
Lockheed Martin Space Systems
Denver, Colorado

1
00:00:06,879 --> 00:00:10,870
this week at nasa

2
00:00:15,430 --> 00:00:13,030
let me welcome you administrator charles

3
00:00:17,750 --> 00:00:15,440
bolden and chief financial officer beth

4
00:00:20,390 --> 00:00:17,760
robinson rolled out the budget president

5
00:00:23,109 --> 00:00:20,400
obama has proposed for nasa in fiscal

6
00:00:25,269 --> 00:00:23,119
year 2012. bolden told media at a

7
00:00:27,670 --> 00:00:25,279
washington news conference that despite

8
00:00:29,990 --> 00:00:27,680
austere times the proposed budget will

9
00:00:32,310 --> 00:00:30,000
allow nasa to continue to innovate

10
00:00:35,190 --> 00:00:32,320
educate and build for the good of not

11
00:00:37,190 --> 00:00:35,200
only the agency but also the nation this

12
00:00:40,150 --> 00:00:37,200
budget requires us to live within our

13
00:00:42,310 --> 00:00:40,160

means so we can invest in our future

14
00:00:45,590 --> 00:00:42,320
it maintains our strong commitment to

15
00:00:47,670 --> 00:00:45,600
human space flight and new technologies

16
00:00:50,310 --> 00:00:47,680
it establishes critical priorities and

17
00:00:52,790 --> 00:00:50,320
invests in excellent science

18
00:00:54,709 --> 00:00:52,800
aeronautics research and education

19
00:00:57,750 --> 00:00:54,719
programs that will help us win the

20
00:01:00,069 --> 00:00:57,760
future bolden also noted that this focus

21
00:01:02,389 --> 00:01:00,079
on technological advancement will allow

22
00:01:04,630 --> 00:01:02,399
nasa to expand its human exploration of

23
00:01:07,510 --> 00:01:04,640
space in the decades ahead the

24
00:01:09,429 --> 00:01:07,520
president's fiscal year 2012 budget

25
00:01:12,310 --> 00:01:09,439
funds a diverse array of human space

26
00:01:13,750 --> 00:01:12,320
flight programs that maximize our use of

27
00:01:15,749 --> 00:01:13,760
current capabilities such as the

28
00:01:17,990 --> 00:01:15,759
international space station

29
00:01:21,270 --> 00:01:18,000
facilitate innovative approaches to

30
00:01:24,230 --> 00:01:21,280
ensure us leadership in low earth orbit

31
00:01:27,830 --> 00:01:24,240
and position us to explore frontiers of

32
00:01:29,670 --> 00:01:27,840
deep space taken together these human

33
00:01:32,149 --> 00:01:29,680
space flight initiatives will enable

34
00:01:34,310 --> 00:01:32,159
america to retain its position as a

35
00:01:37,749 --> 00:01:34,320
leader in space exploration for

36
00:01:42,469 --> 00:01:40,069
nasa managers have announced an official

37
00:01:43,069 --> 00:01:42,479
launch date for space shuttle discovery

38
00:01:45,670 --> 00:01:43,079

on

39
00:01:47,830 --> 00:01:45,680
sts-133 we had a

40
00:01:49,990 --> 00:01:47,840
really thorough review today and

41
00:01:53,510 --> 00:01:50,000
we set the 24th at

42
00:01:55,429 --> 00:01:53,520
4 50 p.m for the launch of discovery the

43
00:01:58,469 --> 00:01:55,439
announcement came at the conclusion of

44
00:02:00,469 --> 00:01:58,479
the flight readiness review or fr a

45
00:02:03,030 --> 00:02:00,479
meeting to assess and determine if

46
00:02:04,550 --> 00:02:03,040
preparations for flight are on target i

47
00:02:06,630 --> 00:02:04,560
can't say enough about the work that the

48
00:02:08,469 --> 00:02:06,640
teams have done they did a tremendous

49
00:02:10,790 --> 00:02:08,479
job down here at the cape

50
00:02:13,190 --> 00:02:10,800
removing the foam installing the radius

51
