
PRESS.ORG
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CLUB
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PRES

1
00:00:08,720 --> 00:00:06,470
good afternoon and welcome to the

2
00:00:10,040 --> 00:00:08,730
National Press Club I'm mark Hamrick I

3
00:00:13,009 --> 00:00:10,050
am a broadcast journalist with the

4
00:00:15,169 --> 00:00:13,019
associated press on the 104th president

5
00:00:16,310 --> 00:00:15,179
of the National Press Club we are the

6
00:00:18,050 --> 00:00:16,320
world's leading professional

7
00:00:19,880 --> 00:00:18,060
organization for journalists committed

8
00:00:22,070 --> 00:00:19,890
to our professions future through

9
00:00:23,900 --> 00:00:22,080
programming events such as this while

10
00:00:26,300 --> 00:00:23,910
also working to foster a free press

11
00:00:27,830 --> 00:00:26,310
worldwide for more information about the

12
00:00:32,089 --> 00:00:27,840
National Press Club please visit our

13
00:00:33,709 --> 00:00:32,099

website at WWF and to donate to programs

14
00:00:35,420 --> 00:00:33,719
offer to the public through our Eric

15
00:00:38,060 --> 00:00:35,430
free time national journalism library

16
00:00:39,979 --> 00:00:38,070
you can see our website about that so on

17
00:00:41,660 --> 00:00:39,989
behalf of our members worldwide I'd like

18
00:00:43,490 --> 00:00:41,670
to welcome our speaker as well as those

19
00:00:45,110 --> 00:00:43,500
of you in our audience here today our

20
00:00:46,910 --> 00:00:45,120
head table includes guests of our

21
00:00:49,369 --> 00:00:46,920
speaker as well as working journalists

22
00:00:51,529 --> 00:00:49,379
and so if you hear applause in our

23
00:00:53,209 --> 00:00:51,539
audience we would note that members of

24
00:00:55,010 --> 00:00:53,219
the general public are in attendance and

25
00:00:57,590 --> 00:00:55,020
so it's not necessarily evidence of a

26
00:00:59,869 --> 00:00:57,600
lack of journalistic objectivity I'd

27
00:01:02,240 --> 00:00:59,879
also like to welcome our c-span our NASA

28
00:01:04,340 --> 00:01:02,250
television audiences as well as those

29
00:01:05,780 --> 00:01:04,350
who are on public radio our luncheons

30
00:01:07,399 --> 00:01:05,790
are also featured are our member

31
00:01:09,800 --> 00:01:07,409
produced weekly podcasts from the

32
00:01:12,500 --> 00:01:09,810
National Press Club available for free

33
00:01:14,149 --> 00:01:12,510
download via itunes you can also follow

34
00:01:17,990 --> 00:01:14,159
the action on twitter using the hashtag

35
00:01:20,480 --> 00:01:18,000
pound npc lunch after our guest speech

36
00:01:22,539 --> 00:01:20,490
concludes today we'll have QA and I'll

37
00:01:25,010 --> 00:01:22,549
ask as many questions as time permits

38
00:01:26,480 --> 00:01:25,020

captain Kelly is also kindly agreed to

39
00:01:28,819 --> 00:01:26,490
make some comments toward the end of the

40
00:01:30,950 --> 00:01:28,829
program today so for our head table

41
00:01:32,539 --> 00:01:30,960
guests i will introduce each of you and

42
00:01:34,249 --> 00:01:32,549
i'd ask each of you to stand up briefly

43
00:01:37,399 --> 00:01:34,259
as your name is announced we'll begin

44
00:01:39,530 --> 00:01:37,409
from your right Kendall lucky he is a

45
00:01:41,300 --> 00:01:39,540
writer and editor former deputy managing

46
00:01:43,719 --> 00:01:41,310
editor the kiplinger washington editors

47
00:01:46,580 --> 00:01:43,729
and a member of our speakers committee

48
00:01:49,039 --> 00:01:46,590
anthony shop he is director of client

49
00:01:51,770 --> 00:01:49,049
services with social driver and the

50
00:01:54,499 --> 00:01:51,780
dynamic chair of our events committee is

51
00:01:56,179 --> 00:01:54,509
doing fabulous job Jim asker is managing

52
00:01:59,959 --> 00:01:56,189
editor with aviation week and space

53
00:02:02,859 --> 00:01:59,969
technology David Weaver is associate

54
00:02:05,810 --> 00:02:02,869
administrator for communications at NASA

55
00:02:09,680 --> 00:02:05,820
Mark stencil managing editor for digital

56
00:02:12,020 --> 00:02:09,690
news at NPR and Captain Mark Kelly an

57
00:02:13,790 --> 00:02:12,030
astronaut two-time shuttle pilot

58
00:02:16,610 --> 00:02:13,800
two-time shuttle commander

59
00:02:18,740 --> 00:02:16,620
most recently commander of sts-134 the

60
00:02:20,420 --> 00:02:18,750
final mission for endeavour the only

61
00:02:23,000 --> 00:02:20,430
spouse of a member of Congress who has

62
00:02:24,800 --> 00:02:23,010
traveled in space and one of only two

63
00:02:26,780 --> 00:02:24,810

siblings who have traveled in space and

64
00:02:36,000 --> 00:02:26,790
is not just any member of Congress it's

65
00:02:40,989 --> 00:02:38,440
skip over this podium for a moment

66
00:02:43,300 --> 00:02:40,999
Melissa Charbonneau with news hook media

67
00:02:45,280 --> 00:02:43,310
and she is the very effective speakers

68
00:02:47,759 --> 00:02:45,290
committee chair who helps to get things

69
00:02:50,319 --> 00:02:47,769
going here for our speakers committee

70
00:02:53,619 --> 00:02:50,329
skip over the speaker for a moment leap

71
00:02:55,599 --> 00:02:53,629
harryman he is director of enps with

72
00:02:58,179 --> 00:02:55,609
Associated Press broadcast and organizer

73
00:03:00,879 --> 00:02:58,189
of today's luncheon he's organized two

74
00:03:02,470 --> 00:03:00,889
lunches in very short amount of time and

75
00:03:05,020 --> 00:03:02,480
we're extremely grateful for your work

76
00:03:09,039 --> 00:03:05,030
with that lead lori Garver is NASA

77
00:03:10,449 --> 00:03:09,049
deputy administrator Elaine kami is

78
00:03:13,800 --> 00:03:10,459
director in chief a rather

79
00:03:16,059 --> 00:03:13,810
editor-in-chief of aerospace America

80
00:03:17,709 --> 00:03:16,069
Chris Chambers professor of journalism

81
00:03:20,140 --> 00:03:17,719
at Georgetown University and a

82
00:03:22,920 --> 00:03:20,150
commentator for Russia today and RT

83
00:03:25,689 --> 00:03:22,930
America our partners in space Russia

84
00:03:27,550 --> 00:03:25,699
mark brender executive director with GOI

85
00:03:29,319 --> 00:03:27,560
foundation and also former vice

86
00:03:31,300 --> 00:03:29,329
president of communications at GOI and

87
00:03:34,360 --> 00:03:31,310
also former national security assignment

88
00:03:38,259 --> 00:03:34,370

editor radio correspondent and Pentagon

89
00:03:44,390 --> 00:03:38,269
producer at ABC News and now you can get

90
00:03:48,960 --> 00:03:47,070
well today's newsmaker luncheon is not

91
00:03:51,540 --> 00:03:48,970
just about administrator charlie bolden

92
00:03:54,000 --> 00:03:51,550
but it's also about the future of NASA

93
00:03:56,970 --> 00:03:54,010
which he leads it's about his vision

94
00:03:59,130 --> 00:03:56,980
President Barack Obama's vision and some

95
00:04:01,850 --> 00:03:59,140
daunting and even harsh budgetary

96
00:04:03,330 --> 00:04:01,860
realities and about how he will deliver

97
00:04:05,540 --> 00:04:03,340
headquartered here in the nation's

98
00:04:08,730 --> 00:04:05,550
capital with more than 18,000 employees

99
00:04:11,460 --> 00:04:08,740
many more working as contractors NASA

100
00:04:12,900 --> 00:04:11,470
also runs ten field centers seven test

101
00:04:15,060 --> 00:04:12,910
and research facilities around the

102
00:04:17,070 --> 00:04:15,070
nation at boasts of global leadership

103
00:04:20,220 --> 00:04:17,080
through a variety of strategic domestic

104
00:04:22,260 --> 00:04:20,230
and international relationships as we

105
00:04:23,760 --> 00:04:22,270
all know nASA has a rich history of

106
00:04:26,070 --> 00:04:23,770
unique scientific and technological

107
00:04:28,050 --> 00:04:26,080
achievement although it's most visible

108
00:04:29,550 --> 00:04:28,060
projects of late have been the Space

109
00:04:31,440 --> 00:04:29,560
Shuttle missions that much of the heavy

110
00:04:33,960 --> 00:04:31,450
lifting for the program for the past

111
00:04:35,820 --> 00:04:33,970
three decades the shuttle program now

112
00:04:38,010 --> 00:04:35,830
ending and no immediate replacement in

113
00:04:40,740 --> 00:04:38,020

sight critics have been skeptical of

114
00:04:42,600 --> 00:04:40,750
what NASA will or might become although

115
00:04:43,980 --> 00:04:42,610
our speaker insists there is no retreat

116
00:04:47,070 --> 00:04:43,990
from leadership in human space flight

117
00:04:49,380 --> 00:04:47,080
but a shift to doing even more more

118
00:04:51,090 --> 00:04:49,390
affordably building on NASA's strengths

119
00:04:53,610 --> 00:04:51,100
working with the private sector and

120
00:04:55,950 --> 00:04:53,620
partners it is important to understand

121
00:04:57,660 --> 00:04:55,960
what makes our speaker tick how I made

122
00:05:00,480 --> 00:04:57,670
it to the top of the nation's space

123
00:05:02,910 --> 00:05:00,490
agency only the second astronaut ever in

124
00:05:04,680 --> 00:05:02,920
that special role in just two weeks

125
00:05:06,900 --> 00:05:04,690
he'll begin his third year as NASA's

126
00:05:08,580 --> 00:05:06,910
12th administrator he will watch and

127
00:05:10,620 --> 00:05:08,590
celebrate the final space shuttle launch

128
00:05:13,410 --> 00:05:10,630
just one week from today if it goes off

129
00:05:16,350 --> 00:05:13,420
as scheduled a retired Major General his

130
00:05:18,150 --> 00:05:16,360
34-year marine career included 14 years

131
00:05:20,340 --> 00:05:18,160
as a member of NASA's astronaut office

132
00:05:23,970 --> 00:05:20,350
and he was named administrator by the

133
00:05:26,580 --> 00:05:23,980
president 2009 2002 President George W

134
00:05:27,980 --> 00:05:26,590
Bush tried unsuccessfully to name him

135
00:05:30,540 --> 00:05:27,990
the space agency's deputy administrator

136
00:05:32,820 --> 00:05:30,550
but the Pentagon insisted that he was

137
00:05:34,580 --> 00:05:32,830
too valuable to them and a brief review

138
00:05:36,750 --> 00:05:34,590

of his career may help to explain why

139
00:05:38,880 --> 00:05:36,760
born and raised at Columbia South

140
00:05:41,150 --> 00:05:38,890
Carolina his parents were educators a

141
00:05:44,010 --> 00:05:41,160
theme that is ingrained in his DNA

142
00:05:45,540 --> 00:05:44,020
according to his staff which they say

143
00:05:49,470 --> 00:05:45,550
helps explain a passion for education

144
00:05:51,150 --> 00:05:49,480
and to drive to inspire young people his

145
00:05:53,280 --> 00:05:51,160
father who served in the Army during

146
00:05:55,110 --> 00:05:53,290
World War two taught history and coached

147
00:05:56,880 --> 00:05:55,120
football so our guest speaker was

148
00:05:57,310 --> 00:05:56,890
naturally involved in sports while his

149
00:05:58,780 --> 00:05:57,320
mother

150
00:06:00,850 --> 00:05:58,790
captor son interested in the community

151
00:06:03,220 --> 00:06:00,860
and academics he was to meet his future

152
00:06:05,560 --> 00:06:03,230
bride Jackie when he was three years old

153
00:06:07,120 --> 00:06:05,570
their parents had been classmates and

154
00:06:09,970 --> 00:06:07,130
her mother and father were also local

155
00:06:11,860 --> 00:06:09,980
educators in high school he was the

156
00:06:14,820 --> 00:06:11,870
water boy for his father's football team

157
00:06:17,200 --> 00:06:14,830
good practice for working in Washington

158
00:06:19,270 --> 00:06:17,210
then the trainer manager into backup

159
00:06:20,830 --> 00:06:19,280
quarterback he stepped in and saved the

160
00:06:22,840 --> 00:06:20,840
day for a state championship game in

161
00:06:25,780 --> 00:06:22,850
1963 when the first-string quarterback

162
00:06:27,790 --> 00:06:25,790
was injured he grew up believing he

163
00:06:29,050 --> 00:06:27,800

could do anything with hard work and set

164
00:06:31,420 --> 00:06:29,060
his sights on an appointment to the

165
00:06:33,910 --> 00:06:31,430
Naval Academy something that just was

166
00:06:35,920 --> 00:06:33,920
not in the cards and the old segregation

167
00:06:38,500 --> 00:06:35,930
of South unable to get a recommendation

168
00:06:40,210 --> 00:06:38,510
he wrote Vice President Johnson but was

169
00:06:42,040 --> 00:06:40,220
told to write back when he was older

170
00:06:44,650 --> 00:06:42,050
after President Kennedy was assassinated

