



1
00:00:06,230 --> 00:00:13,970
this week at NASA

2
00:00:18,439 --> 00:00:16,640
senator barbara mikulski chairwoman of

3
00:00:20,839 --> 00:00:18,449
the Senate Appropriations Subcommittee

4
00:00:23,749 --> 00:00:20,849
on Commerce justice science and related

5
00:00:26,269 --> 00:00:23,759
agencies visited NASA's Wallops Flight

6
00:00:27,380 --> 00:00:26,279
Facility recently joined by officials

7
00:00:29,779 --> 00:00:27,390
from NASA

8
00:00:32,329 --> 00:00:29,789
Orbital Sciences Corporation and others

9
00:00:34,070 --> 00:00:32,339
the senator was updated on the status of

10
00:00:36,799 --> 00:00:34,080
Orbital Sciences corporations Antares

11
00:00:38,810 --> 00:00:36,809
rocket and the mid-atlantic regional

12
00:00:41,630 --> 00:00:38,820
spaceports new path from which the

13
00:00:44,030 --> 00:00:41,640

vehicle will launch Antares is slated to

14

00:00:46,369 --> 00:00:44,040

carry orbitals Cygnus pressurized cargo

15

00:00:47,869 --> 00:00:46,379

module on a demonstration flight under

16

00:00:51,439 --> 00:00:47,879

NASA's commercial orbital transportation

17

00:00:53,779 --> 00:00:51,449

services program in December 2012 and

18

00:00:58,700 --> 00:00:53,789

began carrying supplies to the

19

00:01:00,680 --> 00:00:58,710

International Space Station in 2013 the

20

00:01:03,799 --> 00:01:00,690

first steps in preparing for NASA's

21

00:01:06,350 --> 00:01:03,809

exploration flight test-1 or eft-1 in

22

00:01:09,200 --> 00:01:06,360

2014 are underway at the Michoud

23

00:01:11,270 --> 00:01:09,210

assembly facility in New Orleans as the

24

00:01:13,639 --> 00:01:11,280

Orion team completes its welding of the

25

00:01:15,200 --> 00:01:13,649

crew module the spacecraft will next

26
00:01:17,600 --> 00:01:15,210
move to the Kennedy Space Center's

27
00:01:19,339 --> 00:01:17,610
operation and check-out facility where

28
00:01:21,559 --> 00:01:19,349
its processing will continue through

29
00:01:23,690 --> 00:01:21,569
final assembly and testing we've been

30
00:01:26,419 --> 00:01:23,700
here probably working on this for the

31
00:01:27,919 --> 00:01:26,429
last six or eight months and they spent

32
00:01:31,570 --> 00:01:27,929
a lot of weekends and nights trying to

33
00:01:33,410 --> 00:01:31,580
get it to this point on the program

34
00:01:35,960 --> 00:01:33,420
engineers at Marshall Space Flight

35
00:01:37,969 --> 00:01:35,970
Center tested a composite crew module

36
00:01:40,279 --> 00:01:37,979
and the environmental test facility

37
00:01:42,350 --> 00:01:40,289
vacuum chamber to gauge how a space

38
00:01:44,690 --> 00:01:42,360

structure fabricated with composite

39

00:01:47,510 --> 00:01:44,700

materials will react in a simulated

40

00:01:49,699 --> 00:01:47,520

space environment during the test the

41

00:01:51,559 --> 00:01:49,709

crew module was pressurized and filled

42

00:01:53,779 --> 00:01:51,569

with helium to allow engineers to

43

00:01:56,359 --> 00:01:53,789

inspect it for leaks once we understand

44

00:01:58,969 --> 00:01:56,369

what that leak rate is we can then start

45

00:02:00,919 --> 00:01:58,979

to pursue understanding what's

46

00:02:03,589 --> 00:02:00,929

contributing to that leak rate whether

47

00:02:05,690 --> 00:02:03,599

it's the the fittings that are bolted

48

00:02:07,910 --> 00:02:05,700

through the surface or through the

49

00:02:10,070 --> 00:02:07,920

thickness of the crew module or whether

50

00:02:11,869 --> 00:02:10,080

it's coming through the skin the crew

51
00:02:13,970 --> 00:02:11,879
module was designed to test new

52
00:02:16,309 --> 00:02:13,980
materials and fabrication techniques

53
00:02:18,320 --> 00:02:16,319
that might be used to construct future

54
00:02:20,869 --> 00:02:18,330
space structures from both metals and

55
00:02:23,630 --> 00:02:20,879
composites the composite crew module

56
00:02:24,160 --> 00:02:23,640
project is led by NASA's engineering and

57
00:02:27,870 --> 00:02:24,170
Safety

58
00:02:30,699 --> 00:02:27,880
Center and Langley Research Center

59
00:02:33,550 --> 00:02:30,709
expedition 31 flight engineer Don Pettit

