
marshall
NASA
NASA
Bill Hubscher Reporting, MSFC

1
00:00:07,040 --> 00:00:10,549
this week at nasa

2
00:00:12,470 --> 00:00:11,589
three

3
00:00:17,830 --> 00:00:12,480
two

4
00:00:23,509 --> 00:00:20,710
at 10 14 a.m monday kazakhstan time a

5
00:00:25,029 --> 00:00:23,519
soyuz tma-22 spacecraft launched to the

6
00:00:27,429 --> 00:00:25,039
international space station from the

7
00:00:30,070 --> 00:00:27,439
baikonur cosmodrome carrying nasa

8
00:00:33,750 --> 00:00:30,080
astronaut dan burbank and cosmonauts

9
00:00:35,270 --> 00:00:33,760
anatoly ivanishin and anton shakapurov

10
00:00:37,670 --> 00:00:35,280
the three are scheduled to hook up with

11
00:00:40,310 --> 00:00:37,680
fellow expedition 29 crew members mike

12
00:00:42,709 --> 00:00:40,320
fossum sergey volkov and satoshi

13
00:00:44,950 --> 00:00:42,719

furukawa aboard the international space

14
00:00:48,229 --> 00:00:44,960
station on november 16th

15
00:00:49,750 --> 00:00:48,239
meanwhile fossum volkov and furukawa are

16
00:00:52,470 --> 00:00:49,760
scheduled to depart the orbiting

17
00:00:57,189 --> 00:00:52,480
laboratory on november 21st and land

18
00:01:01,110 --> 00:00:59,110
i'm also looking forward to going home

19
00:01:04,549 --> 00:01:01,120
in two weeks i've been up here for five

20
00:01:06,550 --> 00:01:04,559
months fossum commander of expedition 29

21
00:01:08,149 --> 00:01:06,560
had a wrapped audience of students at

22
00:01:10,830 --> 00:01:08,159
the department of education in

23
00:01:13,190 --> 00:01:10,840
washington to celebrate international

24
00:01:14,710 --> 00:01:13,200
education week participating in the

25
00:01:16,870 --> 00:01:14,720
in-flight call to the international

26
00:01:19,510 --> 00:01:16,880
space station we're deputy secretary of

27
00:01:21,830 --> 00:01:19,520
education tony miller and nasa associate

28
00:01:24,230 --> 00:01:21,840
administrator for education and former

29
00:01:26,230 --> 00:01:24,240
astronaut leland melvin do you feel more

30
00:01:27,590 --> 00:01:26,240
energetic in space as compared to

31
00:01:29,350 --> 00:01:27,600
working on earth

32
00:01:30,550 --> 00:01:29,360
okay aaron that's an interesting

33
00:01:33,270 --> 00:01:30,560
question

34
00:01:34,870 --> 00:01:33,280
i i'm not sure i could tell anymore i've

35
00:01:36,870 --> 00:01:34,880
been up here so long i'm completely

36
00:01:38,870 --> 00:01:36,880
adapted i'm now as

37
00:01:41,190 --> 00:01:38,880
you know i'm now a space being i think

38
00:01:43,429 --> 00:01:41,200

in another event students of several

39
00:01:45,510 --> 00:01:43,439
alabama school districts got together in

40
00:01:49,030 --> 00:01:45,520
birmingham to speak with fossum about

41
00:01:52,230 --> 00:01:49,040
his experiences on the station

42
00:01:55,510 --> 00:01:52,240
here i am very proud to say that msl has

43
00:01:58,149 --> 00:01:55,520
been assembled tested encapsulated and

44
00:02:00,310 --> 00:01:58,159
stacked on top of the atlas and is ready

45
00:02:03,109 --> 00:02:00,320
to go the mars science laboratory

46
00:02:05,590 --> 00:02:03,119
curiosity rover appears ready for its

47
00:02:08,150 --> 00:02:05,600
upcoming mission to the red planet it

48
00:02:10,150 --> 00:02:08,160
sits atop the atlas 5 rocket at cape

49
00:02:12,150 --> 00:02:10,160
canaveral air force station's launch

50
00:02:14,710 --> 00:02:12,160
complex 41

51
00:02:17,750 --> 00:02:14,720
msl is scheduled to begin its nine-month

52
00:02:20,309 --> 00:02:17,760
journey to mars on november 25th where

53
00:02:22,309 --> 00:02:20,319
it'll use its 10 science instruments to

54
00:02:24,470 --> 00:02:22,319
search for evidence about whether mars

55
00:02:26,150 --> 00:02:24,480
has had environments favorable for

56
00:02:28,790 --> 00:02:26,160
microbial life

57
00:02:31,350 --> 00:02:28,800
the car sized curiosity is scheduled to

58
00:02:34,390 --> 00:02:31,360
land inside the planet's gale crater

59
00:02:39,030 --> 00:02:36,630
nasa plans to add an unmanned flight

60
00:02:40,550 --> 00:02:39,040
test of the orion spacecraft in early

61
00:02:43,990 --> 00:02:40,560
2014.

