



1  
00:00:07,120 --> 00:00:10,549  
this week at nasa

2  
00:00:12,629 --> 00:00:11,589  
three

3  
00:00:13,589 --> 00:00:12,639  
two

4  
00:00:17,430 --> 00:00:13,599  
one

5  
00:00:20,630 --> 00:00:17,440  
main engine start zero and lift off of

6  
00:00:23,349 --> 00:00:20,640  
the atlas five with curiosity seeking

7  
00:00:27,109 --> 00:00:23,359  
clues to the planetary puzzle about life

8  
00:00:29,589 --> 00:00:27,119  
on mars on november 26th at 1002 am

9  
00:00:32,069 --> 00:00:29,599  
eastern standard time nasa's mars

10  
00:00:34,389 --> 00:00:32,079  
science laboratory curiosity rover

11  
00:00:37,270 --> 00:00:34,399  
launched aboard a united launch alliance

12  
00:00:39,750 --> 00:00:37,280  
atlas v rocket from cape canaveral air

13  
00:00:41,830 --> 00:00:39,760

force station in florida msl is

14

00:00:45,190 --> 00:00:41,840

scheduled to reach the red planet next

15

00:00:47,590 --> 00:00:45,200

august at a site known as gale crater

16

00:00:50,069 --> 00:00:47,600

curiosity rover's 10 instruments will

17

00:00:54,869 --> 00:00:50,079

investigate whether that area of mars

18

00:00:59,430 --> 00:00:57,270

now that expedition 29 crew members mike

19

00:01:01,670 --> 00:00:59,440

fossum satoshi furukawa and sergey

20

00:01:03,590 --> 00:01:01,680

volkov are back on earth the three

21

00:01:05,109 --> 00:01:03,600

remaining residents of the international

22

00:01:08,550 --> 00:01:05,119

space station are getting ready to

23

00:01:11,030 --> 00:01:08,560

welcome another trio to expedition 30.