171
00:06:46,390 --> 00:06:44,660
and Johnson became president he wrote

172
00:06:48,310 --> 00:06:46,400
again and two weeks later a Navy

173
00:06:50,560 --> 00:06:48,320
recruiter knocked on his door in the

174
00:06:52,840 --> 00:06:50,570
rest is history at the Naval Academy he

175
00:06:55,180 --> 00:06:52,850
was elected president of his class he

176
00:06:57,370 --> 00:06:55,190
graduated in 1968 and was commissioned a

177
00:06:59,590 --> 00:06:57,380
second lieutenant in the Marines later a

178
00:07:02,380 --> 00:06:59,600
naval aviator stationed in Thailand he

179
00:07:04,770 --> 00:07:02,390
flew more than 100 sorties in an a6 a

180
00:07:07,240 --> 00:07:04,780
intruder over Vietnam Laos and Cambodia

181
00:07:09,190 --> 00:07:07,250
back home in the US and stationed in

182
00:07:10,930 --> 00:07:09,200
california he served in a variety of

183
00:07:14,380 --> 00:07:10,940
positions in the Marines and earned a

184
00:07:15,910 --> 00:07:14,390
masters from USC in 1977 he was then

185
00:07:19,090 --> 00:07:15,920
assigned to the naval test pilot school

186
00:07:21,010 --> 00:07:19,100
were completed training in 1979 one of

187
00:07:22,450 --> 00:07:21,020
our speakers mentors was Ron McNair who

188
00:07:25,060 --> 00:07:22,460

was killed in the Challenger disaster

189
00:07:26,770 --> 00:07:25,070
also from South Carolina it was McNair

190
00:07:30,430 --> 00:07:26,780
who convinced him to apply to the

191
00:07:32,080 --> 00:07:30,440
astronaut corps in 1980 he selected nasa

192
00:07:34,870 --> 00:07:32,090
selected our guest speaker as an

193
00:07:37,270 --> 00:07:34,880
astronaut candidate in 1981 he qualified

194
00:07:38,410 --> 00:07:37,280
his only one of eight Marines in the

195
00:07:40,210 --> 00:07:38,420
shuttle program in the first

196
00:07:42,760 --> 00:07:40,220
african-american marine to become an

197
00:07:45,640 --> 00:07:42,770
astronaut he flew for shuttle missions

198
00:07:47,170 --> 00:07:45,650
between 1986 and 94 2 as pilot to his

199
00:07:49,150 --> 00:07:47,180
commander his first included

200
00:07:50,770 --> 00:07:49,160
representative bill Nelson of Florida as

201
00:07:52,690 --> 00:07:50,780
congressional observer the first

202
00:07:55,300 --> 00:07:52,700
Hispanic American in space others

203
00:07:56,800 --> 00:07:55,310
included the it was on board there as

204
00:07:59,530 --> 00:07:56,810
well others included the mission that

205
00:08:01,360 --> 00:07:59,540
deployed the Hubble Space Telescope many

206
00:08:02,830 --> 00:08:01,370
important NASA's assignments ended when

207
00:08:04,960 --> 00:08:02,840
his return to the Marine Corps and

208
00:08:08,170 --> 00:08:04,970
deputy commandant of Midshipmen at the

209
00:08:09,820 --> 00:08:08,180
Naval Academy came about in 1997 he was

210
00:08:10,250 --> 00:08:09,830
named deputy commanding general the

211
00:08:12,590 --> 00:08:10,260
first

212
00:08:15,260 --> 00:08:12,600
reen expeditionary force in the Pacific

213
00:08:16,990 --> 00:08:15,270

during the first half of 1998 he served

214
00:08:20,300 --> 00:08:17,000
as commanding general the first Marine

215
00:08:23,090 --> 00:08:20,310
Force forward in support of Operation

216
00:08:24,620 --> 00:08:23,100
Desert Thunder in Kuwait in 1998 he was

217
00:08:27,080 --> 00:08:24,630
promoted to Major General named deputy

218
00:08:28,730 --> 00:08:27,090
commander of US forces in Japan he

219
00:08:30,440 --> 00:08:28,740
served as a commanding general the third

220
00:08:32,780 --> 00:08:30,450
Marine Aircraft wing at marine corps air

221
00:08:35,990 --> 00:08:32,790
station miramar in San Diego and then

222
00:08:37,880 --> 00:08:36,000
retired from Marine Corps in 2003 his

223
00:08:39,710 --> 00:08:37,890
many military decorations include the

224
00:08:41,870 --> 00:08:39,720
defense superior service medal and the

225
00:08:43,730 --> 00:08:41,880
Distinguished Flying Cross and he was

226
00:08:46,340 --> 00:08:43,740
inducted into the u.s. astronaut hall of

227
00:08:48,140 --> 00:08:46,350
fame in 2006 he and his wife have two

228
00:08:50,000 --> 00:08:48,150
children a son who is a marine corps

229
00:08:51,920 --> 00:08:50,010
lieutenant colonel and a daughter who is

230
00:08:54,110 --> 00:08:51,930
a medical doctor and he is a very proud

231
00:08:55,820 --> 00:08:54,120
grandfather as well so please give a

232
00:08:58,190 --> 00:08:55,830
warm in National Press Club welcome to a

233
00:08:59,780 --> 00:08:58,200
man who's worn many hats including a

234
00:09:11,900 --> 00:08:59,790
helmet or two and earned his stripes in

235
00:09:16,130 --> 00:09:14,540
mark thank you very much for that that

236
00:09:18,740 --> 00:09:16,140
introduction I can tell that my mother

237
00:09:21,770 --> 00:09:18,750
who is looking down us from heaven right

238
00:09:24,860 --> 00:09:21,780

now wrote it for you so she would love

239
00:09:27,190 --> 00:09:24,870
that I don't believe much of it it is an

240
00:09:30,820 --> 00:09:27,200
honor for me to be here with you today

241
00:09:34,100 --> 00:09:30,830
to say I mumbled is is to put it mildly

242
00:09:37,610 --> 00:09:34,110
looking out on this audience recognizing

243
00:09:40,010 --> 00:09:37,620
all of you who are here it's just a very

244
00:09:42,290 --> 00:09:40,020
humbling feeling to be here but to have

245
00:09:44,420 --> 00:09:42,300
this opportunity to represent what I

246
00:09:46,130 --> 00:09:44,430
think you're one of the two most

247
00:09:49,580 --> 00:09:46,140
incredible organizations on the face of

248
00:09:51,080 --> 00:09:49,590
the earth right now that being NASA the

249
00:09:54,230 --> 00:09:51,090
other organization is the United States

250
00:09:55,790 --> 00:09:54,240
Marine Corps so I'm especially proud

251
00:09:58,040 --> 00:09:55,800
though to be here to represent the NASA

252
00:10:01,640 --> 00:09:58,050
team to be joined by my deputy lori

253
00:10:03,380 --> 00:10:01,650
Garver who is a longtime space

254
00:10:05,150 --> 00:10:03,390
enthusiasts as a matter of fact and many

255
00:10:06,830 --> 00:10:05,160
of you probably know her because she ran

256
00:10:12,110 --> 00:10:06,840
the National Space Society for a while

257
00:10:15,500 --> 00:10:12,120
and is probably if not as much maybe

258
00:10:17,360 --> 00:10:15,510
even more of a space buff than I am we

259
00:10:20,000 --> 00:10:17,370
share something else in common she has a

260
00:10:21,680 --> 00:10:20,010
son who's 16 named Mitch who is a

261
00:10:24,440 --> 00:10:21,690
football player he's a good football

262
00:10:27,680 --> 00:10:24,450
player I was a lousy football player who

263
00:10:29,360 --> 00:10:27,690

just was blessed to to have my starting

264
00:10:31,850 --> 00:10:29,370
quarterback go down so that I could get

265
00:10:36,380 --> 00:10:31,860
in a game I could not throw I could not

266
00:10:39,080 --> 00:10:36,390
run I was a hit II quarterback as they

267
00:10:40,370 --> 00:10:39,090
call it and when when my my starting

268
00:10:42,050 --> 00:10:40,380
quarterback Algernon Goddard was

269
00:10:44,750 --> 00:10:42,060
interred injured my father looked down

270
00:10:47,810 --> 00:10:44,760
the bench and saw me I could see his

271
00:10:49,400 --> 00:10:47,820
heart just start to pound but he called

272
00:10:50,990 --> 00:10:49,410
me up and he told me to go in and his

273
00:10:52,610 --> 00:10:51,000
only words to me would do not throw the

274
00:10:56,060 --> 00:10:52,620
football

275
00:10:58,010 --> 00:10:56,070
and and I will tell you it was on the

276
00:11:00,890 --> 00:10:58,020
evening of the day that President

277
00:11:03,790 --> 00:11:00,900
Kennedy was assassinated so so for me it

278
00:11:07,190 --> 00:11:03,800
was a day that I shall long remember

279
00:11:09,050 --> 00:11:07,200
kind of a dark evening especially to be

280
00:11:11,660 --> 00:11:09,060
playing for the state championship in in

281
00:11:13,700 --> 00:11:11,670
South Carolina but when he sent me in

282
00:11:16,790 --> 00:11:13,710
and said don't throw the ball I went in

283
00:11:20,120 --> 00:11:16,800
and did my best and as the game was

284
00:11:21,740 --> 00:11:20,130
winding down my best friend Gary Bell

285
00:11:25,340 --> 00:11:21,750
came in with a play from the sideline

286
00:11:28,100 --> 00:11:25,350
and the play was 88 left that's a pass

287
00:11:31,310 --> 00:11:28,110
play and I looked to the bench at my dad

288
00:11:33,260 --> 00:11:31,320

and I knew that Gary had made this up

289
00:11:35,600 --> 00:11:33,270
because Gary was a tight in so i figured

290
00:11:39,110 --> 00:11:35,610
Gary had come in and called his own play

291
00:11:42,230 --> 00:11:39,120
and I looked at my dad and he said yeah

292
00:11:44,120 --> 00:11:42,240
so I called the play and faded back and

293
00:11:45,590 --> 00:11:44,130
through this wobbly pass out there and

294
00:11:47,870 --> 00:11:45,600
the good thing was geared was a really

295
00:11:49,160 --> 00:11:47,880
good tight in and he managed to catch

296
00:11:52,700 --> 00:11:49,170
the ball in the end zone and we won the

297
00:11:55,460 --> 00:11:52,710
game so I became a local hero for if

298
00:11:57,800 --> 00:11:55,470
only for a moment but but that is my

299
00:11:59,630 --> 00:11:57,810
that's my story of football mitch is

300
00:12:02,960 --> 00:11:59,640
much better than I am he is a very good

301
00:12:05,240 --> 00:12:02,970
quarterback and I kind of called him my

302
00:12:07,340 --> 00:12:05,250
adopted son sort of like or godson

303
00:12:11,630 --> 00:12:07,350
because I'm really impressed with his

304
00:12:14,090 --> 00:12:11,640
ability um also with us this you know in

305
00:12:16,250 --> 00:12:14,100
among the amazing group of astronauts

306
00:12:18,260 --> 00:12:16,260
who made the space shuttle program what

307
00:12:21,020 --> 00:12:18,270
it is today is Captain Mark Kelly who's

308
00:12:25,940 --> 00:12:21,030
already been introduced mark is a dear

309
00:12:27,410 --> 00:12:25,950
friend and probably more important is is

310
00:12:30,530 --> 00:12:27,420
the husband of a dear friend

311
00:12:32,360 --> 00:12:30,540
congresswoman gabrielle giffords pia her

312
00:12:35,270 --> 00:12:32,370
chief of staff is here right now and and

313
00:12:37,280 --> 00:12:35,280

Pia made a gift to me quite some time

314
00:12:39,200 --> 00:12:37,290
ago when I visited Gabby in the hospital

315
00:12:40,910 --> 00:12:39,210
in Houston once and it people asked me

316
00:12:42,830 --> 00:12:40,920
what are all these things you wear one

317
00:12:45,080 --> 00:12:42,840
is for my fraternity one is just a

318
00:12:48,410 --> 00:12:45,090
bracelet but this is my it's my I love

319
00:12:50,750 --> 00:12:48,420
Gabby band and so I wear that all the

320
00:12:53,090 --> 00:12:50,760
time and I was telling somebody well my

321
00:12:54,710 --> 00:12:53,100
wife always talks about these rings it

322
00:12:58,540 --> 00:12:54,720
has now become even more special because

323
00:13:00,500 --> 00:12:58,550
in a trip to Europe last couple of weeks

324
00:13:01,790 --> 00:13:00,510
we had an opportunity to have an

325
00:13:05,079 --> 00:13:01,800
audience with the Pope and the Pope

326
00:13:09,069 --> 00:13:05,089
blessed this so I counted it special

327
00:13:10,749 --> 00:13:09,079
for me anyway marks already been

328
00:13:12,160 --> 00:13:10,759
introduced in you know what what he has

329
00:13:14,920 --> 00:13:12,170
done but mark i want to thank you very

330
00:13:16,929 --> 00:13:14,930
much for for your dedication and for

331
00:13:19,299 --> 00:13:16,939
what you've done for nasa and the nation

332
00:13:21,189 --> 00:13:19,309
because it was very special something

333
00:13:22,600 --> 00:13:21,199
you did not have to do and i understand

334
00:13:24,189 --> 00:13:22,610
the sacrifice you went through so it's I

335
00:13:33,610 --> 00:13:24,199
mean incredibly pleased that you're here

336
00:13:35,590 --> 00:13:33,620
with us today and it goes without saying

337
00:13:39,989 --> 00:13:35,600
that our continued thoughts and prayers

338
00:13:42,280 --> 00:13:39,999

are with Gabby we watch her ongoing

339
00:13:45,309 --> 00:13:42,290
miraculous recovery and we just pray

340
00:13:48,129 --> 00:13:45,319
