03,830 --> 01:18:01,920
miko being main engine cutoff and that's

1608
01:18:05,669 --> 01:18:03,840
when we launch and we get up to orbital

1609
01:18:06,950 --> 01:18:05,679
speed we shut the main engines down and

1610
01:18:09,189 --> 01:18:06,960
we get miko

1611
01:18:10,709 --> 01:18:09,199
charlie's first powered flight lasted

1612
01:18:12,229 --> 01:18:10,719
three seconds

1613
01:18:13,669 --> 01:18:12,239

and they shut down the main engines on

1614

01:18:15,430 --> 01:18:13,679

the launch pad

1615

01:18:16,870 --> 01:18:15,440

and of course he expected to be going a

1616

01:18:19,189 --> 01:18:16,880

little bit faster and of course you're

1617

01:18:21,030 --> 01:18:19,199

sitting there thinking i sure hope those

1618

01:18:22,550 --> 01:18:21,040

solid rocket motors don't choose to

1619

01:18:24,229 --> 01:18:22,560

ignite now

1620

01:18:27,110 --> 01:18:24,239

or that the bolts holding us to the

1621

01:18:29,590 --> 01:18:27,120

launch pad don't fire so he got to

1622

01:18:31,030 --> 01:18:29,600

experience in his career five mikos

1623

01:18:34,550 --> 01:18:31,040

along the way

1624

01:18:36,790 --> 01:18:34,560

i got to work with him on sts-71

1625

01:18:39,110 --> 01:18:36,800

as the chief astronaut at the time i

1626

01:18:41,110 --> 01:18:39,120

picked the very best and brightest crew

1627

01:18:42,950 --> 01:18:41,120

that i could put together

1628

01:18:45,430 --> 01:18:42,960

to go do the first docking that a space

1629

01:18:47,110 --> 01:18:45,440

shuttle ever did with the space station

1630

01:18:50,149 --> 01:18:47,120

mirror so of course

1631

01:18:52,070 --> 01:18:50,159

that meant charlie as the pilot i wasn't

1632

01:18:54,550 --> 01:18:52,080

planning on being there myself but i am

1633

01:18:56,550 --> 01:18:54,560

so happy that i got to fly and work and

1634

01:18:58,550 --> 01:18:56,560

train with charlie

1635

01:18:59,590 --> 01:18:58,560

and it was an absolute pleasure working

1636

01:19:01,590 --> 01:18:59,600

with him

1637

01:19:04,390 --> 01:19:01,600

biggest challenge for me on that mission

1638

01:19:06,630 --> 01:19:04,400

was not any of the flight dynamics or

1639

01:19:08,470 --> 01:19:06,640

any of the flying tasks

1640

01:19:11,270 --> 01:19:08,480

it was attempting underlying the word

1641

01:19:13,270 --> 01:19:11,280

attempting to learn to speak russian

1642

01:19:14,870 --> 01:19:13,280

because at the time most of the russians

1643

01:19:17,350 --> 01:19:14,880

really couldn't speak much of any

1644

01:19:20,070 --> 01:19:17,360

english and they couldn't afford at the

1645

01:19:22,790 --> 01:19:20,080

time to buy english textbooks or hire

1646

01:19:24,149 --> 01:19:22,800

english teachers so we had to attempt to

1647

01:19:25,510 --> 01:19:24,159

learn to speak russian and the problem

1648

01:19:28,310 --> 01:19:25,520

with that is

1649

01:19:30,550 --> 01:19:28,320

i are an engineer

1650

01:19:32,310 --> 01:19:30,560

engineers don't talk good

1651

01:19:34,630 --> 01:19:32,320

not even in english

1652

01:19:37,430 --> 01:19:34,640

and so trying to learn russian for me

1653

01:19:39,830 --> 01:19:37,440

was a real struggle and we had

1654

01:19:41,830 --> 01:19:39,840

a russian language teacher

1655

01:19:43,189 --> 01:19:41,840

this nice middle-aged russian lady

1656

01:19:49,030 --> 01:19:43,199

tatyana