60
00:02:35,830 --> 00:02:33,560
is nothing if not a passionate about

61
00:02:38,949 --> 00:02:35,840
conducting science research in space and

62
00:02:42,490 --> 00:02:38,959
be in possession of a healthy sense of

63
00:02:45,280 --> 00:02:42,500

humor combine the two and you have diary

64

00:02:47,260 --> 00:02:45,290
of a space Sukie Pettit space blog

65

00:02:49,210 --> 00:02:47,270
authored from the point of view of a

66

00:02:51,580 --> 00:02:49,220
squash growing from seat aboard the

67

00:02:53,320 --> 00:02:51,590
International Space Station while the

68

00:02:55,120 --> 00:02:53,330
chronicles of the space zucchini may

69

00:02:57,820 --> 00:02:55,130
constitute an entertaining and

70

00:03:00,040 --> 00:02:57,830
educational novelty see the June 9th

71

00:03:03,009 --> 00:03:00,050
entry great news I have a baby brother

72

00:03:05,860 --> 00:03:03,019
sprout important plant studies have long

73

00:03:08,080 --> 00:03:05,870
been conducted in space the vegetation

74

00:03:09,910 --> 00:03:08,090
investigations on the ISS have had real

75

00:03:13,180 --> 00:03:09,920
scientific goals for Earth and space

76
00:03:15,130 --> 00:03:13,190
exploration benefits from improved crop

77
00:03:18,009 --> 00:03:15,140
production on the ground to one day

78
00:03:20,380 --> 00:03:18,019
providing fresh produce on-orbit sprouts

79
00:03:25,440 --> 00:03:20,390
in space provide a bumper crop of data

80
00:03:29,640 --> 00:03:27,660
you can now use the internet and a

81
00:03:31,740 --> 00:03:29,650
smartphone for an inside look at the

82
00:03:33,540 --> 00:03:31,750
groundbreaking science and technology

83
00:03:36,330 --> 00:03:33,550
research being done on board the

84
00:03:38,699 --> 00:03:36,340
International Space Station log on to

85
00:03:41,580 --> 00:03:38,709
the agency's space station live webpage

86
00:03:43,770 --> 00:03:41,590
or download the companion ISS Lies

87
00:03:45,780 --> 00:03:43,780
mobile app to get up to the minute

88
00:03:48,900 --> 00:03:45,790

information on experiments NASA

89

00:03:51,150 --> 00:03:48,910

astronauts are conducting 240 miles in

90

00:03:53,880 --> 00:03:51,160

space for the benefit of all on earth

91

00:03:56,220 --> 00:03:53,890

you can also take a virtual tour of the

92

00:03:59,100 --> 00:03:56,230

station and get a peek at the operator

93

00:04:05,789 --> 00:03:59,110

consoles inside ISS Mission Control at

94

00:04:07,530 --> 00:04:05,799

the Johnson Space Center NASA's Ames

95

00:04:09,120 --> 00:04:07,540

Research Center hosted about 30

96

00:04:11,400 --> 00:04:09,130

elementary school students for a

97

00:04:13,979 --> 00:04:11,410

one-week learning experience as part of

98

00:04:15,600 --> 00:04:13,989

the Green Scholars Program the program

99

00:04:17,580 --> 00:04:15,610

is focused on developing and

100

00:04:20,190 --> 00:04:17,590

highlighting the academic skills of

101
00:04:21,750 --> 00:04:20,200
african-american students with a goal of

102
00:04:24,780 --> 00:04:21,760
inspiring them to pursue higher

103
00:04:26,909 --> 00:04:24,790
education very fun I get to learn more

104
00:04:30,249 --> 00:04:26,919
about science and I really like science

105
00:04:33,439 --> 00:04:30,259
so I think this

106
00:04:34,730 --> 00:04:33,449
aimes deputy director Lew Braxton met

107
00:04:37,370 --> 00:04:34,740
with the students to give them advice

108
00:04:39,350 --> 00:04:37,380
and encouragement during the week the

109
00:04:41,480 --> 00:04:39,360
scholars participated in various math

110
00:04:43,490 --> 00:04:41,490
and science projects and at the end of

111
00:04:45,469 --> 00:04:43,500
the week each student received a

112
00:04:49,670 --> 00:04:45,479
graduation certificate to mark the

113
00:04:51,800 --> 00:04:49,680

achievement preparations for the launch

114

00:04:54,680 --> 00:04:51,810

of NASA's lunar atmosphere and dust

115

00:04:56,920 --> 00:04:54,690

environment Explorer or ladee are in

116

00:04:59,120 --> 00:04:56,930

full gear at the Wallops Flight Facility

117

00:05:02,480 --> 00:04:59,130

erected on the mid-atlantic regional

118

00:05:04,730 --> 00:05:02,490