that that that continues one week from

341
00:13:50,860 --> 00:13:48,139
today NASA is going to launch its final

342
00:13:52,689 --> 00:13:50,870
space shuttle mission and we'll be

343
00:13:54,639 --> 00:13:52,699
turning the page on a remarkable period

344
00:13:56,679 --> 00:13:54,649
in America's history in space while

345
00:13:58,480 --> 00:13:56,689
beginning the next chapter in our

346
00:14:01,119 --> 00:13:58,490
nation's extraordinary story of

347
00:14:03,429 --> 00:14:01,129
exploration from the early exploits of

348
00:14:05,439 --> 00:14:03,439
Daniel Boone Lewis and Clark and Robert

349
00:14:08,439 --> 00:14:05,449
Peary to the breakthrough journeys of

350
00:14:11,169 --> 00:14:08,449
Alan Shepard and John Glenn Americans

351
00:14:13,829 --> 00:14:11,179
have always always been a curious people

352
00:14:16,239 --> 00:14:13,839
bold enough to imagine new worlds

353
00:14:19,629 --> 00:14:16,249
ingenious enough to chart a course to

354
00:14:21,879 --> 00:14:19,639
them and courageous enough to go for it

355
00:14:24,069 --> 00:14:21,889
and the gifts of knowledge and

356
00:14:26,019 --> 00:14:24,079
innovation that we have brought back

357
00:14:28,139 --> 00:14:26,029
from the unknown have played their part

358
00:14:30,819 --> 00:14:28,149
in the building of a more perfect union

359
00:14:32,769 --> 00:14:30,829
some say that our final shuttle mission

360
00:14:35,410 --> 00:14:32,779
will mark the end of America's 50-year

361
00:14:37,329 --> 00:14:35,420
dominance in human space flight as a

362
00:14:39,939 --> 00:14:37,339
former astronaut as the current NASA

363
00:14:42,369 --> 00:14:39,949

Administrator I'm here to tell you that

364
00:14:45,189 --> 00:14:42,379
American leadership in space will

365
00:14:47,230 --> 00:14:45,199
continue for at least at least the next

366
00:14:49,509 --> 00:14:47,240
half century because we've laid the

367
00:14:52,900 --> 00:14:49,519
foundation for success and for us at

368
00:14:55,299 --> 00:14:52,910
NASA failure is not an option once again

369
00:14:57,759 --> 00:14:55,309
we have the opportunity to raise the bar

370
00:15:00,489 --> 00:14:57,769
to demonstrate what human beings can do

371
00:15:02,530 --> 00:15:00,499
if we're challenged and inspired to

372
00:15:06,249 --> 00:15:02,540
reach for something just out of our

373
00:15:08,410 --> 00:15:06,259
grasp but not out of our sites President

374
00:15:11,319 --> 00:15:08,420
Obama has given us a mission with a

375
00:15:13,090 --> 00:15:11,329
capital M to focus again on the big

376
00:15:15,189 --> 00:15:13,100
picture of exploration in the crucial

377
00:15:17,499 --> 00:15:15,199
research and development that will be

378
00:15:19,000 --> 00:15:17,509
required for us to move beyond low-earth

379
00:15:20,590 --> 00:15:19,010
orbit he

380
00:15:23,850 --> 00:15:20,600
charged us with carrying out the

381
00:15:26,140 --> 00:15:23,860
inspiring missions that only NASA can do

382
00:15:28,600 --> 00:15:26,150
which will take us farther than we've

383
00:15:31,300 --> 00:15:28,610
ever been to orbit Mars and eventually

384
00:15:33,070 --> 00:15:31,310
land on it he's asked us to start

385
00:15:35,620 --> 00:15:33,080
planning a mission to an asteroid and

386
00:15:36,970 --> 00:15:35,630
right now our Dawn spacecraft is

387
00:15:39,880 --> 00:15:36,980
approaching one of the biggest in the

388
00:15:41,680 --> 00:15:39,890

solar system Vesta and we're scheduled

389
00:15:44,200 --> 00:15:41,690
to drop into orbit around that asteroid

390
00:15:47,050 --> 00:15:44,210
the middle of this month what it finds

391
00:15:49,780 --> 00:15:47,060
out could help inform such a future

392
00:15:51,730 --> 00:15:49,790
mission to an asteroid the president is

393
00:15:54,610 --> 00:15:51,740
asking us to harness that American

394
00:15:57,340 --> 00:15:54,620
spirit of innovation the drive to solve

395
00:15:59,590 --> 00:15:57,350
problems and create capabilities that is

396
00:16:02,440 --> 00:15:59,600
so embedded in our story and has led us

397
00:16:05,290 --> 00:16:02,450
to the moon to Great observatories and

398
00:16:08,650 --> 00:16:05,300
to humans living and working in space

399
00:16:11,380 --> 00:16:08,660
possibly indefinitely that American

400
00:16:13,360 --> 00:16:11,390
ingenuity is alive and well and it will

401
00:16:18,400 --> 00:16:13,370
fire up our economy and help us create

402
00:16:20,380 --> 00:16:18,410
and win the future now but only if we

403
00:16:22,930 --> 00:16:20,390
put aside our differences and come

404
00:16:26,470 --> 00:16:22,940
together to work hard dream big and

405
00:16:29,590 --> 00:16:26,480
imagine endless possibilities the Space

406
00:16:31,870 --> 00:16:29,600
Shuttle is an amazing vehicle amazing

407
00:16:33,940 --> 00:16:31,880
vehicle and the incredible program that

408
00:16:36,130 --> 00:16:33,950
it pioneered has taught us many things

409
00:16:39,310 --> 00:16:36,140
and helped make tomorrows exploration

410
00:16:41,260 --> 00:16:39,320
possible every shuttle mission has

411
00:16:44,260 --> 00:16:41,270
showcased the amazing talents and

412
00:16:47,170 --> 00:16:44,270
expertise of our astronauts in robotics

413
00:16:50,050 --> 00:16:47,180

and science each mission was different

414
00:16:52,330 --> 00:16:50,060
each was exceptional and challenging and

415
00:16:55,900 --> 00:16:52,340
expanded our capabilities as a nation

416
00:16:57,370 --> 00:16:55,910
and the world Atlantis's destination

417
00:17:00,250 --> 00:16:57,380
next week the International Space

418
00:17:03,190 --> 00:17:00,260
Station or ISS as we call it is the

419
00:17:05,170 --> 00:17:03,200
centerpiece the centerpiece of our human

420
00:17:09,430 --> 00:17:05,180
spaceflight activities for the coming

421
00:17:11,970 --> 00:17:09,440
decade and what a centerpiece it is with

422
00:17:13,900 --> 00:17:11,980
almost a million pounds of hardware

423
00:17:15,640 --> 00:17:13,910
measuring over the length of a football

424
00:17:19,319 --> 00:17:15,650
field and with an interior volume

425
00:17:22,620 --> 00:17:19,329
greater than a 747 aircraft traveling at

426
00:17:26,620 --> 00:17:22,630
17,500 miles per hour around the earth

427
00:17:28,920 --> 00:17:26,630
16 times every normal earth day it's

428
00:17:31,660 --> 00:17:28,930
occupied by an international crew of six

429
00:17:34,330 --> 00:17:31,670
actively participating in over 100

430
00:17:37,450 --> 00:17:34,340
search investigations at any given time

431
00:17:39,190 --> 00:17:37,460
in just a little over a decade the ISS

432
00:17:42,010 --> 00:17:39,200
has expanded our knowledge of man's

433
00:17:43,540 --> 00:17:42,020
ability to live and work in space and it

434
00:17:45,790 --> 00:17:43,550
has become one of the most important

435
00:17:50,320 --> 00:17:45,800
beacons of international cooperation as

436
00:17:52,480 --> 00:17:50,330
it orbits our earth the station is the

437
00:17:54,910 --> 00:17:52,490
pinnacle of our current achievement a

438
00:17:58,020 --> 00:17:54,920

stepping stone to the rest of the solar

439
00:18:00,520 --> 00:17:58,030
system and the tip of what comes next

440
00:18:02,980 --> 00:18:00,530
the shuttle allowed us to build and

441
00:18:04,900 --> 00:18:02,990
support the station and the orbiting

442
00:18:08,050 --> 00:18:04,910
outpost research capabilities are

443
00:18:11,200 --> 00:18:08,060
unprecedented the station has house more

444
00:18:14,320 --> 00:18:11,210
than 1,200 experiments today supporting

445
00:18:18,070 --> 00:18:14,330
more than 1,600 scientists representing

446
00:18:20,020 --> 00:18:18,080
59 countries worldwide every research

447
00:18:22,840 --> 00:18:20,030
investigation and all the systems that

448
00:18:24,700 --> 00:18:22,850
keep the ISS operational help us figure

449
00:18:28,720 --> 00:18:24,710
out how to explore farther from our

450
00:18:30,850 --> 00:18:28,730
planet and improve life here studies of

451
00:18:33,070 --> 00:18:30,860
how our bodies respond to a microgravity

452
00:18:35,440 --> 00:18:33,080
environment ensure that we can live and

453
00:18:37,480 --> 00:18:35,450
work successfully as we travel farther

454
00:18:39,760 --> 00:18:37,490
from Earth and help us better understand

455
00:18:42,460 --> 00:18:39,770
the impacts of medical conditions

456
00:18:45,160 --> 00:18:42,470
encountered both in space and here on

457
00:18:47,440 --> 00:18:45,170
earth solar power and water processing

458
00:18:50,260 --> 00:18:47,450
are two examples of how we are learning

459
00:18:53,830 --> 00:18:50,270
to better operate spacecraft independent

460
00:18:56,050 --> 00:18:53,840
of resources supplied from Earth we need

461
00:18:58,840 --> 00:18:56,060
to break the ties to our home planet and

462
00:19:02,380 --> 00:18:58,850
learn to live and work in space without

463
00:19:04,270 --> 00:19:02,390

direct dependence on earth the ISS can

464
00:19:07,510 --> 00:19:04,280
be a platform to us to learn these

465
00:19:09,730 --> 00:19:07,520
skills technology demonstrations on the

466
00:19:12,040 --> 00:19:09,740
ISS will support future missions and

467
00:19:14,680 --> 00:19:12,050
help us improve the reliability for

468
00:19:17,800 --> 00:19:14,690
instance of future life support systems

469
00:19:20,560 --> 00:19:17,810
and all the many other things we'll need

470
00:19:22,780 --> 00:19:20,570
to understand in depth to really become

471
00:19:26,200 --> 00:19:22,790
a spacefaring people who can safely

472
00:19:28,060 --> 00:19:26,210
reach our destinations so when I hear

473
00:19:30,730 --> 00:19:28,070
people say or listen to the media

474
00:19:34,150 --> 00:19:30,740
reports that the final shuttle flight

475
00:19:37,870 --> 00:19:34,160
marks the end of us human spaceflight I

476
00:19:39,620 --> 00:19:37,880
have to tell you you all must be living

477
00:19:43,440 --> 00:19:39,630
on another planet

478
00:19:45,060 --> 00:19:43,450
we are not ending human spaceflight we

479
00:19:47,390 --> 00:19:45,070
are recommitting ourselves to it and

480
00:19:50,670 --> 00:19:47,400
taking necessary and difficult steps

481
00:19:53,070 --> 00:19:50,680
today to ensure America's preeminence in

482
00:19:55,650 --> 00:19:53,080
human space exploration for years to

483
00:19:58,890 --> 00:19:55,660
come but we have to do things

484
00:20:00,120 --> 00:19:58,900
differently for one we have to get out

485
00:20:02,730 --> 00:20:00,130
of the business of owning and operating

486
00:20:05,630 --> 00:20:02,740
low-earth orbit transportation systems

487
00:20:07,740 --> 00:20:05,640
and hand that off to the private sector

488
00:20:09,630 --> 00:20:07,750

exercising sufficient oversight of

489
00:20:12,780 --> 00:20:09,640
course to ensure safety of our

490
00:20:15,060 --> 00:20:12,790
astronauts we need to focus on deep

491
00:20:17,460 --> 00:20:15,070
space exploration while empowering

492
00:20:20,400 --> 00:20:17,470
today's innovators and entrepreneurs to

493
00:20:22,680 --> 00:20:20,410
carry out the rest this new approach is

494
00:20:25,110 --> 00:20:22,690
get to getting our crews and cargo into

495
00:20:27,410 --> 00:20:25,120
orbit will create good jobs and expand

496
00:20:30,980 --> 00:20:27,420
opportunities to the American economy

497
00:20:34,440 --> 00:20:30,990
and let me be crystal clear about this I

498
00:20:37,380 --> 00:20:34,450
believe I believe that American

499
00:20:39,420 --> 00:20:37,390
companies and their spacecraft should

500
00:20:42,270 --> 00:20:39,430
send our astronauts to the International

501
00:20:44,100 --> 00:20:42,280
Space Station rather than continuing to

502
00:20:46,440 --> 00:20:44,110
outsource this work to foreign

503
00:20:49,170 --> 00:20:46,450
governments that's what this

504
00:20:51,810 --> 00:20:49,180
administration is committed to and that

505
00:20:53,850 --> 00:20:51,820
is what we're going to do along with

506
00:20:56,700 --> 00:20:53,860
supporting the ISS and Commercial Crew

507
00:20:59,070 --> 00:20:56,710
transportation NASA will pursue two

508
00:21:01,890 --> 00:20:59,080
critical building box for our deep space

509
00:21:03,720 --> 00:21:01,900
exploration feature a deep space crew

510
00:21:06,480 --> 00:21:03,730
vehicle and an evolvable heavy lift

511
00:21:08,610 --> 00:21:06,490