1657

01:19:51,110 --> 01:19:49,040

impressed that we were astronauts

1658

01:19:52,950 --> 01:19:51,120

or that we were going to go do the first

1659

01:19:55,430 --> 01:19:52,960

mere docking

1660

01:19:57,430 --> 01:19:55,440

she expected us to study do our homework

1661

01:19:59,990 --> 01:19:57,440

and be able to speak russian and she'd

1662

01:20:01,669 --> 01:20:00,000

rattle off some sentence at us and greg

1663

01:20:03,750 --> 01:20:01,679

harbaugh and i would stare at her with

1664

01:20:05,750 --> 01:20:03,760

this deer in the headlights look and of

1665

01:20:07,110 --> 01:20:05,760

course charlie understood every single

1666

01:20:09,510 --> 01:20:07,120

word

1667

01:20:11,270 --> 01:20:09,520

i did apply myself and i've learned two

1668

01:20:13,030 --> 01:20:11,280

sentences in russian

1669

01:20:14,709 --> 01:20:13,040

anytime someone would try to speak to me

1670

01:20:18,629 --> 01:20:14,719

in russian i would say y'all go for you

1671

01:20:20,790 --> 01:20:18,639

porous ocean ploja epani mayo myonichivo

1672

01:20:25,350 --> 01:20:20,800

which is i speak russian very badly and

1673

01:20:29,750 --> 01:20:27,350

but i actually learned a second sentence

1674

01:20:32,550 --> 01:20:29,760

because when we launched aboard atlantis

1675

01:20:35,510 --> 01:20:32,560

we had anatoly soloviev and nikolai

1676

01:20:37,350 --> 01:20:35,520

budaran on our crew aboard atlantis

1677

01:20:39,910 --> 01:20:37,360

to take over the mere space station when

1678

01:20:41,750 --> 01:20:39,920

we got there and so what if i needed to

1679

01:20:44,790 --> 01:20:41,760

talk to them so i memorized another

1680

01:20:48,149 --> 01:20:44,800

sentence and it was is venice

1681

01:20:54,550 --> 01:20:50,070

which is excuse me please we have a

1682

01:20:58,629 --> 01:20:56,709

so i was ready in case that happened

1683

01:21:00,390 --> 01:20:58,639

training and readiness

1684

01:21:02,229 --> 01:21:00,400

is really what we've got to do

1685

01:21:04,310 --> 01:21:02,239

now the other thing was i've i've

1686

01:21:06,950 --> 01:21:04,320

mentioned how much

1687

01:21:08,870 --> 01:21:06,960

tatiana tormented us

1688

01:21:11,189 --> 01:21:08,880

well i learned an expression every time

1689

01:21:12,950 --> 01:21:11,199

i'd be really exasperated which was

1690

01:21:15,590 --> 01:21:12,960

every time we went to russian language

1691

01:21:17,030 --> 01:21:15,600

class i would look at tatyana and i

1692

01:21:20,310 --> 01:21:17,040

would say

1693

01:21:22,229 --> 01:21:20,320

maya lubimaya muchito nisa

1694

01:21:24,229 --> 01:21:22,239

and she'd say

1695

01:21:25,750 --> 01:21:24,239

which is of course no no no

1696

01:21:27,110 --> 01:21:25,760

because of my vast command of the

1697

01:21:29,110 --> 01:21:27,120

russian language

1698

01:21:32,709 --> 01:21:29,120

and what i was saying to her if i had

1699

01:21:35,270 --> 01:21:32,719

said moya samaya lubi maya uchi telnica

1700

01:21:37,189 --> 01:21:35,280

that's my most favorite teacher

1701

01:21:39,910 --> 01:21:37,199

but if you just put an m in front of

1702

01:21:42,470 --> 01:21:39,920

uchito niza it becomes maya samaya ruby

1703

01:21:46,310 --> 01:21:42,480

maya muchi tonicha which is my most

1704

01:21:52,470 --> 01:21:48,950

so that was my way of tormenting her in

1705

01:21:54,470 --> 01:21:52,480