spaceports pad 0b a mock-up of the

119

00:05:07,129 --> 00:05:04,740

vehicle allowed technicians to check out

120

00:05:09,610 --> 00:05:07,139

how the spacecraft will fit with its air

121

00:05:11,870 --> 00:05:09,620

force Minotaur 5 rocket and launcher

122

00:05:13,820 --> 00:05:11,880

additional fit and procedural checks

123

00:05:15,800 --> 00:05:13,830

were conducted at other Wallops

124

00:05:18,469 --> 00:05:15,810

facilities that will be used to process

125

00:05:23,920 --> 00:05:18,479

the vehicle ladi is scheduled to be

126

00:05:28,550 --> 00:05:26,750

speaking before an enthusiastic crowd at

127

00:05:31,580 --> 00:05:28,560

the Smithsonian National Air and Space

128

00:05:33,830 --> 00:05:31,590

Museum in Washington NASA Administrator

129

00:05:36,490 --> 00:05:33,840

Charles Bolden delivered this year's

130

00:05:38,870 --> 00:05:36,500

John h.glenn lecture in space history

131

00:05:41,510 --> 00:05:38,880

Bolden reflected on his career as a

132

00:05:44,120 --> 00:05:41,520

Marine aviator a space shuttle pilot and

133

00:05:46,339 --> 00:05:44,130

Commander and his tenure as the leader

134

00:05:49,040 --> 00:05:46,349

of the nation's space agency it's been

135

00:05:51,320 --> 00:05:49,050

my honor to be a part of our nation's

136

00:05:53,379 --> 00:05:51,330

greatest successes and to help Shepherd

137

00:05:55,939 --> 00:05:53,389

NASA to its next destination

138

00:05:57,800 --> 00:05:55,949

there are many bright days ahead for the

139

00:06:00,500 --> 00:05:57,810

nation's space program and for

140

00:06:02,570 --> 00:06:00,510

civilizations progress into space I hope

141

00:06:06,050 --> 00:06:02,580

every one of you though is as excited

142

00:06:08,510 --> 00:06:06,060

and passionate as I am about ensuring

143

00:06:13,100 --> 00:06:08,520

that we realize every potential of our

144

00:06:14,990 --> 00:06:13,110

times Bolden was also present at the

145

00:06:17,120 --> 00:06:15,000

excellence and public service award by

146

00:06:19,399 --> 00:06:17,130

former senator and astronaut John Glenn

147

00:06:21,140 --> 00:06:19,409

on behalf of the John Glenn school of

148

00:06:22,189 --> 00:06:21,150

public affairs at the Ohio State

149

00:06:24,110 --> 00:06:22,199

University

150

00:06:26,300 --> 00:06:24,120

the award honors a person who

151
00:06:27,230 --> 00:06:26,310
demonstrates outstanding dedication to

152
00:06:29,089 --> 00:06:27,240
public service

153
00:06:31,060 --> 00:06:29,099
the award ceremony was held at the

154
00:06:37,930 --> 00:06:31,070
Koshland Science Museum of the Mass

155
00:06:40,390 --> 00:06:37,940
Academy of Sciences in Washington DC and

156
00:06:42,970 --> 00:06:40,400
Bolden and Glynn were joined by another

157
00:06:45,580 --> 00:06:42,980
former Marine to take in some art a tear

158
00:06:48,340 --> 00:06:45,590
in space the museum's director general

159
00:06:51,280 --> 00:06:48,350
Jack Dailey led the tour of the exhibit

160
00:06:54,430 --> 00:06:51,290
gallery featuring fly Marines the

161
00:07:00,160 --> 00:06:54,440
centennial of Marine Corps aviation 1912

162
00:07:02,710 --> 00:07:00,170
to 2012 the 91 works of art were

163
00:07:04,330 --> 00:07:02,720

selected from the more than 8,000 pieces

164

00:07:10,810 --> 00:07:04,340

in the Marine Corps art program

165

00:07:13,420 --> 00:07:10,820

collection NASA teamed up with

166

00:07:15,940 --> 00:07:13,430

Vanderbilt University's dire observatory

167

00:07:18,160 --> 00:07:15,950

in Brentwood Tennessee to host a summer

168

00:07:21,070 --> 00:07:18,170

of innovation event for rising 5th and

169

00:07:23,350 --> 00:07:21,080

6th graders from the Nashville area the

170

00:07:25,510 --> 00:07:23,360

students enjoyed hands on Mars related

171

00:07:27,100 --> 00:07:25,520

activities and got to speak with NASA

172

00:07:32,920 --> 00:07:27,110

associate administrator for education

173

00:07:34,810 --> 00:07:32,930

and former astronaut Leland Melvin the

174

00:07:36,930 --> 00:07:34,820

young attendees were also treated to an

175

00:07:40,030 --> 00:07:36,940