rocket and we will make the technology

512
00:21:11,820 --> 00:21:08,620
investments required to begin the era of

513
00:21:14,070 --> 00:21:11,830

deep space exploration today our

514
00:21:17,160 --> 00:21:14,080
destinations for human beings beyond

515
00:21:21,270 --> 00:21:17,170
earth remains ambitious they include the

516
00:21:24,150 --> 00:21:21,280
moon asteroids and Mars our investments

517
00:21:27,180 --> 00:21:24,160
in the systems research and technology

518
00:21:29,070 --> 00:21:27,190
for deep space will prioritize a logical

519
00:21:31,590 --> 00:21:29,080
sequence of future human exploration

520
00:21:34,010 --> 00:21:31,600
missions and forge a tighter bond

521
00:21:36,780 --> 00:21:34,020
between robotic and human exploration

522
00:21:41,730 --> 00:21:36,790
the debate is not if we're going to

523
00:21:44,040 --> 00:21:41,740
explore but how will do it not if there

524
00:21:46,710 --> 00:21:44,050
will be human spaceflight but the right

525
00:21:49,320 --> 00:21:46,720
path to the next generation of systems

526
00:21:52,830 --> 00:21:49,330
the shuttle is an expensive system to

527
00:21:55,500 --> 00:21:52,840
maintain it has served us well in

528
00:21:57,000 --> 00:21:55,510
we will but now is the time to cut the

529
00:21:59,549 --> 00:21:57,010
cost of transportation to low-earth

530
00:22:02,370 --> 00:21:59,559
orbit and foster the American Aerospace

531
00:22:04,799 --> 00:22:02,380
base and it's amazing potential to

532
00:22:08,279 --> 00:22:04,809
become a job-creating engine for decades

533
00:22:10,890 --> 00:22:08,289
to come NASA's 21st century mission will

534
00:22:13,100 --> 00:22:10,900
focus on the transportation systems that

535
00:22:16,019 --> 00:22:13,110
will carry us beyond where we have been

536
00:22:19,560 --> 00:22:16,029
to new destinations and new milestones

537
00:22:21,180 --> 00:22:19,570
in the annals of human history so we're

538
00:22:25,049 --> 00:22:21,190

one week from a very important

539
00:22:27,899 --> 00:22:25,059
spaceflight milestone but far far from

540
00:22:30,419 --> 00:22:27,909
the final one we celebrate the shuttles

541
00:22:33,510 --> 00:22:30,429
30 years of success which is longer than

542
00:22:35,399 --> 00:22:33,520
any other human spaceflight program the

543
00:22:37,740 --> 00:22:35,409
shuttle has expanded our picture of what

544
00:22:39,930 --> 00:22:37,750
it means to be an astronaut and we

545
00:22:41,519 --> 00:22:39,940
salute the hundreds of men and women who

546
00:22:48,240 --> 00:22:41,529
have carried out the program's missions

547
00:22:50,730 --> 00:22:48,250
both in space and on the ground we also

548
00:22:53,060 --> 00:22:50,740
remember the hard lessons that have

549
00:22:55,529 --> 00:22:53,070
helped us to continually improve safety

550
00:23:00,240 --> 00:22:55,539
we shall always remember the crews of

551
00:23:02,639 --> 00:23:00,250
STS 51 el Challenger and sts-107

552
00:23:06,930 --> 00:23:02,649
Columbia who made the ultimate sacrifice

553
00:23:09,440 --> 00:23:06,940
I spent 14 years at NASA before leaving

554
00:23:11,909 --> 00:23:09,450
and then returning to head the agency

555
00:23:15,360 --> 00:23:11,919
some of the people I respect most in the

556
00:23:17,190 --> 00:23:15,370
world are my fellow astronauts some of

557
00:23:20,279 --> 00:23:17,200
my best friends died flying on the

558
00:23:23,220 --> 00:23:20,289
shuttle and I'm not about to let human

559
00:23:25,409 --> 00:23:23,230
spaceflight go away on my watch I'm not

560
00:23:28,669 --> 00:23:25,419
going to let it flounder because we

561
00:23:32,310 --> 00:23:28,679
pursued a path that we could not sustain

562
00:23:34,110 --> 00:23:32,320
it's vital that we keep exploring not

563
00:23:36,360 --> 00:23:34,120

only so we can learn to live and work

564
00:23:40,080 --> 00:23:36,370
other places and find out what it means

565
00:23:42,720 --> 00:23:40,090
for us as the human race but also so the

566
00:23:45,480 --> 00:23:42,730
benefits of that exploration continue to

567
00:23:47,430 --> 00:23:45,490
return to Earth so we keep generating

568
00:23:49,680 --> 00:23:47,440
new knowledge about our planet and our

569
00:23:52,350 --> 00:23:49,690
universe and new solutions to the

570
00:23:55,950 --> 00:23:52,360
challenges our planet faces on many

571
00:23:57,419 --> 00:23:55,960
levels President Obama has put NASA and

572
00:23:59,639 --> 00:23:57,429
several other technology focused

573
00:24:03,330 --> 00:23:59,649
agencies at the forefront of innovation

574
00:24:06,190 --> 00:24:03,340
for our country we're pleased to be

575
00:24:08,320 --> 00:24:06,200
essential part of this national focus on

576
00:24:11,050 --> 00:24:08,330
development which will greatly improve

577
00:24:14,140 --> 00:24:11,060
our future and give coming generations

578
00:24:16,480 --> 00:24:14,150
more choices in how they face planetary

579
00:24:19,930 --> 00:24:16,490
challenges and seek knowledge about the

580
00:24:22,900 --> 00:24:19,940
universe beyond we will maintain and

581
00:24:25,870 --> 00:24:22,910
grow us leadership in space and derive

582
00:24:29,070 --> 00:24:25,880
all the benefits that flow from it tmrw

583
00:24:31,390 --> 00:24:29,080
space program is taking shape right now

584
00:24:33,280 --> 00:24:31,400
earlier this year I made a decision to

585
00:24:36,730 --> 00:24:33,290
base the new multi-purpose crew vehicle

586
00:24:39,010 --> 00:24:36,740
or MPCV our deep space crew module on

587
00:24:42,670 --> 00:24:39,020
the original work we've done on the

588
00:24:44,830 --> 00:24:42,680

Orion capsule the spacecraft will carry

589
00:24:46,720 --> 00:24:44,840
four astronauts for 21-day missions and

590
00:24:49,630 --> 00:24:46,730
be able to land in the Pacific Ocean off

591
00:24:51,670 --> 00:24:49,640
the California coast it's designed to be

592
00:24:54,460 --> 00:24:51,680
much safer during asset and entry than

593
00:24:56,530 --> 00:24:54,470
the shuttle we're nearing a decision on

594
00:24:59,560 --> 00:24:56,540
a heavy-lift rocket the Space Launch

595
00:25:02,410 --> 00:24:59,570
System or SLS and we'll announce that

596
00:25:04,750 --> 00:25:02,420
soon complemented by a host of

597
00:25:07,240 --> 00:25:04,760
technology developments these two

598
00:25:10,180 --> 00:25:07,250
systems will open up the entire solar

599
00:25:13,660 --> 00:25:10,190
system to us I have established program

600
00:25:15,190 --> 00:25:13,670
offices for both MPCV and SLS at the

601
00:25:16,390 --> 00:25:15,200
Johnson Space Center in Houston in the

602
00:25:19,000 --> 00:25:16,400
Marshall Space Flight Center in

603
00:25:20,530 --> 00:25:19,010
Huntsville Alabama respectively I've

604
00:25:22,600 --> 00:25:20,540
established our Commercial Crew program

605
00:25:24,910 --> 00:25:22,610
office at the Kennedy Space Center and

606
00:25:27,310 --> 00:25:24,920
we're going to work on upgrading the

607
00:25:29,290 --> 00:25:27,320
center's launch facilities one of our

608
00:25:31,620 --> 00:25:29,300
most valuable national resources to

609
00:25:34,360 --> 00:25:31,630
accommodate more kinds of users and

610
00:25:36,850 --> 00:25:34,370
speaking of those facilities at KSC and

611
00:25:38,500 --> 00:25:36,860
across the agency we've had a tremendous

612
00:25:40,420 --> 00:25:38,510
interest from our commercial space

613
00:25:42,910 --> 00:25:40,430

partners and reusing or leasing these

614
00:25:45,580 --> 00:25:42,920
assets and are close to making some

615
00:25:47,860 --> 00:25:45,590
major announcements about them soon the

616
00:25:50,410 --> 00:25:47,870
reuse of our unique NASA assets like the

617
00:25:52,150 --> 00:25:50,420
orbiter processing facilities will help

618
00:25:54,820 --> 00:25:52,160
these companies keep their costs down

619
00:25:57,550 --> 00:25:54,830
and create jobs for the space industry

620
00:25:59,590 --> 00:25:57,560
of tomorrow the atlantic regional

621
00:26:02,170 --> 00:25:59,600
spaceport is taking shape at our Wallops

622
00:26:04,060 --> 00:26:02,180
Flight Facility in Virginia one of the

623
00:26:06,270 --> 00:26:04,070
first customers will be orbital sciences

624
00:26:10,000 --> 00:26:06,280
corporation with its Taurus to rocket

625
00:26:13,090 --> 00:26:10,010
last week we issued a call for proposals

626
00:26:15,390 --> 00:26:13,100
for mission concepts studies of a solar

627
00:26:17,890 --> 00:26:15,400
electric propulsion system demonstration

628
00:26:20,050 --> 00:26:17,900
just one of the many technologies we

629
00:26:22,650 --> 00:26:20,060
need to advance and validate as we

630
00:26:25,150 --> 00:26:22,660
seek to reach those father destinations

631
00:26:26,650 --> 00:26:25,160
consider how the architectural options

632
00:26:29,860 --> 00:26:26,660
for human exploration of our solar

633
00:26:31,660 --> 00:26:29,870
system will change as we develop space

634
00:26:35,140 --> 00:26:31,670
technologies for which there is wide

635
00:26:38,470 --> 00:26:35,150
consensus we need veteran state in space

636
00:26:42,430 --> 00:26:38,480
propulsion refueling Depot Lowe's

637
00:26:44,790 --> 00:26:42,440
on-orbit inflatable habitats high

638
00:26:47,170 --> 00:26:44,800

reliability life support systems

639
00:26:50,740 --> 00:26:47,180
high-bandwidth communications adaptive

640
00:26:53,410 --> 00:26:50,750
avionics radiation protection integrated

641
00:26:56,050 --> 00:26:53,420
human and robotic systems and precision

642
00:26:56,950 --> 00:26:56,060
navigation our partners in the

643
00:26:59,560 --> 00:26:56,960
commercial orbital transportation

644
00:27:03,130 --> 00:26:59,570
services program SpaceX and Orbital

645
00:27:04,930 --> 00:27:03,140
Sciences continue to meet milestones the

646
00:27:06,640 --> 00:27:04,940
new participants in the second round of

647
00:27:08,740 --> 00:27:06,650
our Commercial Crew development program

648
00:27:11,650 --> 00:27:08,750
have just met their first set of

649
00:27:15,880 --> 00:27:11,660
milestones required by NASA and are on a

650
00:27:18,220 --> 00:27:15,890
path for continued success recently my

651
00:27:20,200 --> 00:27:18,230
deputy lori Garver and I have had the

652
00:27:21,820 --> 00:27:20,210
chance to visit facilities of some of

653
00:27:24,520 --> 00:27:21,830
our industry partners like Blue Origin

654
00:27:26,470 --> 00:27:24,530
and Sierra Nevada they're working

655
00:27:28,720 --> 00:27:26,480
diligently and the hardware and systems

656
00:27:32,350 --> 00:27:28,730
they're creating and testing are amazing

657
00:27:36,160 --> 00:27:32,360
the energy and ideas in the field are

658
00:27:38,320 --> 00:27:36,170
palpable all of this just the early days

659
00:27:41,560 --> 00:27:38,330
of our push into the next chapter of

660
00:27:43,600 --> 00:27:41,570
human spaceflight in addition to this

661
00:27:45,730 --> 00:27:43,610
human space to our human spaceflight

662
00:27:48,370 --> 00:27:45,740
progress we have a large number of

663
00:27:51,040 --> 00:27:48,380

amazing science missions coming up just

664
00:27:54,340 --> 00:27:51,050
in the next six months will launch Juno

665
00:27:56,230 --> 00:27:54,350
to Jupiter we put the dawn satellite I

666
00:27:58,090 --> 00:27:56,240
mentioned earlier into orbit around a

667
00:28:01,290 --> 00:27:58,100
giant asteroid in the main asteroid belt

668
00:28:03,970 --> 00:28:01,300
for the first time later this month in

669
00:28:05,980 --> 00:28:03,980
September we launched the twin Grail

670
00:28:08,110 --> 00:28:05,990
probes that will use changes in the

671
00:28:10,990 --> 00:28:08,120
moon's gravity to study its interior and

672
00:28:13,960 --> 00:28:11,000
the Curiosity rover hits from ours in

673
00:28:15,880 --> 00:28:13,970
November in the coming years will

674
00:28:17,980 --> 00:28:15,890
undertake many more world-class science

675
00:28:19,600 --> 00:28:17,990
missions to observe our planet reach

676
00:28:23,050 --> 00:28:19,610
destinations throughout the solar system

677
00:28:26,770 --> 00:28:23,060
and peered deeper into the universe at

678
00:28:28,480 --> 00:28:26,780
the same time will advance aeronautics

679
00:28:31,240 --> 00:28:28,490
research in partnership with other

680
00:28:33,680 --> 00:28:31,250