return for all the stress

1706

01:21:56,629 --> 01:21:54,480

that she put me through

1707

01:21:59,030 --> 01:21:56,639

well after training and flying with

1708

01:22:01,910 --> 01:21:59,040

charlie and seeing him in action

1709

01:22:03,750 --> 01:22:01,920

i said something about him in 1995 and

1710

01:22:05,510 --> 01:22:03,760

charlie i don't think i've ever shared

1711

01:22:08,149 --> 01:22:05,520

this with you

1712

01:22:11,270 --> 01:22:08,159

but you're about to hear it

1713

01:22:12,870 --> 01:22:11,280

and what i said about him was you know

1714

01:22:14,149 --> 01:22:12,880

after working with him and getting to

1715

01:22:16,709 --> 01:22:14,159

know him

1716

01:22:18,870 --> 01:22:16,719

i will be really surprised if he isn't

1717

01:22:20,629 --> 01:22:18,880

chief astronaut one day

1718

01:22:21,750 --> 01:22:20,639

well guess what after four brilliant

1719

01:22:23,910 --> 01:22:21,760

missions

1720

01:22:25,910 --> 01:22:23,920

and three times going to the mere space

1721

01:22:28,709 --> 01:22:25,920

station including the very last docking

1722

01:22:31,430 --> 01:22:28,719

with mir in 1998

1723

01:22:32,950 --> 01:22:31,440

charlie became the chief astronaut

1724

01:22:34,149 --> 01:22:32,960

and he went on from there to be the

1725

01:22:35,990 --> 01:22:34,159

deputy

1726

01:22:38,790 --> 01:22:36,000

manager program manager of the

1727

01:22:43,510 --> 01:22:38,800

international space station and as we

1728

01:22:46,550 --> 01:22:43,520

know he is now the vice president at atk

1729

01:22:48,790 --> 01:22:46,560

he has gone right to the very top

1730

01:22:52,070 --> 01:22:48,800

in everything he's ever done

1731

01:22:52,870 --> 01:22:52,080

and we are all here today to celebrate

1732

01:22:55,270 --> 01:22:52,880

just

1733

01:22:57,350 --> 01:22:55,280

your latest great achievement

1734

01:22:59,669 --> 01:22:57,360

so from all of us at the astronaut

1735

01:23:01,750 --> 01:22:59,679

scholarship foundation

1736

01:23:35,189 --> 01:23:01,760

congratulations charlie and welcome to

1737

01:23:38,709 --> 01:23:36,950

thank you so much and i think you all

1738

01:23:41,910 --> 01:23:38,719

understand now i had so much fun flying

1739

01:23:44,390 --> 01:23:41,920

with hoot uh we used to say hootsa hoot

1740

01:23:45,669 --> 01:23:44,400

and uh there's nothing better

1741

01:23:48,070 --> 01:23:45,679

than when you have a tough mission than

1742

01:23:50,149 --> 01:23:48,080

to have a sense of humor and to stay

1743

01:23:52,390 --> 01:23:50,159

together as a team and who to always

1744

01:23:56,709 --> 01:23:52,400

respect what you've taught me and the

1745

01:24:01,270 --> 01:23:58,229

this is a tremendous honor it's

1746

01:24:02,709 --> 01:24:01,280

obviously very humbling

1747

01:24:04,870 --> 01:24:02,719

and i'm just really thrilled to be here

1748

01:24:05,910 --> 01:24:04,880

with you today and be able to share some

1749

01:24:09,030 --> 01:24:05,920

memories

1750

01:24:11,110 --> 01:24:09,040

uh and and the opportunity to join this

1751

01:24:14,149 --> 01:24:11,120

fraternity of folks who i think are

1752

01:24:16,870 --> 01:24:14,159

paying it back in spades

1753

01:24:18,709 --> 01:24:16,880

we've had opportunities in the space

1754

01:24:21,510 --> 01:24:18,719

program that go beyond our wildest

1755