62
00:02:46,630 --> 00:02:44,000
this exploration flight test or eft-1

63
00:02:48,630 --> 00:02:46,640

will fly two orbits to a high apogee

64
00:02:50,949 --> 00:02:48,640
with a high-energy re-entry through

65
00:02:53,110 --> 00:02:50,959
earth's atmosphere the orion

66
00:02:55,670 --> 00:02:53,120
multipurpose crew vehicle will make a

67
00:02:57,910 --> 00:02:55,680
water landing and be recovered using

68
00:03:00,470 --> 00:02:57,920
operations planned for future human

69
00:03:02,070 --> 00:03:00,480
exploration missions the test mission

70
00:03:05,110 --> 00:03:02,080
will be launched from cape canaveral

71
00:03:07,509 --> 00:03:05,120
florida in support of nasa's new space

72
00:03:10,390 --> 00:03:07,519
launch system to take astronauts farther

73
00:03:13,110 --> 00:03:10,400
into space than ever before create u.s

74
00:03:15,430 --> 00:03:13,120
jobs and provide the cornerstone for

75
00:03:25,670 --> 00:03:15,440
america's future human space flight

76
00:03:30,390 --> 00:03:28,390
meanwhile orion's capabilities for water

77
00:03:32,949 --> 00:03:30,400
landings continue to be tested at the

78
00:03:35,110 --> 00:03:32,959
langley research center this was the

79
00:03:38,149 --> 00:03:35,120
latest in a series of so-called drop

80
00:03:41,110 --> 00:03:38,159
tests of a 22 000 pound orion test

81
00:03:44,309 --> 00:03:41,120
article at the center's new 1.7 million

82
00:03:46,390 --> 00:03:44,319
dollar hydro impact basin facility

83
00:03:50,470 --> 00:03:46,400
three more orion drop tests are

84
00:03:52,470 --> 00:03:51,509
one

85
00:03:53,270 --> 00:03:52,480
two

86
00:03:55,270 --> 00:03:53,280
three

87
00:03:57,589 --> 00:03:55,280
another key component of the space

88
00:04:00,390 --> 00:03:57,599

launch system was put through its paces

89
00:04:02,630 --> 00:04:00,400
at the stennis space center the j-2x

90
00:04:05,030 --> 00:04:02,640
rocket engine which will help carry the

91
00:04:07,509 --> 00:04:05,040
orion spacecraft and its crew cargo

92
00:04:10,470 --> 00:04:07,519
equipment and science experiments beyond

93
00:04:13,990 --> 00:04:10,480
earth orbit was successfully test-fired

94
00:04:15,990 --> 00:04:14,000
for 500 seconds

95
00:04:18,469 --> 00:04:16,000
may have been relatively close but

96
00:04:23,830 --> 00:04:18,479
fortunately there was no cigar for

97
00:04:25,909 --> 00:04:23,840
asteroid 2005 yu55 as it passed by earth

98
00:04:28,070 --> 00:04:25,919
these images were captured by nasa's

99
00:04:30,629 --> 00:04:28,080
deep space network array at goldstone

100
00:04:33,430 --> 00:04:30,639
california as the space rock made its

101
00:04:36,870 --> 00:04:33,440
approach to our planet about 202 000

102
00:04:39,510 --> 00:04:36,880
miles at its closest

103
00:04:41,510 --> 00:04:39,520
cornell university professor mason peck

104
00:04:44,070 --> 00:04:41,520
has been named as nasa's new chief

105
00:04:45,670 --> 00:04:44,080
technologist effective in january

106
00:04:47,430 --> 00:04:45,680
peck will serve as the agency's

107
00:04:49,749 --> 00:04:47,440
principal advisor and advocate on

108
00:04:53,030 --> 00:04:49,759
matters concerning technology policy and

109
00:04:56,469 --> 00:04:53,040
programs he succeeds bobby braun who has

110
00:04:58,710 --> 00:04:56,479
returned to academia

111
00:05:00,629 --> 00:04:58,720
former nasa astronaut and space shuttle

112
00:05:03,029 --> 00:05:00,639
pilot robert crippen helped nasa's

113
00:05:06,070 --> 00:05:03,039

marshall space flight center start safe

114
00:05:08,390 --> 00:05:06,080
and stay safe during the 2011 safety and

115
00:05:09,749 --> 00:05:08,400
wellness day activities october 26th at

116
00:05:11,430 --> 00:05:09,759
the center

117
00:05:13,270 --> 00:05:11,440
crippen spoke to team members about

118
00:05:16,070 --> 00:05:13,280
safety in the workplace and about his

119
00:05:18,469 --> 00:05:16,080
experiences piloting sts-1 the very

120
00:05:23,350 --> 00:05:18,479
first shuttle flight and commanding

121
00:05:27,990 --> 00:05:25,110
they came to hampton virginia from as

122
00:05:30,710 --> 00:05:28,000
far away as wisconsin maine and florida

123
00:05:33,029 --> 00:05:30,720
on their own dime with their smartphones

124
00:05:35,670 --> 00:05:33,039
and cameras in hand to see behind the

125
00:05:36,870 --> 00:05:35,680