agencies and the aircraft industry to

681
00:28:35,360 --> 00:28:33,690
create a safer more environmentally

682
00:28:38,840 --> 00:28:35,370
friendly and efficient air travel

683
00:28:40,999 --> 00:28:38,850
network call next-gen it's true that the

684
00:28:43,789 --> 00:28:41,009
aerospace field faces many significant

685
00:28:48,100 --> 00:28:43,799
challenges but challenges can also serve

686
00:28:50,360 --> 00:28:48,110
as catalysts for innovation no doubt

687
00:28:53,210 --> 00:28:50,370
we're going to have to develop new ways

688
00:28:55,009 --> 00:28:53,220

of doing business the Orion government

689
00:28:57,680 --> 00:28:55,019
and industry team for example has shown

690
00:28:59,690 --> 00:28:57,690
exceptional creativity in finding ways

691
00:29:01,610 --> 00:28:59,700
to keep costs down through new

692
00:29:04,519 --> 00:29:01,620
management techniques technical

693
00:29:07,100 --> 00:29:04,529
solutions and innovation but right now

694
00:29:09,200 --> 00:29:07,110
at this historic moment America is

695
00:29:11,899 --> 00:29:09,210
leading once again by making hard

696
00:29:14,149 --> 00:29:11,909
choices that will define us a new we're

697
00:29:17,240 --> 00:29:14,159
taking those bold actions because that's

698
00:29:19,340 --> 00:29:17,250
what we need to do to create and win the

699
00:29:22,159 --> 00:29:19,350
future thanks to the many achievements

700
00:29:24,139 --> 00:29:22,169
of NASA and its partners the brave and

701
00:29:25,759 --> 00:29:24,149
talented men and women who have soared

702
00:29:28,639 --> 00:29:25,769
into space and developed so many

703
00:29:30,860 --> 00:29:28,649
cutting-edge science missions we now

704
00:29:33,919 --> 00:29:30,870
have a strong foundation from which to

705
00:29:35,840 --> 00:29:33,929
pursue these larger goals the Space

706
00:29:38,990 --> 00:29:35,850
Shuttle gave us tremendous insight into

707
00:29:42,230 --> 00:29:39,000
how humans can live travel and work in

708
00:29:44,810 --> 00:29:42,240
space because of the shuttle we have the

709
00:29:47,090 --> 00:29:44,820
ISS which is giving us the breakthroughs

710
00:29:49,159 --> 00:29:47,100
in human health research that will help

711
00:29:51,470 --> 00:29:49,169
us reach and return from those new

712
00:29:54,470 --> 00:29:51,480
destinations and inspire the next

713
00:29:57,499 --> 00:29:54,480

generation of leaders we have choices

714
00:30:00,110 --> 00:29:57,509
today do we want to keep repeating

715
00:30:02,720 --> 00:30:00,120
ourselves or do we want to look at the

716
00:30:05,409 --> 00:30:02,730
big horizon and do inspirational things

717
00:30:08,990 --> 00:30:05,419
we've always challenged ourselves to do

718
00:30:10,999 --> 00:30:09,000
my generation touched the moon together

719
00:30:15,379 --> 00:30:11,009
with those that followed we built the

720
00:30:17,690 --> 00:30:15,389
ISS today NASA and the nation wants to

721
00:30:20,990 --> 00:30:17,700
touch an asteroid and eventually send

722
00:30:23,210 --> 00:30:21,000
humans to Mars NASA is moving forward in

723
00:30:25,940 --> 00:30:23,220
making change because the status quo is

724
00:30:28,039 --> 00:30:25,950
no longer acceptable we need future

725
00:30:31,100 --> 00:30:28,049
generations to be able to do more than

726
00:30:33,019 --> 00:30:31,110
we can today the students and early

727
00:30:36,560 --> 00:30:33,029
career scientists and engineers I speak

728
00:30:40,369 --> 00:30:36,570
to around the world have a ton of energy

729
00:30:42,440 --> 00:30:40,379
and enthusiasm they're excited about the

730
00:30:44,899 --> 00:30:42,450
chance to do something new to be on the

731
00:30:47,210 --> 00:30:44,909
ground floor of the next big frontier of

732
00:30:49,310 --> 00:30:47,220
human exploration to put

733
00:30:52,340 --> 00:30:49,320
they're big ideas into practice and they

734
00:30:54,529 --> 00:30:52,350
should be if you're studying in a stem

735
00:30:57,049 --> 00:30:54,539
discipline today you're going to have a

736
00:30:59,000 --> 00:30:57,059
great career ahead of you not just at

737
00:31:03,890 --> 00:30:59,010
NASA but at other government agencies or

738
00:31:05,779 --> 00:31:03,900

in private industry or academia so when

739
00:31:10,430 --> 00:31:05,789
that final shuttle landing occurs and

740
00:31:12,560 --> 00:31:10,440
the cheers and tears subside we'll keep

741
00:31:18,320 --> 00:31:12,570
on moving toward where we want to go

742
00:31:20,149 --> 00:31:18,330
next your kids and my grandkids they're

743
00:31:23,450 --> 00:31:20,159
going to do things that today we can

744
00:31:25,130 --> 00:31:23,460
barely dream our nation has made great

745
00:31:27,169 --> 00:31:25,140
progress throughout its history by

746
00:31:29,600 --> 00:31:27,179
innovating solutions to meet grand

747
00:31:32,090 --> 00:31:29,610
challenges to build an Intercontinental

748
00:31:34,669 --> 00:31:32,100
railroad or land a man on the moon and

749
00:31:36,649 --> 00:31:34,679
return him safely to earth these

750
00:31:38,930 --> 00:31:36,659
challenges not only motivated a

751
00:31:41,210 --> 00:31:38,940
technological workforce they also

752
00:31:43,580 --> 00:31:41,220
created new technologies and innovation

753
00:31:45,830 --> 00:31:43,590
along the way these achievements

754
00:31:48,710 --> 00:31:45,840
inspired generations to pursue

755
00:31:51,380 --> 00:31:48,720
challenging goals created new industries

756
00:31:56,049 --> 00:31:51,390
and ultimately improved our country and

757
00:31:59,960 --> 00:31:56,059
our world 50 years ago a young president

758
00:32:03,080 --> 00:31:59,970
gave NASA a grand challenge one chosen

759
00:32:07,310 --> 00:32:03,090
not for its simplicity but for its

760
00:32:08,960 --> 00:32:07,320
audacity to as I quote best measure and

761
00:32:11,810 --> 00:32:08,970
organize our collective energies and

762
00:32:15,080 --> 00:32:11,820
skills unquote in accomplishing that

763
00:32:17,240 --> 00:32:15,090

goal NASA not only defined America it

764
00:32:18,980 --> 00:32:17,250
made a lasting imprint on the economic

765
00:32:23,029 --> 00:32:18,990
national security and geopolitical

766
00:32:26,270 --> 00:32:23,039
landscape of our time today we have

767
00:32:28,640 --> 00:32:26,280
another young President Barack Obama who

768
00:32:32,510 --> 00:32:28,650
has outlined an urgent national need to

769
00:32:35,510 --> 00:32:32,520
out-innovate out-educate and out-build

770
00:32:37,310 --> 00:32:35,520
our competitors and create new

771
00:32:39,770 --> 00:32:37,320
capabilities that will take us farther

772
00:32:42,940 --> 00:32:39,780
into the solar system and help us learn

773
00:32:45,380 --> 00:32:42,950
even more about our place in it

774
00:32:49,060 --> 00:32:45,390
President Obama not only honors the

775
00:32:51,980 --> 00:32:49,070
Kennedy Space legacy but also again

776
00:32:54,770 --> 00:32:51,990
challenges this nation with his vision

777
00:32:59,000 --> 00:32:54,780
for the next era of exploration and let

778
00:33:01,010 --> 00:32:59,010
me tell you NASA is ready for the grand

779
00:33:02,510 --> 00:33:01,020
challenge thank you all for blah

780
00:33:22,100 --> 00:33:02,520
see me by allowing me to be here I'll

781
00:33:26,340 --> 00:33:24,990
Thank You administrator and we have a

782
00:33:27,870 --> 00:33:26,350
lot of questions that are coming from

783
00:33:30,810 --> 00:33:27,880
the audience and as I mentioned earlier

784
00:33:33,450 --> 00:33:30,820
we want to give captain Kelly an

785
00:33:37,260 --> 00:33:33,460
opportunity to speak before the top of

786
00:33:38,910 --> 00:33:37,270
the hour I want to talk about the

787
00:33:41,900 --> 00:33:38,920
environment that we're now operating in

788
00:33:44,130 --> 00:33:41,910

Washington and the news of the day

789
00:33:46,320 --> 00:33:44,140
thematically within Washington involves

790
00:33:48,990 --> 00:33:46,330
the budgetary reality that I alluded to

791
00:33:51,770 --> 00:33:49,000
in my introduction it seems as if right

792
00:33:55,820 --> 00:33:51,780
now there are a lot of wheels in motion

793
00:33:58,200 --> 00:33:55,830
there seems to be a lot of risk to the

794
00:33:59,130 --> 00:33:58,210
federal funding environment in the sense

795
00:34:02,010 --> 00:33:59,140
that the White House and the Congress

796
00:34:04,500 --> 00:34:02,020
are trying to come to terms on an

797
00:34:06,720 --> 00:34:04,510
agreement that could include avoiding

798
00:34:09,000 --> 00:34:06,730
rather a dangerous debt ceiling deadline

799
00:34:11,130 --> 00:34:09,010
down the road so we have a short-term

800
00:34:14,190 --> 00:34:11,140
problem then we have a long-term problem

801
00:34:15,630 --> 00:34:14,200
can you talk about the risk to the work

802
00:34:18,930 --> 00:34:15,640
that you're talking about here in the

803
00:34:20,970 --> 00:34:18,940
short term as well as the intermediate

804
00:34:24,990 --> 00:34:20,980
or longer-term just because of this

805
00:34:27,870 --> 00:34:25,000
problem alone yeah I think as I've tried

806
00:34:29,820 --> 00:34:27,880
to say in my remarks you know America is

807
00:34:31,620 --> 00:34:29,830
the foremost leader in space exploration

808
00:34:33,930 --> 00:34:31,630
there is no question about that when I

809
00:34:35,520 --> 00:34:33,940
go travel overseas and talk to my

810
00:34:38,669 --> 00:34:35,530
international partners they acknowledge

811
00:34:40,290 --> 00:34:38,679
that we are going to explore we've set

812
00:34:42,720 --> 00:34:40,300
out a course set on a course where we're

813
00:34:44,370 --> 00:34:42,730

going to explore even father into deep

814
00:34:46,740 --> 00:34:44,380
space and our focus right now to be

815
00:34:49,350 --> 00:34:46,750
quite honest is I hope I I got you all

816
00:34:51,600 --> 00:34:49,360
to understand is isn't safely flying out

817
00:34:54,540 --> 00:34:51,610
the shuttle program that we started some

818
00:34:57,180 --> 00:34:54,550
six years ago with a very very well

819
00:34:59,100 --> 00:34:57,190
organized transition plan we're about to

820
00:35:00,890 --> 00:34:59,110
realize that mark flew the next to the

821
00:35:04,170 --> 00:35:00,900
last mission we're going to launch

822
00:35:06,300 --> 00:35:04,180
sts-135 next week bring it back safely

823
00:35:09,150 --> 00:35:06,310
to earth and effectively closed out the

824
00:35:11,490 --> 00:35:09,160
space shuttle program so we have at the

825
00:35:13,770 --> 00:35:11,500
2010 Authorization Act you know by

826
00:35:15,870 --> 00:35:13,780
produced by bipartisan vote of Congress

827
00:35:19,500 --> 00:35:15,880
signed into law by the President and

828
00:35:21,840 --> 00:35:19,510
then formulated door for supported with

829
00:35:24,540 --> 00:35:21,850
a full year CR that provides our funding

830
00:35:26,130 --> 00:35:24,550
right now again through bipartisan

831
00:35:28,200 --> 00:35:26,140
action in the Congress and signed into

832
00:35:30,270 --> 00:35:28,210
law by the president the elements of

833
00:35:33,000 --> 00:35:30,280
that act I talked about in my comments

834
00:35:34,240 --> 00:35:33,010
and so I'm very confident that in spite

835
00:35:37,240 --> 00:35:34,250
of all else that churn

836
00:35:39,550 --> 00:35:37,250
around us our future is bright it's most

837
00:35:42,220 --> 00:35:39,560
important though that that America

838
00:35:44,170 --> 00:35:42,230

remain the leader and and so our primary

839
00:35:46,630 --> 00:35:44,180
focus after shuttle is going to be to

840
00:35:49,270 --> 00:35:46,640
make sure that we have a viable domestic

841
00:35:50,920 --> 00:35:49,280
space industry so that we don't have to

842
00:35:52,000 --> 00:35:50,930
rely on international partners to get us

843
00:35:55,510 --> 00:35:52,010
to and from the International Space

844
00:35:58,060 --> 00:35:55,520
Station so it seems as if because of the

845
00:36:00,580 --> 00:35:58,070
budgetary environment that we're in that

846
00:36:03,250 --> 00:36:00,590
there's sort of a general acceptance of

847
00:36:05,230 --> 00:36:03,260
the idea that we need to hand off a good

848
00:36:07,330 --> 00:36:05,240
deal of this work to the private sector

849
00:36:09,340 --> 00:36:07,340
and in an environment where the wrist

850
00:36:12,610 --> 00:36:09,350
