



1
00:00:06,200 --> 00:00:14,259
this week at NASA

2
00:00:18,740 --> 00:00:17,000
base shuttle discovery is now at the

3
00:00:21,499 --> 00:00:18,750
smithsonian's national air and space

4
00:00:24,980 --> 00:00:21,509
museum's udvar-hazy center outside

5
00:00:27,409 --> 00:00:24,990
Washington DC NASA's most flown shuttle

6
00:00:29,570 --> 00:00:27,419
was given the red-carpet treatment in a

7
00:00:31,999 --> 00:00:29,580
special multi-day welcome discovery

8
00:00:34,310 --> 00:00:32,009
celebration at the facility highlighted

9
00:00:41,960 --> 00:00:34,320
by a special one-hour telecast on NASA

10
00:00:44,450 --> 00:00:41,970
TV today we turn discovery over to the

11
00:00:46,970 --> 00:00:44,460
Smithsonian with great expectation that

12
00:00:48,889 --> 00:00:46,980
as we have always done NASA will

13
00:00:52,430 --> 00:00:48,899

continue to expire the young people of

14

00:00:54,139 --> 00:00:52,440

today and tomorrow to dream of space to

15

00:00:57,260 --> 00:00:54,149

dream of uncovering the secrets of the

16

00:00:59,510 --> 00:00:57,270

universe and take steps to pursue the

17

00:01:03,500 --> 00:00:59,520

careers that will make them the

18

00:01:05,450 --> 00:01:03,510

exploration leaders of tomorrow here's a

19

00:01:07,100 --> 00:01:05,460

look at the precise process of getting

20

00:01:09,290 --> 00:01:07,110

the orbiter from NASA's Kennedy Space

21

00:01:13,460 --> 00:01:09,300

Center in Florida to her new and

22

00:01:17,330 --> 00:01:15,290

I'm not going to lie to you feeling a

23

00:01:19,400 --> 00:01:17,340

little sad because i think it's like you

24

00:01:21,290 --> 00:01:19,410

know watching somebody leave home space

25

00:01:23,630 --> 00:01:21,300

shuttle discovery began a new mission

26
00:01:26,240 --> 00:01:23,640
left NASA's Kennedy Space Center in

27
00:01:28,460 --> 00:01:26,250
Florida destined for the Smithsonian's

28
00:01:32,840 --> 00:01:28,470
National Air and Space Museum udvar-hazy

29
00:01:35,950 --> 00:01:32,850
center outside Washington DC discoveries

30
00:01:39,410 --> 00:01:35,960
fly out from Kennedy on Tuesday April 17

31
00:01:41,870 --> 00:01:39,420
2012 began several days earlier in the

32
00:01:44,240 --> 00:01:41,880
shuttle with an aerodynamic tail cone

33
00:01:45,800 --> 00:01:44,250
over its three main engines was rolled

34
00:01:49,280 --> 00:01:45,810
out of the cavernous Vehicle Assembly

35
00:01:51,140 --> 00:01:49,290
Building for the last time it was towed

36
00:01:53,270 --> 00:01:51,150
about two miles to the shuttle landing

37
00:01:56,840 --> 00:01:53,280
facility where NASA's shuttle carrier

38
00:01:59,719 --> 00:01:56,850

aircraft a modified 747 was already

39

00:02:01,850 --> 00:01:59,729

waiting technicians who had prepped

40

00:02:04,249 --> 00:02:01,860

shuttles many times before for cross

41

00:02:06,499 --> 00:02:04,259

country ferry flights once again took

42

00:02:09,199 --> 00:02:06,509

their station inside the main teammate

43

00:02:12,260 --> 00:02:09,209

device at Kennedy to carefully hoist the

44

00:02:16,220 --> 00:02:12,270

83 ton discovery and place it gently on

45

00:02:18,170 --> 00:02:16,230

the 747 the combination was pushed away

46

00:02:19,820 --> 00:02:18,180

from the steel stacking structure and

47

00:02:22,160 --> 00:02:19,830

spent the day at the center of

48

00:02:24,020 --> 00:02:22,170

appreciation for employees and NASA

49

00:02:26,360 --> 00:02:24,030

officials who came out to see the

50

00:02:29,300 --> 00:02:26,370

spacecraft one last time in its

51
00:02:31,660 --> 00:02:29,310
operational environment some of the

52
00:02:35,150 --> 00:02:31,670
astronauts of discoveries last mission

53
00:02:37,370 --> 00:02:35,160
sts-133 came back to Kennedy to see the

54
00:02:40,430 --> 00:02:37,380
shuttles departure this has been