scenes at nasa's langley research center

126
00:05:39,909 --> 00:05:36,880
first stop

127
00:05:42,310 --> 00:05:39,919
the hanger with its 11 aircraft of many

128
00:05:44,230 --> 00:05:42,320
shapes sizes and missions

129
00:05:46,790 --> 00:05:44,240
in the group were some of nasa's biggest

130
00:05:49,350 --> 00:05:46,800
fans twitter followers

131
00:05:51,189 --> 00:05:49,360
this was nasa langley's first tweet up

132
00:05:53,189 --> 00:05:51,199
an informal gathering of people who use

133
00:05:55,430 --> 00:05:53,199
the social media twitter you all have

134
00:05:56,710 --> 00:05:55,440
done an awesome job and it's just been

135
00:05:58,309 --> 00:05:56,720
just wonderful

136
00:06:00,309 --> 00:05:58,319
the day long adventure included not only

137
00:06:02,469 --> 00:06:00,319
a look at langley research facilities

138
00:06:05,189 --> 00:06:02,479

but also lunch with an astronaut

139
00:06:07,270 --> 00:06:05,199
two-time shuttle veteran susan kilrain

140
00:06:09,590 --> 00:06:07,280
working in space after all that is why

141
00:06:11,270 --> 00:06:09,600
we did why we're there plus there were

142
00:06:13,590 --> 00:06:11,280
autographs to take home and lots of

143
00:06:15,270 --> 00:06:13,600
photo ops to capture for themselves and

144
00:06:19,350 --> 00:06:15,280
share with the outside world through

145
00:06:22,870 --> 00:06:20,790
some of the next generation of

146
00:06:24,870 --> 00:06:22,880
scientists and engineers recently

147
00:06:26,710 --> 00:06:24,880
attended a special event at nasa ames

148
00:06:28,710 --> 00:06:26,720
research center the tour was

149
00:06:30,950 --> 00:06:28,720
specifically for a group of attendees of

150
00:06:33,029 --> 00:06:30,960
the 2011 national conference of the

151
00:06:36,469 --> 00:06:33,039
society for advancement of chicanos and

152
00:06:38,070 --> 00:06:36,479
native americans in science or sacnas

153
00:06:40,070 --> 00:06:38,080
the field trip was an opportunity to

154
00:06:42,629 --> 00:06:40,080
visit some of the key facilities at nasa

155
00:06:44,390 --> 00:06:42,639
ames such as the pleiades supercomputer

156
00:06:46,309 --> 00:06:44,400
and the hyperwall as well as an

157
00:06:48,469 --> 00:06:46,319
opportunity to talk with researchers and

158
00:06:50,950 --> 00:06:48,479
ask questions about their work we want

159
00:06:53,110 --> 00:06:50,960
to cultivate our next generation of

160
00:06:55,670 --> 00:06:53,120
scientists and engineers here at nasa we

161
00:06:58,230 --> 00:06:55,680
want to ensure our future and in order

162
00:07:00,950 --> 00:06:58,240
to do that we need to educate the next

163
00:07:05,589 --> 00:07:00,960

generation and more importantly motivate

164
00:07:09,270 --> 00:07:07,430
today the jet propulsion laboratory is

165
00:07:12,309 --> 00:07:09,280
nasa's major center for robotic

166
00:07:15,029 --> 00:07:12,319
exploration of the solar system but 75

167
00:07:17,589 --> 00:07:15,039
years ago this was just a brush covered

168
00:07:19,830 --> 00:07:17,599
wash below the towering san gabriel

169
00:07:22,230 --> 00:07:19,840
mountains

170
00:07:25,909 --> 00:07:22,240
in one of its sandia royals on october

171
00:07:28,390 --> 00:07:25,919
31 1936 a group of cal tech students and

172
00:07:30,629 --> 00:07:28,400
rocket enthusiasts nicknamed the suicide

173
00:07:32,950 --> 00:07:30,639
squad performed their first stand-up

174
00:07:37,430 --> 00:07:32,960
rocket engine test

175
00:07:42,550 --> 00:07:39,909
on the 75th anniversary of that historic

176
00:07:45,029 --> 00:07:42,560
event jplers were treated to private

177
00:07:47,670 --> 00:07:45,039
employee screenings of the documentary

178
00:07:52,230 --> 00:07:47,680
the american rocketeer

179
00:07:54,710 --> 00:07:52,240
of the lab's first full-time director

180
00:07:58,390 --> 00:07:54,720
frank molina one of the visionaries that

181
00:08:00,790 --> 00:07:58,400
led jpl in its reach for the stars

182
00:08:03,670 --> 00:08:00,800
the american rocketeer is part of a

183
00:08:05,510 --> 00:08:03,680
documentary series about jpl called the

184
00:08:07,670 --> 00:08:05,520
beginnings of the space age that

185
00:08:12,550 --> 00:08:07,680
premiered on public television station

186
00:08:15,189 --> 00:08:12,560
kcet in los angeles in november

187
00:08:17,510 --> 00:08:15,199
and that's this week at nasa