00:02:15,270 --> 00:02:13,200
blocks making the modifications getting

52
00:02:17,350 --> 00:02:15,280
the orbiter back out at the pad the team

53
00:02:19,030 --> 00:02:17,360
just did a tremendous job the amount of

54
00:02:21,030 --> 00:02:19,040
effort and work that went into this is

55
00:02:22,390 --> 00:02:21,040
is really truly amazing

56
00:02:23,750 --> 00:02:22,400
and then you couple that it's at the end

57
00:02:25,990 --> 00:02:23,760
of the program and we're done building

58
00:02:27,270 --> 00:02:26,000
tanks and we've effectively uh almost

59
00:02:29,830 --> 00:02:27,280
all but turned out the lights at that

60
00:02:31,589 --> 00:02:29,840
math facility uh to have this type of

61
00:02:33,509 --> 00:02:31,599
failure come in that requires a whole

62
00:02:35,670 --> 00:02:33,519
lot of test and analysis is a real

63
00:02:37,910 --> 00:02:35,680

testament to the to the dedication and

64
00:02:40,070 --> 00:02:37,920
loyalty of those folks to to step up

65
00:02:41,350 --> 00:02:40,080
and and really come out and help us

66
00:02:42,470 --> 00:02:41,360
everything's going really really well

67
00:02:43,830 --> 00:02:42,480
looking forward to the countdown

68
00:02:44,990 --> 00:02:43,840
starting monday and a lift off next

69
00:02:47,750 --> 00:02:45,000
thursday

70
00:02:49,830 --> 00:02:47,760
sts-133 will be the 35th shuttle mission

71
00:02:51,509 --> 00:02:49,840
to the international space station

72
00:02:54,150 --> 00:02:51,519
discovery will carry crew members

73
00:02:56,309 --> 00:02:54,160
commander steve lindsey pilot eric boe

74
00:02:58,390 --> 00:02:56,319
and mission specialists alvin drew

75
00:02:59,589 --> 00:02:58,400
michael barrett steve bowen and nicole

76
00:03:01,670 --> 00:02:59,599
stott

77
00:03:04,710 --> 00:03:01,680
this is discovery's final flight to the

78
00:03:07,110 --> 00:03:04,720
complex a retirement well earned with a

79
00:03:09,830 --> 00:03:07,120
total of 38 missions discovery has made

80
00:03:11,670 --> 00:03:09,840
more flights than any other shuttle

81
00:03:14,390 --> 00:03:11,680
she's carried satellites like the hubble

82
00:03:16,949 --> 00:03:14,400
space telescope and the ulysses robotic

83
00:03:19,589 --> 00:03:16,959
probe into space delivered the japanese

84
00:03:21,270 --> 00:03:19,599
kibo laboratory to the iss and was the

85
00:03:25,750 --> 00:03:21,280
first shuttle to rendezvous with the

86
00:03:31,110 --> 00:03:28,550
it's like sending a paper airplane

87
00:03:34,070 --> 00:03:31,120
expedition 26 flight engineers dmitry

88
00:03:35,990 --> 00:03:34,080

kandratiev and olex gripochka performed

89
00:03:36,869 --> 00:03:36,000
their second spacewalk in less than a

90
00:03:38,710 --> 00:03:36,879
month

91
00:03:40,949 --> 00:03:38,720
they ventured outside the international

92
00:03:42,630 --> 00:03:40,959
space station to install a pair of

93
00:03:43,910 --> 00:03:42,640
earthquake and lightning sensing

94
00:03:45,990 --> 00:03:43,920
experiments

95
00:03:47,589 --> 00:03:46,000
they also retrieved a pair of exposed

96
00:03:50,070 --> 00:03:47,599
panels that will help international

97
00:03:52,229 --> 00:03:50,080
researchers determine the best materials

98
00:03:53,750 --> 00:03:52,239
to use in building long duration

99
00:03:56,070 --> 00:03:53,760
spacecraft

100
00:03:58,390 --> 00:03:56,080
retrieving a similar materials exposure

101
00:03:59,990 --> 00:03:58,400
package was among the tests the two

102
00:04:10,550 --> 00:04:00,000