24

00:01:13,510 --> 00:01:11,040

scheduled to join dan burbank anton

25

00:01:16,789 --> 00:01:13,520

shkaplerov and anatoly ivanishin on

26

00:01:19,910 --> 00:01:16,799

december 23rd is nasa's don pettit the

27

00:01:22,710 --> 00:01:19,920

european space agency's andre kuipers

28

00:01:25,030 --> 00:01:22,720

and cosmonaut oleg kononenko

29

00:01:27,350 --> 00:01:25,040

now into its 12th year of continuous

30

00:01:29,910 --> 00:01:27,360

human presence the world's only

31

00:01:32,230 --> 00:01:29,920

laboratory in microgravity has led to

32

00:01:34,310 --> 00:01:32,240

breakthroughs in science and technology

33

00:01:35,590 --> 00:01:34,320

that are improving our quality of life

34

00:01:37,990 --> 00:01:35,600

here on earth

35

00:01:40,630 --> 00:01:38,000

also changing lives is a spin-off of

36

00:01:44,149 --> 00:01:40,640

important equipment aboard the iss

37

00:01:46,710 --> 00:01:44,159

canadarm canadarm2 and dexter the

38

00:01:49,510 --> 00:01:46,720

canadian space agency's family of heavy

39

00:01:52,630 --> 00:01:49,520

lifting space robots onboard the iss

40

00:01:55,190 --> 00:01:52,640

have borne neuroarm the world's first

41

00:01:58,389 --> 00:01:55,200

robot capable of performing surgery

42

00:02:00,389 --> 00:01:58,399

inside magnetic resonance machines

43

00:02:03,190 --> 00:02:00,399

among the dozens of patients helped by

44

00:02:06,310 --> 00:02:03,200

narrow arm is paige nicholson of calgary

45

00:02:11,350 --> 00:02:06,320

alberta from whose brain neural arms

46

00:02:14,550 --> 00:02:13,110

administrator charlie bolden was at the

47

00:02:16,710 --> 00:02:14,560

marshall space flight center for a

48

00:02:18,869 --> 00:02:16,720

first-hand look at work on nasa's new

49

00:02:21,430 --> 00:02:18,879

space launch system the rocket that'll

50

00:02:23,270 --> 00:02:21,440

make deep space missions possible bolden

51  
00:02:25,350 --> 00:02:23,280  
toured marshall's thrust vector control

52  
00:02:28,070 --> 00:02:25,360  
test lab as well as the hardware in the

53  
00:02:29,830 --> 00:02:28,080  
loop simulation lab here engineers are

54  
00:02:32,309 --> 00:02:29,840  
developing and testing the new rockets

55  
00:02:34,309 --> 00:02:32,319  
guidance navigation and control software

56  
00:02:36,710 --> 00:02:34,319  
and avionics and thrust vector control

57  
00:02:39,350 --> 00:02:36,720  
hardware this integrated propulsion

58  
00:02:41,350 --> 00:02:39,360  
testbed using digital computer models

59  
00:02:43,350 --> 00:02:41,360  
demonstrates real-time flight control of

60  
00:02:45,910 --> 00:02:43,360  
the launch vehicle during ascent what

61  
00:02:47,430 --> 00:02:45,920  
we're able to do in this facility is

62  
00:02:48,790 --> 00:02:47,440  
take the hardware test it out a little

63  
00:02:50,470 --> 00:02:48,800

bit take the software test it out a

64

00:02:53,509 --> 00:02:50,480

little bit and marry them up right here

65

00:02:56,710 --> 00:02:53,519

in the sim lab so that you know we're

66

00:02:59,589 --> 00:02:56,720

going to have real live flight hardware

67

00:03:01,589 --> 00:02:59,599

with real live flight software married

68

00:03:02,949 --> 00:03:01,599

up in this facility so that if there's

69

00:03:04,949 --> 00:03:02,959

something that's going to go wrong we

70

00:03:06,550 --> 00:03:04,959

discover it here in huntsville before we

71

00:03:08,470 --> 00:03:06,560

take it to florida and put it on a

72

00:03:10,070 --> 00:03:08,480

vehicle the marshall center is leading

73

00:03:12,309 --> 00:03:10,080

design and development of the space

74

00:03:14,070 --> 00:03:12,319

launch system the new heavy lift launch

75

00:03:16,070 --> 00:03:14,080

vehicle will expand human presence

76  
00:03:17,910 --> 00:03:16,080  
beyond low earth orbit and enable new

77  
00:03:20,229 --> 00:03:17,920  
missions of exploration across the solar

78  
00:03:23,670 --> 00:03:20,239  
system its first full-scale test flight

79  
00:03:29,910 --> 00:03:27,670  
three two one the mighty eagle nasa's

80  
00:03:32,550 --> 00:03:29,920  
robotic lander designed to explore the

81  
00:03:35,350 --> 00:03:32,560  
surface of the moon asteroids and other

82  
00:03:37,750 --> 00:03:35,360  
destinations performed a successful

83  
00:03:40,149 --> 00:03:37,760  
altitude test flight at the redstone

84  
00:03:42,789 --> 00:03:40,159  
test center on redstone arsenal in

85  
00:03:43,830 --> 00:03:42,799  
huntsville as directed the lander

86  
00:03:46,949 --> 00:03:43,840  
hovered

87  
00:03:52,470 --> 00:03:46,959  
flew up to 100 feet before putting down

88  
00:03:57,910 --> 00:03:55,350



once again a nationwide survey ranks

89

00:04:00,149 --> 00:03:57,920

nasa among the best places to work in

90

00:04:02,470 --> 00:04:00,159

the federal government at number five

91

00:04:04,470 --> 00:04:02,480

the survey conducted by the non-profit

92

00:04:08,149 --> 00:04:04,480

non-partisan partnership for public

93

00:04:09,190 --> 00:04:08,159

service polled more than 276 000 federal

94

00:04:11,670 --> 00:04:09,200

workers

95

00:04:14,949 --> 00:04:11,680

placing first among nasa centers was

96

00:04:17,110 --> 00:04:14,959