01:24:23,350 --> 01:24:21,520

dreams and i'm very very thrilled

1756

01:24:24,149 --> 01:24:23,360

in particular

1757

01:24:25,990 --> 01:24:24,159

that

1758

01:24:27,910 --> 01:24:26,000

this represents the work of the

1759

01:24:29,189 --> 01:24:27,920

astronaut scholarship foundation who is

1760

01:24:31,910 --> 01:24:29,199

paying it back

1761

01:24:33,590 --> 01:24:31,920

and we get to be a part of that for

1762

01:24:35,270 --> 01:24:33,600

the students like we have out here today

1763

01:24:37,030 --> 01:24:35,280

that are inspiring us

1764

01:24:38,550 --> 01:24:37,040

for what we're able to do for them so

1765

01:24:40,470 --> 01:24:38,560

thank you to the astronaut scholarship

1766

01:24:49,110 --> 01:24:40,480

foundation for all all that you're doing

1767

01:24:53,189 --> 01:24:51,510

i'm particularly thrilled that i get to

1768

01:24:55,830 --> 01:24:53,199

be a part of the class of two of my

1769

01:24:58,390 --> 01:24:55,840

greatest personal heroes friends

1770

01:25:00,070 --> 01:24:58,400

associates colleagues

1771

01:25:02,070 --> 01:25:00,080

franklin chang diaz and i flew together

1772

01:25:02,950 --> 01:25:02,080

on sts-91

1773

01:25:04,870 --> 01:25:02,960

and

1774

01:25:06,629 --> 01:25:04,880

you know franklin is an amazing

1775

01:25:09,830 --> 01:25:06,639

individual

1776

01:25:11,350 --> 01:25:09,840

we put together an experiment on sts-91

1777

01:25:13,910 --> 01:25:11,360

that was part of

1778

01:25:15,669 --> 01:25:13,920

a nobel winners

1779

01:25:17,510 --> 01:25:15,679

science called the alpha magnetic

1780

01:25:19,910 --> 01:25:17,520

spectrometer

1781

01:25:22,149 --> 01:25:19,920

professor sam ting and

1782

01:25:25,110 --> 01:25:22,159

he is studying antimatter in the origins

1783

01:25:27,669 --> 01:25:25,120

of the universe and franklin's adeptness

1784

01:25:30,310 --> 01:25:27,679

at putting together missions like that

1785

01:25:32,070 --> 01:25:30,320

he taught a nobel laureate that human

1786

01:25:35,110 --> 01:25:32,080

space flight means you use the human

1787

01:25:36,870 --> 01:25:35,120

crew and franklin's design of how we

1788

01:25:39,750 --> 01:25:36,880

manage that experiment for professor

1789

01:25:41,910 --> 01:25:39,760

ting saved that experiment on orbit

1790

01:25:43,750 --> 01:25:41,920

because we lost our ku band antenna and

1791

01:25:44,950 --> 01:25:43,760

all the data that he wanted to collect

1792

01:25:46,470 --> 01:25:44,960

wouldn't have made it to earth but

1793

01:25:48,310 --> 01:25:46,480

franklin had figured out ahead of the

1794

01:25:50,550 --> 01:25:48,320

ahead of time how to make that happen

1795

01:25:52,310 --> 01:25:50,560

it's just a privilege to to be a part of

1796

01:25:55,750 --> 01:25:52,320

this class with you franklin

1797

01:25:58,550 --> 01:25:55,760

and and chile same chili was my mentor

1798

01:26:00,550 --> 01:25:58,560

uh otherwise known as upperclassmen

1799

01:26:02,149 --> 01:26:00,560

um just when i came up on the stage he

1800

01:26:04,229 --> 01:26:02,159

reminded me to get my chin in which is

1801

01:26:07,229 --> 01:26:04,239

what upperclassmen used to do when we

1802

01:26:10,070 --> 01:26:07,239

were dooley's freshman at the academy

1803

01:26:11,750 --> 01:26:10,080

1973 when i first went there and kevin's

1804

01:26:13,830 --> 01:26:11,760