cosmonauts performed during their

103
00:04:15,509 --> 00:04:12,390
after the successful launch of its

104
00:04:17,909 --> 00:04:15,519
aureon 5 rocket from kuru french guyana

105
00:04:21,430 --> 00:04:17,919
the johannes kepler automated transfer

106
00:04:23,350 --> 00:04:21,440
vehicle 2 or atv2 is on its way to the

107
00:04:25,990 --> 00:04:23,360
international space station

108
00:04:28,629 --> 00:04:26,000
the unpiloted european cargo ship will

109
00:04:31,510 --> 00:04:28,639
deliver some seven tons of fuel food and

110
00:04:33,990 --> 00:04:31,520
supplies to the orbiting complex

111
00:04:35,909 --> 00:04:34,000
eight days after launch the atv is

112
00:04:38,310 --> 00:04:35,919
scheduled to rendezvous and dock to the

113
00:04:39,350 --> 00:04:38,320

af port of the station's zvezda service

114
00:04:41,350 --> 00:04:39,360
module

115
00:04:43,749 --> 00:04:41,360
it will remain there until june when

116
00:04:46,070 --> 00:04:43,759
it'll undock and de-orbit then burn up

117
00:04:49,510 --> 00:04:46,080
upon re-entry into earth's atmosphere

118
00:04:56,150 --> 00:04:52,150
we have 122 images we've collected all

119
00:05:00,310 --> 00:04:57,909
the stardust next mission had its

120
00:05:02,870 --> 00:05:00,320
valentine's day date with a comet when

121
00:05:04,070 --> 00:05:02,880
it flew by comet temple 1 on february

122
00:05:06,310 --> 00:05:04,080
14th

123
00:05:09,189 --> 00:05:06,320
at its nearest approach the spacecraft

124
00:05:10,710 --> 00:05:09,199
got within 112 miles of the comet and

125
00:05:12,870 --> 00:05:10,720
sent back about six dozen

126
00:05:14,550 --> 00:05:12,880
high-resolution images

127
00:05:16,870 --> 00:05:14,560
scientists had hoped to see any

128
00:05:19,350 --> 00:05:16,880
differences in the comet since a probe

129
00:05:21,670 --> 00:05:19,360
from nasa's deep impact mission crashed

130
00:05:24,870 --> 00:05:21,680
into its surface on the 4th of july in

131
00:05:27,430 --> 00:05:24,880
2005. if you ask me

132
00:05:30,230 --> 00:05:27,440
was this mission a hundred percent

133
00:05:31,670 --> 00:05:30,240
successful in terms of the science

134
00:05:33,749 --> 00:05:31,680
i would have to say no

135
00:05:36,150 --> 00:05:33,759
it was a thousand percent successful

136
00:05:38,710 --> 00:05:36,160
each one of the 72 images taken by

137
00:05:41,270 --> 00:05:38,720
stardust next took about 15 minutes to

138
00:05:43,350 --> 00:05:41,280

download in all about 10 hours were

139
00:05:45,670 --> 00:05:43,360
needed to transmit all the pictures and

140
00:05:47,749 --> 00:05:45,680
science data from the spacecraft

141
00:05:50,830 --> 00:05:47,759
in the six years since deep impact

142
00:05:52,790 --> 00:05:50,840
temple 1 has completed one orbit of the

143
00:05:57,430 --> 00:05:52,800
sun

144
00:06:01,909 --> 00:05:59,830
a group of 55 science and space

145
00:06:04,070 --> 00:06:01,919
enthusiasts who follow the nasa ames

146
00:06:06,150 --> 00:06:04,080
twitter account were invited to nasa

147
00:06:08,230 --> 00:06:06,160
ames research center to participate in

148
00:06:11,270 --> 00:06:08,240
an event called a tweet up

149
00:06:13,270 --> 00:06:11,280
these tweeps or people who use twitter

150
00:06:15,270 --> 00:06:13,280
were given a rare opportunity to tour

151
00:06:17,430 --> 00:06:15,280
the labs at nasa ames listen to

152
00:06:19,350 --> 00:06:17,440
presentations and get answers to their

153
00:06:21,830 --> 00:06:19,360