stennis which out of 240 organizations

97

00:04:18,469 --> 00:04:17,120

within the federal government ranked

98

00:04:20,949 --> 00:04:18,479

number two

99

00:04:23,270 --> 00:04:20,959

stennis also topped the list of all

100

00:04:26,469 --> 00:04:23,280

federal organizations for employee

101  
00:04:29,110 --> 00:04:26,479  
empowerment fairness and support for

102  
00:04:31,110 --> 00:04:29,120  
diversity

103  
00:04:32,870 --> 00:04:31,120  
it seemed to me like this idea could be

104  
00:04:35,749 --> 00:04:32,880  
expanded it can be taken to the next

105  
00:04:37,909 --> 00:04:35,759  
level matthew ritzko a financial manager

106  
00:04:40,070 --> 00:04:37,919  
at the goddard space flight center is

107  
00:04:43,270 --> 00:04:40,080  
the winner of the third annual white

108  
00:04:45,510 --> 00:04:43,280  
house save award a contest that solicits

109  
00:04:47,030 --> 00:04:45,520  
cost cutting ideas from federal

110  
00:04:48,870 --> 00:04:47,040  
employees

111  
00:04:51,670 --> 00:04:48,880  
ritzko proposed establishing a

112  
00:04:54,469 --> 00:04:51,680  
centralized tool repository or lending

113  
00:04:56,310 --> 00:04:54,479

library for nasa employees to access

114

00:04:57,749 --> 00:04:56,320

when developing and building space

115

00:05:00,070 --> 00:04:57,759

flight projects

116

00:05:05,110 --> 00:05:00,080

ritzko's plan is being included in the

117

00:05:11,749 --> 00:05:07,590

the women at nasa website has expanded

118

00:05:13,670 --> 00:05:11,759

to include aspire to inspire a new

119

00:05:16,310 --> 00:05:13,680

feature aimed at helping middle school

120

00:05:17,990 --> 00:05:16,320

girls explore education and careers in

121

00:05:19,670 --> 00:05:18,000

science

122

00:05:21,350 --> 00:05:19,680

technology

123

00:05:22,790 --> 00:05:21,360

engineering

124

00:05:24,950 --> 00:05:22,800

and mathematics

125

00:05:26,870 --> 00:05:24,960

five videos explore the careers and

126  
00:05:29,830 --> 00:05:26,880  
backgrounds of early career women who

127  
00:05:32,950 --> 00:05:29,840  
work for nasa in each of the stem fields

128  
00:05:35,350 --> 00:05:32,960  
aspire to inspire also lists community

129  
00:05:38,230 --> 00:05:35,360  
organizations and nasa-affiliated

130  
00:05:40,469 --> 00:05:38,240  
outreach programs that emphasize stem

131  
00:05:42,070 --> 00:05:40,479  
four twitter feeds enable site visitors

132  
00:05:45,990 --> 00:05:42,080  
to interact with the young women

133  
00:05:50,150 --> 00:05:48,230  
nasa spin-offs are the subject of two

134  
00:05:53,590 --> 00:05:50,160  
new public service announcements airing

135  
00:05:55,350 --> 00:05:53,600  
on nasa tv speaking of space technology

136  
00:05:59,029 --> 00:05:55,360  
do you know that space is hidden all

137  
00:06:01,830 --> 00:05:59,039  
around you the first features elf 6409

138  
00:06:02,870 --> 00:06:01,840

ef from sony pictures new film arthur

139

00:06:05,670 --> 00:06:02,880

christmas

140

00:06:07,670 --> 00:06:05,680

our animated protagonist illustrates how

141

00:06:10,469 --> 00:06:07,680

nasa developed space technologies are

142

00:06:12,390 --> 00:06:10,479

making our lives better here on earth

143

00:06:14,430 --> 00:06:12,400

hi i'm norah jones and i'm pierce

144

00:06:17,110 --> 00:06:14,440

sellers and grammy-winning

145

00:06:18,950 --> 00:06:17,120

singer-songwriter norah jones teams up

146

00:06:20,629 --> 00:06:18,960

with astronaut piers sellers on the

147

00:06:22,870 --> 00:06:20,639

second psa

148

00:06:27,830 --> 00:06:22,880

jones and sellers recorded their message

149

00:06:31,350 --> 00:06:28,830

for

150

00:06:35,590 --> 00:06:31,360

spacious skies

151  
00:06:39,749 --> 00:06:37,670  
after jones singing of america the

152  
00:06:42,150 --> 00:06:39,759  
beautiful at the recent congressional

153  
00:06:43,510 --> 00:06:42,160  
gold medal award ceremony on capitol

154  
00:06:50,629 --> 00:06:43,520  
hill

155  
00:06:54,390 --> 00:06:52,309  
and while you ate thanksgiving dinner

156  
00:06:56,790 --> 00:06:54,400  
and watched football on tv

157  
00:06:59,270 --> 00:06:56,800  
nasa astronaut dan burbank russian

158  
00:07:01,990 --> 00:06:59,280  
cosmonauts anton shkaplerov and anatoly

159  
00:07:05,110 --> 00:07:02,000  
ivanishin passed the irradiated smoked

160  
00:07:08,469 --> 00:07:05,120  
turkey thermostatable yams and freeze

161  
00:07:10,150 --> 00:07:08,479  
dried green beans plenty of vegetables

162  
00:07:11,990 --> 00:07:10,160  
just like the pilgrims their

163  
00:07:14,230 --> 00:07:12,000

international space station meal of

164

00:07:15,749 --> 00:07:14,240

thanks also included nasa's own

165

00:07:17,990 --> 00:07:15,759

cornbread dressing

166

00:07:20,150 --> 00:07:18,000

home style potatoes and

167

00:07:23,029 --> 00:07:20,160

some cranberries

168

00:07:25,749 --> 00:07:23,039

for dessert what could be better than

169

00:07:27,990 --> 00:07:25,759

cherry blueberry cobbler and the best

170

00:07:29,990 --> 00:07:28,000

view from any thanksgiving table

171

00:07:32,629 --> 00:07:30,000

anywhere

172

00:07:34,710 --> 00:07:32,639

and that's this week at nasa for more on