55
00:02:41,960 --> 00:02:40,440
discoveries home for a long time and but

56
00:02:45,259 --> 00:02:41,970
i think this Smithsonian's going to take

57
00:02:47,870 --> 00:02:45,269
beautiful care of her as well so I look

58
00:02:48,730 --> 00:02:47,880
forward to taking my family up there

59
00:02:51,640 --> 00:02:48,740
sometime and

60
00:02:53,410 --> 00:02:51,650
seeing seeing her on display space

61
00:02:55,810 --> 00:02:53,420
shuttles routinely impress people with

62
00:02:58,510 --> 00:02:55,820
their performances and even flying

63
00:03:00,880 --> 00:02:58,520

through the air on a 747 as far as a

64

00:03:04,120 --> 00:03:00,890

certain g quiz notion even among

65

00:03:05,860 --> 00:03:04,130

astronauts once you get over the shock

66

00:03:09,970 --> 00:03:05,870

of realizing that it's going away for

67

00:03:12,940 --> 00:03:09,980

the last time can't not look at it safe

68

00:03:14,860 --> 00:03:12,950

wow the world's that combination still

69

00:03:16,870 --> 00:03:14,870

work how does that fly we're doing a

70

00:03:18,340 --> 00:03:16,880

series of flyovers starting here at

71

00:03:21,460 --> 00:03:18,350

Kennedy and we're doing one in

72

00:03:23,860 --> 00:03:21,470

Washington DC and we want to do the best

73

00:03:28,210 --> 00:03:23,870

job that we can so a lot of flood of

74

00:03:30,100 --> 00:03:28,220

eyes watching us on this delivery and

75

00:03:32,890 --> 00:03:30,110

the crew of the shuttle carrier aircraft

76

00:03:34,540 --> 00:03:32,900

did not disappoint providing the

77

00:03:37,240 --> 00:03:34,550

nation's capital region with

78

00:03:39,910 --> 00:03:37,250

inspirational once-in-a-lifetime views

79

00:03:42,730 --> 00:03:39,920

with a series of flyovers giving young

80

00:03:47,560 --> 00:03:42,740

and old one last look at discovery in

81

00:03:49,870 --> 00:03:47,570

flight the SCA then brought the most

82

00:03:52,180 --> 00:03:49,880

prolific Space Shuttle in history back

83

00:03:55,000 --> 00:03:52,190

to earth with a picture-perfect landing

84

00:03:57,870 --> 00:03:55,010

at Dulles International Airport for its

85

00:04:00,790 --> 00:03:57,880

induction into the Smithsonian for NASA

86

00:04:03,550 --> 00:04:00,800

discovery on display at Hoover ha Z is a

87

00:04:05,980 --> 00:04:03,560

shining example of past successes that

88

00:04:08,160 --> 00:04:05,990

will help the agency continue to build

89

00:04:10,600 --> 00:04:08,170

for the future of space exploration

90

00:04:13,630 --> 00:04:10,610

President Obama has set us on a course

91

00:04:14,559 --> 00:04:13,640

that will tap into the innovative spirit

92

00:04:17,170 --> 00:04:14,569

that is

93

00:04:19,420 --> 00:04:17,180

made this a great nation it will allow

94

00:04:21,819 --> 00:04:19,430

us to more fully utilize the

95

00:04:24,400 --> 00:04:21,829

International Space Station and to

96

00:04:26,770 --> 00:04:24,410

explore farther than ever before with

97

00:04:31,210 --> 00:04:26,780

humans first to an asteroid and then on

98

00:04:33,640 --> 00:04:31,220

to Mars carrying these astronauts to

99

00:04:36,430 --> 00:04:33,650

these beyond Earth orbit destinations

100

00:04:38,589 --> 00:04:36,440

will be the Orion spacecraft the test

101
00:04:41,260 --> 00:04:38,599
vehicle used in the pad abort one test

102
00:04:43,749 --> 00:04:41,270
in 2010 which saw the successful flight

103
00:04:46,240 --> 00:04:43,759
of Orion's launch abort system was among

104
00:04:48,249 --> 00:04:46,250
many NASA items and exhibits displayed

105
00:04:51,310 --> 00:04:48,259
at inver ozzy for the welcome discovery

106
00:04:53,620 --> 00:04:51,320
celebration the first space bound Orien

107
00:04:56,680 --> 00:04:53,630
capsule is scheduled for an uncrewed

108
00:04:59,320 --> 00:04:56,690
test in 2014 that will see it travel