seems to be rising that essentially

851
00:36:15,460 --> 00:36:12,620
America can't afford a lot of things is

852
00:36:17,380 --> 00:36:15,470
the risk growing that the government

853
00:36:21,100 --> 00:36:17,390
can't be as much in the business of

854
00:36:23,020 --> 00:36:21,110
space in the future I mean if I let me

855
00:36:26,800 --> 00:36:23,030
step back for a minute because i want to

856
00:36:29,050 --> 00:36:26,810
remind everybody our turn to reliance on

857
00:36:31,540 --> 00:36:29,060
commercial entities for providing access

858
00:36:35,010 --> 00:36:31,550
to low Earth orbit actually started long

859
00:36:37,420 --> 00:36:35,020
before the the present economic crisis

860
00:36:38,980 --> 00:36:37,430
in the National Space Act of nineteen

861
00:36:40,360 --> 00:36:38,990
fifty-eight that established NASA had

862
00:36:42,070 --> 00:36:40,370
said you know to the greatest extent

863
00:36:45,160 --> 00:36:42,080

possible utilize commercially available

864
00:36:48,340 --> 00:36:45,170
assets to do our work we've been doing

865
00:36:51,670 --> 00:36:48,350
that for years in terms of Earth sensing

866
00:36:54,010 --> 00:36:51,680
data and the like the previous

867
00:36:55,960 --> 00:36:54,020
administration after the Columbia

868
00:36:58,360 --> 00:36:55,970
accident said we need to bring about a

869
00:37:01,030 --> 00:36:58,370
viable commercial space industry so that

870
00:37:03,370 --> 00:37:01,040
NASA can be about exploration so

871
00:37:04,690 --> 00:37:03,380
everyone has always known that owning

872
00:37:07,150 --> 00:37:04,700
and operating a low Earth orbit

873
00:37:09,190 --> 00:37:07,160
transportation system is not in the best

874
00:37:11,710 --> 00:37:09,200
interest of the nation that it detracts

875
00:37:14,110 --> 00:37:11,720
from the ability of our industry to grow

876
00:37:17,080 --> 00:37:14,120
and run that particular aspect of

877
00:37:18,640 --> 00:37:17,090
spaceflight so this did not start as a

878
00:37:21,430 --> 00:37:18,650
result of the crisis and it's not a

879
00:37:23,590 --> 00:37:21,440
response to our financial crisis it's

880
00:37:26,800 --> 00:37:23,600
the smart thing to do that's where we're

881
00:37:29,530 --> 00:37:26,810
at the moment the things okay you know

882
00:37:31,210 --> 00:37:29,540
as I said my first pledge when I became

883
00:37:33,670 --> 00:37:31,220
the NASA Administrator was to maintain

884
00:37:36,670 --> 00:37:33,680
the safety lookout for the safety of the

885
00:37:38,650 --> 00:37:36,680
crews going to and from space maintain

886
00:37:40,990 --> 00:37:38,660
the safety of crews operating on the

887
00:37:43,420 --> 00:37:41,000
International Space Station and that has

888
00:37:45,250 --> 00:37:43,430

not changed so we will safely fly out

889
00:37:46,510 --> 00:37:45,260
the shuttle safely operate station and

890
00:37:49,360 --> 00:37:46,520
then

891
00:37:51,160 --> 00:37:49,370
safely operate or oversee the operation

892
00:37:53,020 --> 00:37:51,170
of the commercial space entities I'm

893
00:37:56,200 --> 00:37:53,030
very confident that that's going to be

894
00:37:58,000 --> 00:37:56,210
done well I will tell you if you look at

895
00:37:59,440 --> 00:37:58,010
any any of the major companies today

896
00:38:01,990 --> 00:37:59,450
whether their entrepreneurial or

897
00:38:03,400 --> 00:38:02,000
otherwise in many of them you will see

898
00:38:06,040 --> 00:38:03,410
faces that are familiar to you because

899
00:38:07,660 --> 00:38:06,050
they will be former astronauts who are

900
00:38:10,330 --> 00:38:07,670
now in executive positions there if you

901
00:38:13,210 --> 00:38:10,340
look at SpaceX I've got Garrett riesling

902
00:38:15,550 --> 00:38:13,220
Ken Bowersox orbital sciences right here

903
00:38:18,640 --> 00:38:15,560
Frank Culbertson who is my fellow South

904
00:38:21,160 --> 00:38:18,650
Carolinian so i am very comforted and

905
00:38:23,680 --> 00:38:21,170
and confident that safety is not going

906
00:38:25,780 --> 00:38:23,690
to be compromised because we have NASA

907
00:38:27,340 --> 00:38:25,790
engineers scientists flight directors

908
00:38:29,500 --> 00:38:27,350
flight controllers who are now

909
00:38:31,990 --> 00:38:29,510
transitioning not out of the aerospace

910
00:38:34,870 --> 00:38:32,000
business but just to the new the new

911
00:38:36,940 --> 00:38:34,880
arena for lower lower flight lowest lows

912
00:38:38,470 --> 00:38:36,950
access to low-earth orbit so this isn't

913
00:38:41,440 --> 00:38:38,480

a new question but it's one that seems

914
00:38:43,630 --> 00:38:41,450
to persist to some degree we've had some

915
00:38:45,010 --> 00:38:43,640
of our greatest space heroes testify on

916
00:38:46,690 --> 00:38:45,020
capitol hill at hearings that you've

917
00:38:49,480 --> 00:38:46,700
been present at the Neil Armstrong and

918
00:38:51,640 --> 00:38:49,490
the like to say we think the national

919
00:38:53,590 --> 00:38:51,650
security is innately tied to the

920
00:38:55,720 --> 00:38:53,600
nation's space program and and there's a

921
00:38:58,030 --> 00:38:55,730
certain level uncomfortableness we have

922
00:39:00,100 --> 00:38:58,040
with doing business with international

923
00:39:03,220 --> 00:39:00,110
partners to some degree and also to some

924
00:39:06,040 --> 00:39:03,230
degree taking the tradition that we have

925
00:39:08,590 --> 00:39:06,050
within NASA and the government sector

926
00:39:12,220 --> 00:39:08,600
and transferring it to some degree to

927
00:39:13,810 --> 00:39:12,230
the private sector to what degree can

928
00:39:16,180 --> 00:39:13,820
you recognize the validity of the

929
00:39:19,600 --> 00:39:16,190
passionate argument that they make I

930
00:39:21,400 --> 00:39:19,610
would only say that everybody you

931
00:39:22,840 --> 00:39:21,410
mentioned I consider personal friends

932
00:39:24,280 --> 00:39:22,850
and I have the utmost respect for them

933
00:39:27,520 --> 00:39:24,290
many of them are my mentors and my

934
00:39:29,110 --> 00:39:27,530
heroes I just respectfully disagree with

935
00:39:31,990 --> 00:39:29,120
the positions that they have frequently

936
00:39:33,610 --> 00:39:32,000
taken because we are doing things that

937
00:39:36,370 --> 00:39:33,620
are in the national interest that will

938
00:39:38,890 --> 00:39:36,380

ensure our national security by

939
00:39:41,440 --> 00:39:38,900
producing a or facilitating the success

940
00:39:43,660 --> 00:39:41,450
of a viable commercial space entity for

941
00:39:46,450 --> 00:39:43,670
this nation we will grow our technology

942
00:39:48,280 --> 00:39:46,460
our jobs there is I think everyone will

943
00:39:51,100 --> 00:39:48,290
admit what is most important to the

944
00:39:53,290 --> 00:39:51,110
nation today is is increasing our

945
00:39:55,930 --> 00:39:53,300
technological workforce ensuring that

946
00:39:57,730 --> 00:39:55,940
our people have places to work and the

947
00:39:59,559 --> 00:39:57,740
space program that President Obama and

948
00:40:01,479 --> 00:39:59,569
visions and it is my task to care

949
00:40:03,699 --> 00:40:01,489
out with the help of our NASA

950
00:40:07,839 --> 00:40:03,709
contractors and civil servants is a

951
00:40:09,549 --> 00:40:07,849
viable vibrant commercial use to get to

952
00:40:13,479 --> 00:40:09,559
low-earth orbit while we go and explore

953
00:40:15,489 --> 00:40:13,489
I can't imagine when I flew the Hubble

954
00:40:17,289 --> 00:40:15,499
Space Telescope mission in 1990 the

955
00:40:19,329 --> 00:40:17,299
deploy mission I don't think anybody

956
00:40:21,069 --> 00:40:19,339
imagined what it would do to change our

957
00:40:24,759 --> 00:40:21,079
world to change our perspective on the

958
00:40:27,579 --> 00:40:24,769
universe without shuttle Hubble would

959
00:40:30,430 --> 00:40:27,589
not even be in existence today and it

960
00:40:34,900 --> 00:40:30,440
definitely would not be rewriting the

961
00:40:37,329 --> 00:40:34,910
textbooks on but on planetary science

962
00:40:40,059 --> 00:40:37,339
and other things of that nature we are

963
00:40:41,979 --> 00:40:40,069

going to continue to do that I was with

964
00:40:43,779 --> 00:40:41,989
some congressional interns earlier and I

965
00:40:45,999 --> 00:40:43,789
mentioned to them I asked if anybody had

966
00:40:48,189 --> 00:40:46,009
ever had a parent or a relative have to

967
00:40:50,170 --> 00:40:48,199
go to the hospital in an EMS vehicle and

968
00:40:52,390 --> 00:40:50,180
several of them said they had and I

969
00:40:54,130 --> 00:40:52,400
asked the question I said did it strike

970
00:40:55,989 --> 00:40:54,140
you as strange that when they arrived at

971
00:40:58,299 --> 00:40:55,999
the hospital the doctor knew everything

972
00:41:00,009 --> 00:40:58,309
about their vital signs knew exactly

973
00:41:03,039 --> 00:41:00,019
where to put them and everything I said

974
00:41:06,519 --> 00:41:03,049
that that was not planned that way it

975
00:41:08,229 --> 00:41:06,529
happened because we decided following

976
00:41:10,900 --> 00:41:08,239
President Kennedy that we were going to

977
00:41:12,549 --> 00:41:10,910
send humans to the moon and we realized

978
00:41:13,900 --> 00:41:12,559
all of a sudden you know quarter of a

979
00:41:16,839 --> 00:41:13,910
million miles is a long way we don't

980
00:41:19,509 --> 00:41:16,849
have that much cable so we have got to

981
00:41:22,620 --> 00:41:19,519
be able to find ways to know how the

982
00:41:25,269 --> 00:41:22,630
vibe how our astronauts are doing and so

983
00:41:28,359 --> 00:41:25,279
wireless communications wireless

984
00:41:30,640 --> 00:41:28,369
biomedical instrumentation developed not

985
00:41:32,499 --> 00:41:30,650
because we knew we needed it but because

986
00:41:34,599 --> 00:41:32,509
of necessity that's what space

987
00:41:37,209 --> 00:41:34,609
exploration does for us and that's why

988
00:41:40,269 --> 00:41:37,219

it's so important you know that that I

989
00:41:41,829 --> 00:41:40,279
be able to carry out President Obama's

990
00:41:43,479 --> 00:41:41,839
vision for increasing the amount of

991
00:41:45,880 --> 00:41:43,489
technological development that we do in

992
00:41:47,680 --> 00:41:45,890
this nation it is vital for our national

993
00:41:50,380 --> 00:41:47,690
security so you know I would say don't

994
00:41:52,539 --> 00:41:50,390
don't be fooled by a buddy who says that

995
00:41:54,160 --> 00:41:52,549
that space is not important that the

996
00:41:56,829 --> 00:41:54,170
things that we do are not important they

997
00:41:58,719 --> 00:41:56,839
are vital for our national security so

998
00:42:00,699 --> 00:41:58,729
you mentioned earlier that Orbital

999
00:42:03,249 --> 00:42:00,709
Sciences and SpaceX are the primary

1000
00:42:06,880 --> 00:42:03,259
private sector partners that you have

1001
00:42:09,400 --> 00:42:06,890
right now insofar as there is a great

1002
00:42:11,709 --> 00:42:09,410
deal of inter lap between defense

1003
00:42:12,990 --> 00:42:11,719
contracting and the space business how

1004
00:42:14,970 --> 00:42:13,000
do you guard against

1005
00:42:16,860 --> 00:42:14,980
for some of this technology two entities

1006
00:42:21,030 --> 00:42:16,870
governments that might be hostile to us

1007
00:42:23,250 --> 00:42:21,040
I don't have a real problem with that

1008
00:42:25,170 --> 00:42:23,260
because of the you know there are a lot

1009
00:42:27,240 --> 00:42:25,180
of laws that help me make sure that I

1010
00:42:29,400 --> 00:42:27,250
don't do that but let me since you

1011
00:42:32,220 --> 00:42:29,410
mentioned orbital in space X if i go

1012
00:42:34,620 --> 00:42:32,230
back to to how we're going to explore i

1013
00:42:36,480 --> 00:42:34,630

think you may have mentioned in my

1014
00:42:38,310 --> 00:42:36,490
introduction that that we're going to be

1015
00:42:39,840 --> 00:42:38,320
a while without being able to do things

1016
00:42:41,250 --> 00:42:39,850
in space and that's not entirely

1017
00:42:44,550 --> 00:42:41,260
accurate because i think you will find

1018
00:42:47,040 --> 00:42:44,560
that those two entities for example in

1019
00:42:49,950 --> 00:42:47,050
less than a year will be providing under