always been a hero someone i looked up

1805

01:26:15,910 --> 01:26:13,840

to was the model for how to how to

1806

01:26:17,750 --> 01:26:15,920

proceed how to decide how to choose your

1807

01:26:22,550 --> 01:26:17,760

way in life it's just been a thrill and

1808

01:26:26,310 --> 01:26:24,470

the the astronaut scholarship foundation

1809

01:26:27,830 --> 01:26:26,320

is important as i mentioned because it's

1810

01:26:29,910 --> 01:26:27,840

all about the opportunity for us to pay

1811

01:26:31,669 --> 01:26:29,920

it forward to the next generation

1812

01:26:33,510 --> 01:26:31,679

and education is so critical when i

1813

01:26:35,510 --> 01:26:33,520

think about my own opportunities in life

1814

01:26:37,350 --> 01:26:35,520

and how much education meant to me

1815

01:26:39,110 --> 01:26:37,360

i think of my parents

1816

01:26:40,709 --> 01:26:39,120

mom and dad

1817

01:26:43,110 --> 01:26:40,719

the wisdom that they had to choose

1818

01:26:46,229 --> 01:26:43,120

hudson massachusetts a little town

1819

01:26:48,470 --> 01:26:46,239

where i went to a six-room schoolhouse

1820

01:26:50,070 --> 01:26:48,480

less than 100 yards from my house and i

1821

01:26:52,149 --> 01:26:50,080

learned that it wasn't so much about how

1822

01:26:55,030 --> 01:26:52,159

much money you pour into the facilities

1823

01:26:56,870 --> 01:26:55,040

and the tools but it's a teacher with a

1824

01:26:58,629 --> 01:26:56,880

motivation to teach

1825

01:27:00,550 --> 01:26:58,639

in an environment where it's conducive

1826

01:27:03,189 --> 01:27:00,560

to learning and engaging a student

1827

01:27:05,030 --> 01:27:03,199

one-on-one and imparting knowledge and

1828

01:27:06,790 --> 01:27:05,040

using that to leap frog forward and

1829

01:27:07,830 --> 01:27:06,800

thanks mom and dad for giving me that

1830

01:27:12,790 --> 01:27:07,840

start

1831

01:27:16,629 --> 01:27:14,950

so

1832

01:27:18,629 --> 01:27:16,639

and you think about all the changes in

1833

01:27:20,149 --> 01:27:18,639

life and in our lifetimes the changes

1834

01:27:22,390 --> 01:27:20,159

have been phenomenal

1835

01:27:23,910 --> 01:27:22,400

we grew up in the cold war and i went to

1836

01:27:25,910 --> 01:27:23,920

the air force academy thanks to the

1837

01:27:28,470 --> 01:27:25,920

education i had

1838

01:27:30,629 --> 01:27:28,480

and i found myself in the early 1980s

1839

01:27:33,110 --> 01:27:30,639

flying f-15s in germany

1840

01:27:34,709 --> 01:27:33,120

and uh i was flying to the east german

1841

01:27:37,030 --> 01:27:34,719

border this was before the wall came

1842

01:27:39,270 --> 01:27:37,040

down and lo and behold there's a mig on

1843

01:27:40,790 --> 01:27:39,280

the other side a meg aircraft coming

1844

01:27:42,149 --> 01:27:40,800

close to the border wagging its wings

1845

01:27:43,590 --> 01:27:42,159

and we'd wag our wings and we'd turn

1846

01:27:44,830 --> 01:27:43,600

away

1847

01:27:48,070 --> 01:27:44,840

and then a

1848

01:27:50,470 --> 01:27:48,080

mere station mirror but a mere six years

1849

01:27:52,149 --> 01:27:50,480

later i find myself

1850

01:27:54,310 --> 01:27:52,159

with our cold war warriors from the

1851
01:27:56,470 --> 01:27:54,320
other side the russians interfacing with

1852
01:27:57,510 --> 01:27:56,480
a young colonel by the name of a silly

1853
01:27:59,189 --> 01:27:57,520