109
00:05:04,940 --> 00:04:59,330
farther into space than any human rated

110
00:05:09,170 --> 00:05:06,880
meanwhile at the Wallops Flight Facility

111
00:05:11,810 --> 00:05:09,180
orbital sciences corporation is

112
00:05:13,850 --> 00:05:11,820
conducting Pathfinder operations for the

113
00:05:16,130 --> 00:05:13,860

critical pre-launch process of rolling

114

00:05:18,800 --> 00:05:16,140

out the on Terry's launch vehicle to the

115

00:05:21,890 --> 00:05:18,810

path on terry's is being developed to

116

00:05:23,090 --> 00:05:21,900

provide low-cost access to space as part

117

00:05:26,140 --> 00:05:23,100

of NASA's commercial orbital

118

00:05:29,030 --> 00:05:26,150

transportation services program or cuts

119

00:05:32,510 --> 00:05:29,040

there are currently 10 missions planned

120

00:05:35,120 --> 00:05:32,520

between 2012 and 2015 including a

121

00:05:36,470 --> 00:05:35,130

demonstration flight and eight resupply

122

00:05:41,000 --> 00:05:36,480

missions to the International Space

123

00:05:43,310 --> 00:05:41,010

Station NASA Chief Technologist Mason

124

00:05:45,650 --> 00:05:43,320

Peck visited the Glenn Research Center

125

00:05:48,440 --> 00:05:45,660

and was updated on a wide range of

126
00:05:50,930 --> 00:05:48,450
technology efforts among the facilities

127
00:05:53,000 --> 00:05:50,940
toward was a lab where researchers are

128
00:05:55,700 --> 00:05:53,010
investigating ways to revolutionize

129
00:05:59,990 --> 00:05:55,710
aerogels for use in space and here on

130
00:06:02,630 --> 00:06:00,000
earth engineers and scientists join Peck

131
00:06:04,460 --> 00:06:02,640
for a working lunch to share details of

132
00:06:07,870 --> 00:06:04,470
their research and development efforts

133
00:06:10,520 --> 00:06:07,880
through Glenn's Center innovative fund

134
00:06:13,070 --> 00:06:10,530
what I want to share with you for just a

135
00:06:15,680 --> 00:06:13,080
little while is a little bit about who

136
00:06:17,690 --> 00:06:15,690
we are and where we are at NASA and

137
00:06:19,430 --> 00:06:17,700
hopefully wit your appetite for things

138
00:06:21,380 --> 00:06:19,440

to come NASA Administrator Charles

139

00:06:23,960 --> 00:06:21,390

Bolden and deputy administrator lori

140

00:06:26,330 --> 00:06:23,970

Garver provided remarks at the 28th

141

00:06:29,420 --> 00:06:26,340

annual National Space symposium in

142

00:06:31,460 --> 00:06:29,430

Colorado Springs the event held at the

143

00:06:33,800 --> 00:06:31,470

broadmoor hotel has brought together

144

00:06:36,080 --> 00:06:33,810

space leaders from around the world to

145

00:06:39,980 --> 00:06:36,090

discuss and address the future of space

146

00:06:41,330 --> 00:06:39,990

since its inaugural event in 1984 Garver

147

00:06:44,360 --> 00:06:41,340

participated in a panel discussion

148

00:06:46,880 --> 00:06:44,370

titled space agency leaders the

149

00:06:50,320 --> 00:06:46,890

imperative of global collaboration NASA

150

00:06:54,620 --> 00:06:50,330

in our 52 year history we have had over

151
00:06:57,890 --> 00:06:54,630
4,000 international agreements with 120

152
00:07:00,230 --> 00:06:57,900
different nations we have I know

153
00:07:02,510 --> 00:07:00,240
throughout the week and in the past few

154
00:07:04,910 --> 00:07:02,520
years had concerns that we as an

155
00:07:07,700 --> 00:07:04,920
industry as a community are not able to

156
00:07:08,450 --> 00:07:07,710
change and adapt look no further than

157
00:07:10,550 --> 00:07:08,460
this

158
00:07:12,559 --> 00:07:10,560
I've ever again born of the Cold War the

159
00:07:15,290 --> 00:07:12,569
space program is truly a collaborative

160
00:07:17,839 --> 00:07:15,300
effort the National Space symposium has

161
00:07:20,680 --> 00:07:17,849
become widely known as the premier u.s.