evening concert and stage presentation

176

00:07:42,270 --> 00:07:40,040

summer of innovation aims to inspire and

177

00:07:45,370 --> 00:07:42,280

engage middle school students in science

178

00:07:47,920 --> 00:07:45,380

technology engineering and math the STEM

179

00:07:50,500 --> 00:07:47,930

fields this is the second year Dyer

180

00:07:54,310 --> 00:07:50,510

Observatory has partnered with NASA for

181

00:07:56,710 --> 00:07:54,320

summer of innovation station this is

182

00:07:58,240 --> 00:07:56,720

Torii Hunter how do you hear me Tori

183

00:08:00,070 --> 00:07:58,250

this is Joe acaba aboard the

184

00:08:01,960 --> 00:08:00,080

International Space Station I hear you

185

00:08:04,060 --> 00:08:01,970

loud and clear aboard the International

186

00:08:06,760 --> 00:08:04,070

Space Station expedition 31 flight

187

00:08:09,130 --> 00:08:06,770

engineer Joe acaba a lifelong fan of the

188

00:08:11,740 --> 00:08:09,140

Los Angeles Angels recently chatted with

189

00:08:13,210 --> 00:08:11,750

Angels outfielder Torii Hunter he was on

190

00:08:15,910 --> 00:08:13,220

the field at Angel Stadium in Anaheim

191

00:08:18,070 --> 00:08:15,920

California preparing for the team's game

192

00:08:20,440 --> 00:08:18,080

that night I always encourage kids to go

193

00:08:22,060 --> 00:08:20,450

out and take away fear worrying down and

194

00:08:23,350 --> 00:08:22,070

don't listen to anybody that's negative

195

00:08:25,810 --> 00:08:23,360

and tell you that you can't do anything

196

00:08:27,760 --> 00:08:25,820

you could be an astronaut you can be a

197

00:08:29,380 --> 00:08:27,770

major league baseball player anything

198

00:08:31,660 --> 00:08:29,390

you want to be just put your mind to it

199

00:08:33,219 --> 00:08:31,670

and your heart into it Amen I agree with

200

00:08:35,050 --> 00:08:33,229

you a hundred percent and you know I

201
00:08:37,300 --> 00:08:35,060
think you and I are are pretty good

202
00:08:38,950 --> 00:08:37,310
examples of people that you know dreams

203
00:08:41,350 --> 00:08:38,960
can come true and we're living that

204
00:08:41,790 --> 00:08:41,360
right now the conversation between acaba

205
00:08:43,889 --> 00:08:41,800
and

206
00:08:46,199 --> 00:08:43,899
Hunter was replate for the fans in

207
00:08:48,960 --> 00:08:46,209
Anaheim before the June 22nd game with

208
00:08:56,009 --> 00:08:48,970
the LA Dodgers and was also aired on the

209
00:08:58,710 --> 00:08:56,019
Angels television network 15 years ago

210
00:09:01,079 --> 00:08:58,720
on July 4th 1997 the Mars Pathfinder

211
00:09:03,630 --> 00:09:01,089
landed on the Red Planet seven months

212
00:09:06,090 --> 00:09:03,640
after it was launched Pathfinder landed

213
00:09:08,850 --> 00:09:06,100

on martha's Aires Valles in a region

214

00:09:11,340 --> 00:09:08,860

called crisi Planitia in the Axio palace

215

00:09:13,860 --> 00:09:11,350

quadrangle the mission carried a series

216

00:09:16,319 --> 00:09:13,870

of scientific instruments to analyze the

217

00:09:18,420 --> 00:09:16,329

Martian surface climate geology and the

218

00:09:20,759 --> 00:09:18,430

composition of its rocks and soil

219

00:09:23,610 --> 00:09:20,769

it was the second project from NASA's

220

00:09:25,710 --> 00:09:23,620

Discovery Program Pathfinder consisted

221

00:09:28,019 --> 00:09:25,720

of a lander renamed the Carl Sagan

222

00:09:30,269 --> 00:09:28,029

memorial station and a lightweight

223

00:09:33,240 --> 00:09:30,279

robotic rover named Sojourner

224

00:09:35,579 --> 00:09:33,250

in addition to scientific objectives the

225

00:09:38,250 --> 00:09:35,589

mission was also proof-of-concept for

226

00:09:40,889 --> 00:09:38,260

various technologies such as the airbag

227

00:09:43,380 --> 00:09:40,899

mediated touchdown and automated

228

00:09:47,100 --> 00:09:43,390

obstacle avoidance both later used by

229

00:09:49,800 --> 00:09:47,110

the mars exploration rovers and that's

230

00:09:51,960 --> 00:09:49,810

this week @nasa for more on these and

231

00:09:54,240 --> 00:09:51,970

other stories or to follow us on