sibling

1854
01:28:01,030 --> 01:27:59,199
who was my counterpart became my

1855
01:28:02,870 --> 01:28:01,040
counterpart as the chief of the

1856
01:28:04,950 --> 01:28:02,880
cosmonaut corps

1857
01:28:07,110 --> 01:28:04,960
but he was on the space station and who

1858
01:28:08,870 --> 01:28:07,120
would have imagined that as a guy who

1859
01:28:10,709 --> 01:28:08,880
used to be flying

1860
01:28:12,709 --> 01:28:10,719
to defend ourselves from them we were

1861
01:28:14,550 --> 01:28:12,719
collaborating in space a mere six years

1862
01:28:16,390 --> 01:28:14,560
later just a tremendous tremendous

1863
01:28:18,390 --> 01:28:16,400

change and to be a part of that is

1864

01:28:20,390 --> 01:28:18,400

extremely humbling

1865

01:28:22,310 --> 01:28:20,400

and then after that mission to be able

1866

01:28:25,669 --> 01:28:22,320

to have my wife and my daughters come

1867

01:28:28,070 --> 01:28:25,679

join me in star city moscow and to share

1868

01:28:29,669 --> 01:28:28,080

this momentous change in history and

1869

01:28:31,590 --> 01:28:29,679

that the fact that they had been behind

1870

01:28:33,990 --> 01:28:31,600

me for my entire career

1871

01:28:37,430 --> 01:28:34,000

love you lynn love you girls

1872

01:28:46,470 --> 01:28:39,990

we

1873

01:28:48,470 --> 01:28:46,480

parallel universe opened up for us

1874

01:28:50,470 --> 01:28:48,480

because when the cold war was there and

1875

01:28:52,950 --> 01:28:50,480

the iron curtain was up we had no way of

1876

01:28:55,430 --> 01:28:52,960

knowing that they lived dreamt and

1877

01:28:57,750 --> 01:28:55,440

imagined a future the same that we did

1878

01:28:59,669 --> 01:28:57,760

and my girls got to go to the elementary

1879

01:29:01,910 --> 01:28:59,679

school just down the street

1880

01:29:04,149 --> 01:29:01,920

from the parents of vasili sibilia and

1881

01:29:05,910 --> 01:29:04,159

experienced the same thing that

1882

01:29:09,430 --> 01:29:05,920

they were experiencing back home just

1883

01:29:10,790 --> 01:29:09,440

amazing amazing turns of events

1884

01:29:13,830 --> 01:29:10,800

so

1885

01:29:16,310 --> 01:29:13,840

as i think forward and

1886

01:29:18,390 --> 01:29:16,320

the connection as kevin mentioned the

1887

01:29:19,510 --> 01:29:18,400

families that we have and how blessed we

1888

01:29:21,270 --> 01:29:19,520

are

1889

01:29:22,950 --> 01:29:21,280

being able to connect my family to this

1890

01:29:24,870 --> 01:29:22,960

nasa experience has been really

1891

01:29:27,350 --> 01:29:24,880

incredible and i'd like to share one

1892

01:29:28,870 --> 01:29:27,360

little story with you an anecdote that i

1893

01:29:30,709 --> 01:29:28,880

hope you'll find as funny as we do

1894

01:29:33,110 --> 01:29:30,719

because our family loves to tell it our

1895

01:29:35,189 --> 01:29:33,120

daughter sarah couldn't be here today

1896

01:29:37,030 --> 01:29:35,199

but on my third mission on reentry we

1897

01:29:39,510 --> 01:29:37,040

had a very rare

1898

01:29:42,070 --> 01:29:39,520

condition where we were able to re-enter

1899

01:29:44,709 --> 01:29:42,080

from south or from north to south over

1900

01:29:46,950 --> 01:29:44,719

the u.s we entered over seattle and

1901

01:29:48,790 --> 01:29:46,960

transited the entire united states

1902

01:29:51,110 --> 01:29:48,800

across st louis into florida and landed