162
00:07:23,360 --> 00:07:20,690
space policy and program forum and the

163
00:07:27,950 --> 00:07:23,370

must-attend opportunity for information

164

00:07:29,839 --> 00:07:27,960

related to space America's space agency

165

00:07:32,390 --> 00:07:29,849

has crowded vehicular engineering

166

00:07:34,339 --> 00:07:32,400

victor's for the 19th annual NASA great

167

00:07:36,830 --> 00:07:34,349

moon buggy race at the US Space and

168

00:07:38,779 --> 00:07:36,840

Rocket Center in Huntsville Alabama the

169

00:07:40,999 --> 00:07:38,789

team from Petra Mikado high school in

170

00:07:43,100 --> 00:07:41,009

humic Alberto Rico won first place in

171

00:07:44,540 --> 00:07:43,110

the high school division and racers from

172

00:07:46,909 --> 00:07:44,550

the university of alabama in huntsville

173

00:07:49,790 --> 00:07:46,919

team one claimed the College Division

174

00:07:52,400 --> 00:07:49,800

trophy the winning teams out raised more

175

00:07:55,730 --> 00:07:52,410

than 80 teams from 20 States Puerto Rico

176
00:07:57,860 --> 00:07:55,740
Canada Germany India Italy Russia and

177
00:07:59,270 --> 00:07:57,870
the United Arab Emirates I think there

178
00:08:00,920 --> 00:07:59,280
are a number of reasons that i would

179
00:08:04,430 --> 00:08:00,930
consider the great moon buggy race

180
00:08:07,700 --> 00:08:04,440
important perhaps for most for me is

181
00:08:11,450 --> 00:08:07,710
just the international competition that

182
00:08:13,730 --> 00:08:11,460
it brings the exposure of our kids you

183
00:08:15,980 --> 00:08:13,740
know not only here in in Huntsville but

184
00:08:17,480 --> 00:08:15,990
kids across the the United States who

185
00:08:18,830 --> 00:08:17,490
have an opportunity to meet students

186
00:08:20,719 --> 00:08:18,840
from from other parts of the world

187
00:08:22,760 --> 00:08:20,729
organized by NASA's Marshall Space

188
00:08:24,830 --> 00:08:22,770

Flight Center the race challenges

189

00:08:27,010 --> 00:08:24,840

students to design build and race

190

00:08:29,330 --> 00:08:27,020

lightweight human powered buggies

191

00:08:31,430 --> 00:08:29,340

traversing the grueling half-mile course

192

00:08:33,649 --> 00:08:31,440

which simulates the cratered lunar

193

00:08:35,420 --> 00:08:33,659

surface race teams face many of the same

194

00:08:37,850 --> 00:08:35,430

engineering challenges dealt with by

195

00:08:40,639 --> 00:08:37,860

Apollo era lunar rover developers at the

196

00:08:42,409 --> 00:08:40,649

Marshall Center in the late 1960s the

197

00:08:44,089 --> 00:08:42,419

winning teams post the fastest vehicle

198

00:08:46,100 --> 00:08:44,099

assembly and race times in their

199

00:08:48,560 --> 00:08:46,110

divisions with the fewest on course

200

00:08:50,720 --> 00:08:48,570

penalties the race is inspired by the

201

00:08:52,400 --> 00:08:50,730

original lunar rover first piloted

202

00:08:55,750 --> 00:08:52,410

across the moon's surface in the early

203

00:08:58,639 --> 00:08:55,760

1970s during the Apollo 15 16 and 17

204

00:08:59,690 --> 00:08:58,649

missions it's wonderful it's nice being

205

00:09:00,829 --> 00:08:59,700

around a bunch of students that are

206

00:09:02,650 --> 00:09:00,839

doing the same things we are and been

207

00:09:05,610 --> 00:09:02,660

through what we have in the past