1020
00:42:51,540 --> 00:42:49,960
contract for us access to low Earth

1021
00:42:54,390 --> 00:42:51,550
orbit access to the International Space

1022
00:42:56,340 --> 00:42:54,400
Station for cargo the reason I talked

1023
00:42:58,710 --> 00:42:56,350
about the critical importance of a

1024
00:43:00,750 --> 00:42:58,720
domestic capability to get cargo and

1025
00:43:02,760 --> 00:43:00,760
crew to orbit is because if we don't

1026
00:43:04,380 --> 00:43:02,770
have to rely on on international

1027
00:43:06,930 --> 00:43:04,390
entities then there are certain things

1028
00:43:08,840 --> 00:43:06,940
that we can do domestically that that

1029
00:43:11,310 --> 00:43:08,850
take care of national security interest

1030
00:43:13,950 --> 00:43:11,320
growing an international partnership and

1031
00:43:15,900 --> 00:43:13,960
expanding our international outreach is

1032
00:43:18,120 --> 00:43:15,910
critical it's a it's a vital part of our

1033
00:43:21,150 --> 00:43:18,130
national security policy our national

1034
00:43:24,990 --> 00:43:21,160
space policy we need to have our own

1035
00:43:27,240 --> 00:43:25,000
integral domestic capability that's used

1036
00:43:29,280 --> 00:43:27,250
in times that it's critical for us to do

1037
00:43:30,870 --> 00:43:29,290
things alone the questioner asks

1038
00:43:32,460 --> 00:43:30,880

realistically how soon do you think a

1039
00:43:34,770 --> 00:43:32,470
commercial company will be flying

1040
00:43:36,270 --> 00:43:34,780
astronauts and as an aviator and an

1041
00:43:42,060 --> 00:43:36,280
astronaut yourself how would you feel

1042
00:43:45,930 --> 00:43:42,070
about flying commercial well I've I have

1043
00:43:47,820 --> 00:43:45,940
just said that I think we when we asked

1044
00:43:49,710 --> 00:43:47,830
the commercial entities how long it will

1045
00:43:52,320 --> 00:43:49,720
take and our previous experience is

1046
00:43:54,660 --> 00:43:52,330
about three years after we let the first

1047
00:43:58,020 --> 00:43:54,670
contract we should have a viable

1048
00:44:00,210 --> 00:43:58,030
commercial capability to take humans to

1049
00:44:01,590 --> 00:44:00,220
space and I think that's correct some of

1050
00:44:03,840 --> 00:44:01,600
them say they think it will take even

1051
00:44:06,570 --> 00:44:03,850
shorter but but we're saying about three

1052
00:44:08,190 --> 00:44:06,580
years so so roughly the 20 15 ish

1053
00:44:10,500 --> 00:44:08,200
timeframe if you want to put a date on

1054
00:44:12,450 --> 00:44:10,510
it would I what do I think about

1055
00:44:14,790 --> 00:44:12,460
commercial space if I were still an

1056
00:44:17,550 --> 00:44:14,800
active astronaut I wouldn't be standing

1057
00:44:20,070 --> 00:44:17,560
here touting it if I wouldn't be willing

1058
00:44:22,050 --> 00:44:20,080
to go it go get on it so people ask me

1059
00:44:24,120 --> 00:44:22,060
every once in a while would you fly if

1060
00:44:25,710 --> 00:44:24,130
offered the opportunity and I tell them

1061
00:44:30,510 --> 00:44:25,720
please don't tell my wife my answer

1062
00:44:32,460 --> 00:44:30,520
but in a heartbeat so if someone had the

1063
00:44:33,990 --> 00:44:32,470

money and it's been a parent through the

1064
00:44:35,940 --> 00:44:34,000
use of the Russian space program that

1065
00:44:37,650 --> 00:44:35,950
people do have the money to essentially

1066
00:44:39,839 --> 00:44:37,660
buy a ticket into space there are some

1067
00:44:41,430 --> 00:44:39,849
efforts underway to facilitate that in

1068
00:44:43,290 --> 00:44:41,440
greater fashion with Sir Richard

1069
00:44:45,359 --> 00:44:43,300
Branson's enterprise and so forth when

1070
00:44:50,670 --> 00:44:45,369
do you see that opportunity happening on

1071
00:44:52,380 --> 00:44:50,680
a more more appropriate basis I am I

1072
00:44:54,570 --> 00:44:52,390
don't want to try to give you a date but

1073
00:44:57,810 --> 00:44:54,580
I know that we're very very very close

1074
00:44:59,820 --> 00:44:57,820
to to having capability to do suborbital

1075
00:45:01,230 --> 00:44:59,830
flight which is not it's not what what

1076
00:45:03,180 --> 00:45:01,240
we're talking about when we send people

1077
00:45:04,620 --> 00:45:03,190
to the International Space Station but

1078
00:45:06,440 --> 00:45:04,630
it is the type of operation is to

1079
00:45:09,930 --> 00:45:06,450
Richard Branson wants to do where

1080
00:45:11,310 --> 00:45:09,940
scientists just plain people who want to

1081
00:45:13,950 --> 00:45:11,320
experience spaceflight have an

1082
00:45:15,720 --> 00:45:13,960
opportunity to launch do like Alan in

1083
00:45:17,880 --> 00:45:15,730
fact could say it's a repeat of the Alan

1084
00:45:20,160 --> 00:45:17,890
Shepard first light into space that's a

1085
00:45:22,080 --> 00:45:20,170
suborbital mission where one goes into

1086
00:45:24,359 --> 00:45:22,090
space and then comes back gets to view

1087
00:45:26,640 --> 00:45:24,369
our planet from an incredible vantage

1088
00:45:28,290 --> 00:45:26,650

point that many you know many people to

1089
00:45:30,810 --> 00:45:28,300
this date have not had an opportunity to

1090
00:45:32,490 --> 00:45:30,820
do I think that's around the corner and

1091
00:45:34,650 --> 00:45:32,500
when I say around the corner I mean not

1092
00:45:36,720 --> 00:45:34,660
that many years away if not within a

1093
00:45:37,859 --> 00:45:36,730
couple of years or so okay questioner

1094
00:45:39,359 --> 00:45:37,869
asks considering the number of

1095
00:45:41,400 --> 00:45:39,369
expeditions to the International Space

1096
00:45:43,290 --> 00:45:41,410
Station each year what is the future

1097
00:45:45,210 --> 00:45:43,300
they astronaut corps and how do you

1098
00:45:48,240 --> 00:45:45,220
attract motivate and retain those that

1099
00:45:50,150 --> 00:45:48,250
would be attracted to it the good thing

1100
00:45:52,890 --> 00:45:50,160
is I don't have any problem attracting

1101
00:45:55,230 --> 00:45:52,900
people to the astronaut corps i have a

1102
00:45:57,030 --> 00:45:55,240
problem rewarding all than all of them

1103
00:46:00,810 --> 00:45:57,040
often selecting out of the thousands

1104
00:46:03,720 --> 00:46:00,820
that apply i think though the fact that

1105
00:46:06,180 --> 00:46:03,730
America is the leading nation in terms

1106
00:46:09,240 --> 00:46:06,190
of exploration attracts young men and

1107
00:46:11,430 --> 00:46:09,250
women the fact that they can see that

1108
00:46:12,930 --> 00:46:11,440
there is a real possibility that they

1109
00:46:16,980 --> 00:46:12,940
can go to space and go to space very

1110
00:46:19,920 --> 00:46:16,990
soon because we are not leaving space

1111
00:46:21,480 --> 00:46:19,930
and we are going to be occupying the

1112
00:46:24,030 --> 00:46:21,490
International Space Station at least

1113
00:46:25,620 --> 00:46:24,040

till 2020 if not beyond and they see

1114
00:46:26,970 --> 00:46:25,630
that there are opportunities to fly in

1115
00:46:28,760 --> 00:46:26,980
space as soon as they can get in the

1116
00:46:31,290 --> 00:46:28,770
program and get trained there's no gap

1117
00:46:33,750 --> 00:46:31,300
we can get them there and we will get

1118
00:46:36,089 --> 00:46:33,760
them there the fact that they see that

1119
00:46:38,790 --> 00:46:36,099
we're trying to get a commercial entity

1120
00:46:39,069 --> 00:46:38,800
in place means that even more people

1121
00:46:40,809 --> 00:46:39,079
will

1122
00:46:42,249 --> 00:46:40,819
an opportunity to venture into space so

1123
00:46:43,870 --> 00:46:42,259
there there are a lot of things that I

1124
00:46:47,049 --> 00:46:43,880
think we're doing to attract young

1125
00:46:49,029 --> 00:46:47,059
people to you know to follow in my

1126
00:46:51,339 --> 00:46:49,039
footsteps I'm hoping that we will have

1127
00:46:52,749 --> 00:46:51,349
many more do that I understand we have a

1128
00:46:54,249 --> 00:46:52,759
member that astronaut corps that would

1129
00:46:56,289 --> 00:46:54,259
actually like to make a statement now so

1130
00:46:58,420 --> 00:46:56,299
i'll let you prepare us for that I will

1131
00:47:00,789 --> 00:46:58,430
and I think you know Mark Kelly really

1132
00:47:03,880 --> 00:47:00,799
needs no introduction he's he has become

1133
00:47:07,839 --> 00:47:03,890
quite a quite a figure after deciding

1134
00:47:10,839 --> 00:47:07,849
that he was going to split his time if

1135
00:47:13,170 --> 00:47:10,849
you will he is an incredible husband and

1136
00:47:15,069 --> 00:47:13,180
father and an even more incredible

1137
00:47:17,459 --> 00:47:15,079
commander for Space Shuttle missions

1138
00:47:20,289 --> 00:47:17,469

mark is a veteran of four flights

1139
00:47:22,089 --> 00:47:20,299
actually was the commander for sts-134

1140
00:47:24,519 --> 00:47:22,099
that recently landed and was the last

1141
00:47:25,660 --> 00:47:24,529
flight of endeavor I consider him a true

1142
00:47:33,730 --> 00:47:25,670
friend and Mark if you would come

1143
00:47:38,500 --> 00:47:36,400
good afternoon everybody it's great to

1144
00:47:42,310 --> 00:47:38,510
be here it's good to see some familiar

1145
00:47:45,850 --> 00:47:42,320
faces in the audience I appreciate the

1146
00:47:48,370 --> 00:47:45,860
kind words from general Bolden about the

1147
00:47:50,530 --> 00:47:48,380
time that I've spent at NASA it's been a

1148
00:47:53,770 --> 00:47:50,540
tremendous honor to be an astronaut and

1149
00:47:56,100 --> 00:47:53,780
to follow in the footsteps of some

1150
00:47:59,680 --> 00:47:56,110
really great pioneers like Alan Shepard

1151
00:48:02,109 --> 00:47:59,690
John Glenn Neil Armstrong and so many

1152
00:48:06,040 --> 00:48:02,119
others that have led us into the space

1153
00:48:09,400 --> 00:48:06,050
age since I joined NASA 15 years ago

1154
00:48:12,280 --> 00:48:09,410
I've been privileged to take four trips

1155
00:48:16,060 --> 00:48:12,290
into space all to the International

1156
00:48:21,370 --> 00:48:16,070
Space Station it's been a really an

1157
00:48:23,980 --> 00:48:21,380
amazing ride as I watched ISS just fade

1158
00:48:26,500 --> 00:48:23,990
away in the distance when I last a

1159
00:48:30,430 --> 00:48:26,510
parted space station on the thirtieth of

1160
00:48:33,550 --> 00:48:30,440
may I couldn't help but think that what

1161
00:48:38,109 --> 00:48:33,560
an amazing accomplishment this has all

1162
00:48:40,930 --> 00:48:38,119
been American ingenuity and the vision

1163
00:48:44,440 --> 00:48:40,940

to build a strong international

1164
00:48:48,070 --> 00:48:44,450
partnership is what made this such a

1165
00:48:51,010 --> 00:48:48,080
great success with the addition of the

1166
00:48:53,590 --> 00:48:51,020
Alpha Magnetic Spectrometer which we

1167
00:48:57,450 --> 00:48:53,600
installed on Space Station just six

1168
00:49:01,500 --> 00:48:57,460
weeks ago we now have a completed and

1169
00:49:04,900 --> 00:49:01,510
incredibly capable laboratory in space I

1170
00:49:07,540 --> 00:49:04,910
expect that this new instrument will

1171
00:49:11,170 --> 00:49:07,550
revolutionize particle physics research

1172
00:49:14,140 --> 00:49:11,180
and add to the significant discoveries

1173
00:49:17,080 --> 00:49:14,150
that will certainly be the legacy of the

1174
00:49:19,840 --> 00:49:17,090
space station program now has anybody

1175
00:49:24,190 --> 00:49:19,850
heard of the AMS in this office I see a

1176
00:49:26,170 --> 00:49:24,200
lot of a lot of no's so AMS was a two

1177
00:49:28,630 --> 00:49:26,180
billion dollar cosmic particle detector

1178
00:49:32,020 --> 00:49:28,640
we didn't pay for most of that it's

1179
00:49:35,290 --> 00:49:32,030
actually paid by 16 different countries

1180
00:49:39,550 --> 00:49:35,300
they're 60 universities involved 600

1181
00:49:42,040 --> 00:49:39,560
physicists and AMS does what Hubble

1182
00:49:46,510 --> 00:49:42,050
doesn't do Charlie launched Hubble in

1183
00:49:48,490 --> 00:49:46,520
1990 and Hubble has been an amazing tool

1184
00:49:52,360 --> 00:49:48,500
or astronomer astronomers and

1185
00:49:55,060 --> 00:49:52,370
astrophysicists it shows us galaxies you

1186
00:49:59,230 --> 00:49:55,070
know that you know how they looked wait

1187
00:50:04,480 --> 00:49:59,240