1903

01:29:53,750 --> 01:29:51,120

here at the kennedy space center

1904

01:29:56,070 --> 01:29:53,760

um normally we come from south to north

1905

01:29:58,629 --> 01:29:56,080

up over the the gulf and into florida

1906

01:30:00,149 --> 01:29:58,639

but this particular day was brilliant in

1907

01:30:02,629 --> 01:30:00,159

weather i don't think there was a cloud

1908

01:30:05,030 --> 01:30:02,639

across the entire united states we came

1909

01:30:06,870 --> 01:30:05,040

into the re-entry it was about 10 a.m

1910

01:30:07,830 --> 01:30:06,880

here and it was sunrise on the west

1911

01:30:09,189 --> 01:30:07,840

coast

1912

01:30:11,189 --> 01:30:09,199

and we came plowing through the

1913

01:30:13,110 --> 01:30:11,199

atmosphere at 40 degrees angle attack

1914

01:30:14,870 --> 01:30:13,120

and we went screaming across the rocky

1915

01:30:17,750 --> 01:30:14,880

mountains did a roll reversal over top

1916

01:30:20,149 --> 01:30:17,760

of st louis came in over the

1917

01:30:21,910 --> 01:30:20,159

northern end of the florida panhandle

1918

01:30:24,310 --> 01:30:21,920

down over the cape

1919

01:30:26,070 --> 01:30:24,320

and uh and made that circle to land well

1920

01:30:27,430 --> 01:30:26,080

we had a crosswind that day a pretty

1921

01:30:29,189 --> 01:30:27,440

good one

1922

01:30:31,430 --> 01:30:29,199

and as we rolled out on final right over

1923

01:30:32,790 --> 01:30:31,440

here to runway 3-3

1924

01:30:34,629 --> 01:30:32,800

i'm going to get

1925

01:30:36,550 --> 01:30:34,639

you know blame for flying with my hands

1926

01:30:38,229 --> 01:30:36,560

again hearing them but we had to crab

1927

01:30:39,750 --> 01:30:38,239

into the wind to tack into the wind to

1928

01:30:42,470 --> 01:30:39,760

maintain our track down the runway and

1929

01:30:44,550 --> 01:30:42,480

the families are adjacent to the runway

1930

01:30:46,229 --> 01:30:44,560

on the apron where they could almost

1931

01:30:48,950 --> 01:30:46,239

reach up and touch the orbiter as it

1932

01:30:51,189 --> 01:30:48,960

goes by for touchdown and sarah was what

1933

01:30:53,030 --> 01:30:51,199

about 12 years old at the time and and

1934

01:30:55,669 --> 01:30:53,040

i'm crabbed into the wind so the nose is

1935

01:30:57,910 --> 01:30:55,679

pointed right at her

1936

01:31:01,030 --> 01:30:57,920

and she thought i was landing right on

1937

01:31:05,270 --> 01:31:02,870

and so all the adults are behind the

1938

01:31:06,709 --> 01:31:05,280

kids and sarah's up there going dad get

1939

01:31:10,550 --> 01:31:06,719

over

1940

01:31:14,950 --> 01:31:12,790

so i came in and we touched down and i

1941

01:31:17,110 --> 01:31:14,960

had no idea she was out there and i got

1942

01:31:18,709 --> 01:31:17,120

to hear that story after we got into the

1943

01:31:21,270 --> 01:31:18,719

into the crew quarters and she came up

1944

01:31:25,270 --> 01:31:21,280

to me dad did you see me did you see me

1945

01:31:28,709 --> 01:31:26,870

as an air force guy we never had a

1946

01:31:30,950 --> 01:31:28,719

landing signal officer get us under the

1947

01:31:32,470 --> 01:31:30,960

deck of a ship but you're my first and

1948

01:31:42,070 --> 01:31:32,480

only landing signal officer and you did

1949

01:31:45,430 --> 01:31:42,950

i'd

1950

01:31:47,350 --> 01:31:45,440

once again i just feel tremendously