208

00:09:08,170 --> 00:09:05,620

semester and everything

209

00:09:09,460 --> 00:09:08,180

just being around engineers doing the

210

00:09:12,010 --> 00:09:09,470

same thing we are being able to relate

211

00:09:14,199 --> 00:09:12,020

to them and compete competitions always

212

00:09:22,389 --> 00:09:14,209

fun for more information about the race

213

00:09:24,430 --> 00:09:22,399

visit moon buggy ms FC NASA gov NASA's

214

00:09:26,949 --> 00:09:24,440

newest building is also one of the

215

00:09:29,290 --> 00:09:26,959

nation's greenest the agency has

216

00:09:31,420 --> 00:09:29,300

repurposed its technologies and

217

00:09:34,960 --> 00:09:31,430

incorporated them into a new facility

218

00:09:36,699 --> 00:09:34,970

called sustainability base located at

219

00:09:39,280 --> 00:09:36,709

the Ames Research Center at Moffett

220

00:09:42,010 --> 00:09:39,290

Field California this highly intelligent

221

00:09:44,380 --> 00:09:42,020

and intuitive facility can anticipate

222

00:09:47,740 --> 00:09:44,390

and react to changes in sunlight

223

00:09:49,510 --> 00:09:47,750

temperature wind and occupancy the

224

00:09:52,060 --> 00:09:49,520

building can optimize its performance

225

00:09:55,360 --> 00:09:52,070

automatically in real-time in response

226

00:09:57,730 --> 00:09:55,370

to internal and external changes it is

227

00:10:00,310 --> 00:09:57,740

designed to achieve and is presently

228

00:10:02,410 --> 00:10:00,320

under consideration for the US Green

229

00:10:04,480 --> 00:10:02,420

Building Council's Leadership in Energy

230

00:10:07,329 --> 00:10:04,490

and Environmental Design or LEED

231

00:10:13,929 --> 00:10:07,339

Platinum status which is the highest

232

00:10:19,179 --> 00:10:16,749

at about 1,400 aliens and earthlings

233

00:10:24,099 --> 00:10:19,189

recently celebrated Space Flight at

234

00:10:25,749 --> 00:10:24,109

yuri's night Hampton Roads the event was

235

00:10:28,089 --> 00:10:25,759

held at the langley research center's

236

00:10:30,579 --> 00:10:28,099

official visitors facility the Virginia

237

00:10:32,079 --> 00:10:30,589

Air and Space Center the crowd honored

238

00:10:34,299 --> 00:10:32,089

the anniversary of the first space

239

00:10:35,979 --> 00:10:34,309

shuttle liftoff as well as that of the

240

00:10:38,229 --> 00:10:35,989

first human spaceflight by Russian

241

00:10:40,210 --> 00:10:38,239

cosmonaut yuri gagarin the night

242

00:10:42,749 --> 00:10:40,220

featured a mix of NASA innovation and

243

00:10:45,729 --> 00:10:42,759

Technology a little stargazing and

244

00:10:48,099 --> 00:10:45,739

entertainment including a DJ and dancing

245

00:10:51,669 --> 00:10:48,109

inside the museum and live reggae

246

00:10:53,710 --> 00:10:51,679

outdoors on the observations and as in

247

00:10:56,979 --> 00:10:53,720

past years there were plenty of familiar

248

00:10:59,710 --> 00:10:56,989

characters on hand including Darth Vader

249

00:11:02,409 --> 00:10:59,720

a Star Trek officer the crew from

250

00:11:05,139 --> 00:11:02,419

futurama and a number of men and black

251

00:11:09,489 --> 00:11:05,149

as participants got into the spirit of

252

00:11:11,319 --> 00:11:09,499

the eagle and that's this week @nasa for

253

00:11:13,449 --> 00:11:11,329

more on these and other stories or to