to within 500 million years a billion

1188
00:50:07,510 --> 00:50:04,490

years after the Big Bang so what AMS is

1189
00:50:10,030 --> 00:50:07,520
going to tell us is what are those

1190
00:50:12,880 --> 00:50:10,040
things made of and the way it's going to

1191
00:50:14,530 --> 00:50:12,890
do that is in the beginning when the

1192
00:50:16,990 --> 00:50:14,540
universe was created there were there

1193
00:50:18,940 --> 00:50:17,000
was a lot of hydrogen and helium we know

1194
00:50:21,400 --> 00:50:18,950
that we know there was a lot of matter

1195
00:50:23,560 --> 00:50:21,410
when something comes out of nothing if

1196
00:50:25,780 --> 00:50:23,570
there's a positive there should be a

1197
00:50:28,570 --> 00:50:25,790
negative is what astrophysicists will

1198
00:50:30,040 --> 00:50:28,580
tell you so not only should there been a

1199
00:50:32,230 --> 00:50:30,050
lot of matter but there should have been

1200
00:50:34,690 --> 00:50:32,240
a lot of antimatter and we don't know

1201
00:50:37,840 --> 00:50:34,700
what happened to that antimatter well we

1202
00:50:43,350 --> 00:50:37,850
do know that matter like atoms of oxygen

1203
00:50:49,900 --> 00:50:46,330
but any matter if there is an anti

1204
00:50:52,390 --> 00:50:49,910
oxygen or nitrogen atom that would be

1205
00:50:54,790 --> 00:50:52,400
created inside of a star too so we can

1206
00:50:57,310 --> 00:50:54,800
detect just one particle like that on

1207
00:50:59,650 --> 00:50:57,320
anti oxygen or any nitrogen particle

1208
00:51:02,080 --> 00:50:59,660
through this detector then we know it

1209
00:51:05,170 --> 00:51:02,090
came from something a star that's made

1210
00:51:07,330 --> 00:51:05,180
of antimatter so a lot of those galaxies

1211
00:51:09,160 --> 00:51:07,340
that we look at with Hubble Space

1212
00:51:11,410 --> 00:51:09,170
Telescope and those stars we see out

1213
00:51:13,870 --> 00:51:11,420

there might actually not be made out of

1214
00:51:16,540 --> 00:51:13,880
stuff like this it might be made out of

1215
00:51:19,360 --> 00:51:16,550
the opposite of that so it's really an

1216
00:51:21,580 --> 00:51:19,370
exciting time for science on the space

1217
00:51:26,110 --> 00:51:21,590
station and it's certainly going to add

1218
00:51:29,280 --> 00:51:26,120
a lot to the science program as we

1219
00:51:32,530 --> 00:51:29,290
continue to live and work on ISS we also

1220
00:51:34,570 --> 00:51:32,540
hope to open a new chapter in space one

1221
00:51:38,050 --> 00:51:34,580
that includes new launch vehicles and

1222
00:51:41,830 --> 00:51:38,060
destination in and beyond Earth's orbit

1223
00:51:43,870 --> 00:51:41,840
how exciting will it be to see the next

1224
00:51:45,430 --> 00:51:43,880
generation of astronauts it's not going

1225
00:51:48,310 --> 00:51:45,440
to be Charlie or me there'll be somebody

1226
00:51:50,010 --> 00:51:48,320
else but how exciting will that be to

1227
00:51:53,020 --> 00:51:50,020
see somebody visit an asteroid or

1228
00:51:53,860 --> 00:51:53,030
venture further into our solar system I

1229
00:51:57,310 --> 00:51:53,870
mean it's really going to be something

1230
00:51:59,830 --> 00:51:57,320
as we enter into this fourth of July

1231
00:52:02,920 --> 00:51:59,840
weekend I can't help but reflect

1232
00:52:05,770 --> 00:52:02,930
on how we've been a nation of explorers

1233
00:52:09,040 --> 00:52:05,780
for over 200 years it is our

1234
00:52:11,590 --> 00:52:09,050
responsibility all of us to maintain

1235
00:52:15,400 --> 00:52:11,600
that leadership in the exploration of

1236
00:52:18,850 --> 00:52:15,410
space President Kennedy told us and I

1237
00:52:20,740 --> 00:52:18,860
quote our leadership in science and in

1238
00:52:23,890 --> 00:52:20,750

industry our hopes for peace and

1239
00:52:26,350 --> 00:52:23,900
security our obligations to ourselves as

1240
00:52:29,650 --> 00:52:26,360
well as others all require us to make

1241
00:52:31,360 --> 00:52:29,660
this effort many of you many of you have

1242
00:52:33,940 --> 00:52:31,370
been following the recovery of my wife

1243
00:52:36,490 --> 00:52:33,950
Gabby she's doing very well she's sorry

1244
00:52:39,160 --> 00:52:36,500
she couldn't be here today we both are

1245
00:52:43,180 --> 00:52:39,170
so appreciative of the outpouring of

1246
00:52:46,270 --> 00:52:43,190
support the hopes and prayers of so many

1247
00:52:50,200 --> 00:52:46,280
people are tremendous source of strength

1248
00:52:53,680 --> 00:52:50,210
to her but also to me our family her

1249
00:52:56,980 --> 00:52:53,690
friends and her staff I love her very

1250
00:53:00,340 --> 00:52:56,990
much but I have to say I also love the

1251
00:53:01,840 --> 00:53:00,350
Space Shuttle very much the Space

1252
00:53:04,870 --> 00:53:01,850
Shuttle has been very good to this

1253
00:53:08,050 --> 00:53:04,880
country it's an incredible ship that is

1254
00:53:10,750 --> 00:53:08,060
difficult to let go in just one week

1255
00:53:14,260 --> 00:53:10,760
from today the space shuttle will rock

1256
00:53:17,440 --> 00:53:14,270
it off the planet one last time now how

1257
00:53:18,850 --> 00:53:17,450
many people haven't seen this before so

1258
00:53:20,470 --> 00:53:18,860
every but still there's a couple hands

1259
00:53:23,080 --> 00:53:20,480
I'm assuming everybody else has seen a

1260
00:53:25,360 --> 00:53:23,090
space shuttle flight in person is that

1261
00:53:28,120 --> 00:53:25,370
true probably a lot of you haven't well

1262
00:53:30,280 --> 00:53:28,130
you got a week to figure it out i really

1263
00:53:32,260 --> 00:53:30,290

suggest you get down there and do this

1264
00:53:36,420 --> 00:53:32,270
and Charlie and Lori can help you with

1265
00:53:43,810 --> 00:53:40,540
so as Atlantis heads off on its last

1266
00:53:45,700 --> 00:53:43,820
mission we can all be a little sad for a

1267
00:53:48,160 --> 00:53:45,710
little while you know that's ok I'm

1268
00:53:50,850 --> 00:53:48,170
going to be sad but also know that NASA

1269
00:53:53,590 --> 00:53:50,860
will open a new and exciting chapter

1270
00:53:56,230 --> 00:53:53,600
we're going to continue to inspire our

1271
00:53:58,900 --> 00:53:56,240
children and we're going to be continued

1272
00:54:02,410 --> 00:53:58,910
to be a great investment for the

1273
00:54:04,150 --> 00:54:02,420
American people if some of you might

1274
00:54:07,480 --> 00:54:04,160
know I announced my retirement from the

1275
00:54:10,150 --> 00:54:07,490
Navy and NASA a couple weeks ago it was

1276
00:54:12,670 --> 00:54:10,160
great to complete my last flight in the

1277
00:54:15,040 --> 00:54:12,680
Navy and in NASA by landing the Space

1278
00:54:18,040 --> 00:54:15,050
Shuttle on june first was a highlight of

1279
00:54:21,070 --> 00:54:18,050
my career since then there's been quite

1280
00:54:22,930 --> 00:54:21,080
a lot of speculation about what my plans

1281
00:54:25,090 --> 00:54:22,940
are do I plan to run for public office

1282
00:54:26,860 --> 00:54:25,100
and I just find that interesting it

1283
00:54:31,300 --> 00:54:26,870
means it must be a really really slow

1284
00:54:35,350 --> 00:54:31,310
summer out there but I'll go into more

1285
00:54:41,380 --> 00:54:35,360
detail about that next week when I visit

1286
00:54:46,210 --> 00:54:41,390
Iowa and New Hampshire in all

1287
00:54:49,120 --> 00:54:46,220
seriousness so my main focus right now

1288
00:54:52,210 --> 00:54:49,130

and for the foreseeable future is

1289
00:54:55,600 --> 00:54:52,220
gabby's recovery and also spending some

1290
00:54:57,700 --> 00:54:55,610
more time with my kids she's the

1291
00:55:00,820 --> 00:54:57,710
politician in the family I'm the space

1292
00:55:11,150 --> 00:55:00,830
guy and I see no reason to change that

1293
00:55:15,930 --> 00:55:14,370
we're almost out of time before I asked

1294
00:55:18,480 --> 00:55:15,940
the last question an author last

1295
00:55:19,980 --> 00:55:18,490
question for both of them have a couple

1296
00:55:21,180 --> 00:55:19,990
of housekeeping matters to take care I

1297
00:55:23,280 --> 00:55:21,190
would like to remind you about some of

1298
00:55:25,410 --> 00:55:23,290
our upcoming luncheon speakers on July

1299
00:55:27,570 --> 00:55:25,420
tenth Ted Leonsis majority owner the

1300
00:55:30,060 --> 00:55:27,580
NHL's Washington Capitals the nba's

1301
00:55:32,070 --> 00:55:30,070
washington wizards and a technology

1302
00:55:35,160 --> 00:55:32,080
maven himself will be our guest speaker

1303
00:55:37,200 --> 00:55:35,170
July fifteenth tim armstrong CEO of AOL

1304
00:55:40,020 --> 00:55:37,210
and Arianna Huffington will discuss the

1305
00:55:41,910 --> 00:55:40,030
future of journalism and July eighteenth

1306
00:55:45,600 --> 00:55:41,920
Gregory jasco the chairman of the

1307
00:55:47,490 --> 00:55:45,610
Nuclear Regulatory Commission will join

1308
00:55:49,290 --> 00:55:47,500
us if I could ask both of our guest

1309
00:55:53,420 --> 00:55:49,300
speakers to come up for just a moment I

1310
00:55:55,470 --> 00:55:53,430
do have a last question as well as a a

1311
00:55:56,820 --> 00:55:55,480
couple of more things actually wanted

1312
00:55:58,500 --> 00:55:56,830
well that's the question now and then

1313
00:56:00,630 --> 00:55:58,510

I'll get to the other part and for both

1314
00:56:03,450 --> 00:56:00,640
of you very important question what was

1315
00:56:06,600 --> 00:56:03,460
your favorite food in space Oh tonight

1316
00:56:08,880 --> 00:56:06,610
is easy to open the micro mine is very

1317
00:56:12,000 --> 00:56:08,890
easy shrimp cocktail it's jumbo real

1318
00:56:14,190 --> 00:56:12,010
jumbo shrimp with with cocktail sauce

1319
00:56:15,870 --> 00:56:14,200
and everything you know we've used

1320
00:56:18,150 --> 00:56:15,880
dehydrated food yet a little water and

1321
00:56:21,150 --> 00:56:18,160
it's back to normal so that's without a

1322
00:56:23,040 --> 00:56:21,160
doubt my favorite mark favorite food in

1323
00:56:26,070 --> 00:56:23,050
spoon you know if Charlie stole my

1324
00:56:27,750 --> 00:56:26,080
answer so I'm gonna you'd actually most

1325
00:56:31,800 --> 00:56:27,760
people tend to like that you know those

1326
00:56:33,420 --> 00:56:31,810
cupcakes look pretty good fortunately

1327
00:56:35,580 --> 00:56:33,430
the way we packaged stuff they'd be all

1328
00:56:38,190 --> 00:56:35,590
smashed down and you wouldn't be able to

1329
00:56:40,980 --> 00:56:38,200
read NASA on them anymore but you know

1330
00:56:43,350 --> 00:56:40,990
the food we've got 400 options so you

1331
00:56:45,210 --> 00:56:43,360
know I also like the the creamed spinach

1332
00:56:46,620 --> 00:56:45,220
believe it or not a lot of my crew

1333
00:56:48,580 --> 00:56:46,630
members think it's it's pretty

1334
00:56:50,920 --> 00:56:48,590
disgusting but

1335
00:56:52,390 --> 00:56:50,930
okay so here are the other two

1336
00:56:53,830 --> 00:56:52,400
housekeeping matters to take care of

1337
00:56:55,720 --> 00:56:53,840
first of all for the administrator are

1338
00:57:01,510 --> 00:56:55,730

complementary NPC coffee mod thank you

1339
00:57:03,520 --> 00:57:01,520
very much another thing is that I

1340
00:57:05,590 --> 00:57:03,530
noticed and I said this to Gary Sinise

1341
00:57:07,150 --> 00:57:05,600
yesterday I noticed you know short

1342
00:57:08,350 --> 00:57:07,160
haircuts are all the rule these days

1343
00:57:10,120 --> 00:57:08,360
particularly for guys who have a

1344
00:57:12,250 --> 00:57:10,130
military history so I'd like to present

1345
00:57:18,250 --> 00:57:12,260
you both with a complimentary National

1346
00:57:19,720 --> 00:57:18,260
Press Club baseball cap how about a

1347
00:57:25,960 --> 00:57:19,730
round of applause for our speakers today

1348
00:57:29,320 --> 00:57:27,760
I'd like to thank all of you for being

1349
00:57:31,150 --> 00:57:29,330
here I'd like to thank our national

1350
00:57:32,920 --> 00:57:31,160
press club staff including the library

1351
00:57:35,109 --> 00:57:32,930
in the broadcast Center for organizing

1352
00:57:36,609 --> 00:57:35,119
today's event reminder you can find out

1353
00:57:38,530 --> 00:57:36,619
more about the National Press Club at

1354
00:57:42,310 --> 00:57:38,540
our website and you can also get a copy