1951

01:31:49,830 --> 01:31:47,360

honored to be able to be part of this

1952

01:31:51,430 --> 01:31:49,840

team that now gets to pay it forward

1953

01:31:53,830 --> 01:31:51,440

for the next generation thank you so

1954

01:31:56,310 --> 01:31:53,840

much for this opportunity our family

1955

01:31:57,510 --> 01:31:56,320

connected to the nasa family is just the

1956

01:31:59,510 --> 01:31:57,520

most

1957

01:32:01,189 --> 01:31:59,520

unimaginably rewarding thing that we

1958

01:32:09,590 --> 01:32:01,199

could have ever had in our lifetime so

1959

01:32:13,510 --> 01:32:11,350

congratulations charlie precourt and

1960

01:32:14,950 --> 01:32:13,520

welcome to the u.s astronaut hall of

1961

01:32:17,669 --> 01:32:14,960

fame

1962

01:32:19,110 --> 01:32:17,679

the 2012 inductees were selected by a

1963

01:32:21,350 --> 01:32:19,120

committee of current hall of fame

1964

01:32:23,590 --> 01:32:21,360

astronauts former nasa officials

1965

01:32:25,510 --> 01:32:23,600

historians journalists the processes

1966

01:32:28,149 --> 01:32:25,520

administered by the astronauts

1967

01:32:30,390 --> 01:32:28,159

scholarship foundation to be eligible an

1968

01:32:34,470 --> 01:32:30,400

astronaut must have made his or her

1969

01:32:37,270 --> 01:32:34,480

first flight at least 17 years before

1970

01:32:39,350 --> 01:32:37,280

the induction year and must be retired

1971

01:32:40,950 --> 01:32:39,360

at least five years from the nasa

1972

01:32:43,189 --> 01:32:40,960

astronaut corps

1973

01:32:45,669 --> 01:32:43,199

candidates must be a u.s citizen nasa

1974

01:32:47,669 --> 01:32:45,679

trained commander pilot or mission

1975

01:32:50,390 --> 01:32:47,679

specialist and must have orbited the

1976

01:32:53,590 --> 01:32:50,400

earth at least once and made significant

1977

01:32:55,030 --> 01:32:53,600

contributions to the study of space

1978

01:32:56,790 --> 01:32:55,040

ladies and gentlemen i am proud to

1979

01:33:00,470 --> 01:32:56,800

present to you the united states

1980

01:33:03,350 --> 01:33:00,480

astronaut hall of fame class of 2012

1981

01:33:31,669 --> 01:33:03,360

frank leonard shang diaz kevin p chilton

1982

01:33:53,990 --> 01:33:33,510

and now all the members of the united

1983

01:33:58,390 --> 01:33:56,390

one final thank you to the astronaut

1984

01:34:00,950 --> 01:33:58,400

scholarship foundation for all of their

1985

01:34:02,709 --> 01:34:00,960

great work and to bill moore and his

1986

01:34:04,950 --> 01:34:02,719

people here at the kennedy space center

1987

01:34:07,510 --> 01:34:04,960

visitor complex you know this two-day

1988

01:34:09,510 --> 01:34:07,520

event that they put on here

1989

01:34:11,910 --> 01:34:09,520

it's not like going to the moon this is

1990

01:34:13,669 --> 01:34:11,920

hard work what they do

1991

01:34:15,510 --> 01:34:13,679

it has been my pleasure to be here with

1992

01:34:17,750 --> 01:34:15,520

you today on behalf of the kennedy space

1993

01:34:20,070 --> 01:34:17,760

center visitor complex and the astronaut

1994

01:34:23,270 --> 01:34:20,080

scholarship foundation thank you for

1995

01:34:24,629 --> 01:34:23,280

joining us for this historic ceremony

1996

01:34:27,189 --> 01:34:24,639

please remain standing as the hall of

1997

01:34:29,430 --> 01:34:27,199

fame astronauts make their grand exit