questions from researchers who work at

154
00:06:24,230 --> 00:06:21,840
the center social networking is is

155
00:06:26,629 --> 00:06:24,240
really critical uh

156
00:06:28,390 --> 00:06:26,639
as we move forward as a country

157
00:06:30,230 --> 00:06:28,400
this is an increasing way where the

158
00:06:31,909 --> 00:06:30,240
public particularly interested public

159
00:06:34,550 --> 00:06:31,919
can actually participate

160
00:06:36,309 --> 00:06:34,560
and and ride with us as we as we do the

161
00:06:38,469 --> 00:06:36,319
wonderful things we do at nasa

162
00:06:40,469 --> 00:06:38,479
throughout the day the participants were

163
00:06:43,350 --> 00:06:40,479

busy taking pictures and tweeting about

164
00:06:45,590 --> 00:06:43,360
their experiences 140 characters or

165
00:06:47,029 --> 00:06:45,600
about 20 words at a time

166
00:06:49,189 --> 00:06:47,039
i think nasa's involvement in social

167
00:06:51,189 --> 00:06:49,199
media and twitter is awesome

168
00:06:53,189 --> 00:06:51,199
i think it's a really great way to get

169
00:06:55,510 --> 00:06:53,199
the word out to the public about what's

170
00:06:57,350 --> 00:06:55,520
going on with nasa and kind of giving

171
00:06:58,550 --> 00:06:57,360
everyone an insider view of what's

172
00:07:00,070 --> 00:06:58,560
actually happening

173
00:07:02,309 --> 00:07:00,080
researchers shared their latest

174
00:07:04,469 --> 00:07:02,319
discoveries and demonstrated some of the

175
00:07:06,070 --> 00:07:04,479
unique facilities at nasa ames during

176
00:07:08,870 --> 00:07:06,080
the tweet up event

177
00:07:11,029 --> 00:07:08,880
the attendees came from 18 states and

178
00:07:13,749 --> 00:07:11,039
five countries to take part in the tweet

179
00:07:15,589 --> 00:07:13,759
up one in particular had a class of his

180
00:07:17,830 --> 00:07:15,599
students back in nashville tennessee

181
00:07:20,150 --> 00:07:17,840
following his tweets throughout the day

182
00:07:22,629 --> 00:07:20,160
my students are learning how to use

183
00:07:23,909 --> 00:07:22,639
social media in the class so one of the

184
00:07:25,189 --> 00:07:23,919
things we've been doing is twittering

185
00:07:26,870 --> 00:07:25,199
facebooking doing all the different

186
00:07:28,870 --> 00:07:26,880
kinds of things i've had a wonderful

187
00:07:31,189 --> 00:07:28,880
time here and it will use this

188
00:07:33,510 --> 00:07:31,199

information that i've learned here to

189
00:07:35,430 --> 00:07:33,520
help with science programs that we have

190
00:07:37,830 --> 00:07:35,440
in our high school and in our county

191
00:07:40,230 --> 00:07:37,840
given the enthusiastic response online

192
00:07:42,469 --> 00:07:40,240
and it aims this will likely be the

193
00:07:45,110 --> 00:07:42,479
first of many more tweet up events to

194
00:07:47,350 --> 00:07:45,120
come

195
00:07:49,029 --> 00:07:47,360
more than 200 seventh graders recently

196
00:07:51,510 --> 00:07:49,039
experienced a variety of hands-on

197
00:07:53,589 --> 00:07:51,520
learning activities during the 2011 bon

198
00:07:55,510 --> 00:07:53,599
meyer math and science odyssey at

199
00:07:56,790 --> 00:07:55,520
antelope valley college in lancaster

200
00:07:58,869 --> 00:07:56,800
california

201
00:08:00,950 --> 00:07:58,879
students from eight area middle schools

202
00:08:02,710 --> 00:08:00,960
attended workshops led by professionals

203
00:08:04,710 --> 00:08:02,720
from nasa's dryden flight research

204
00:08:06,550 --> 00:08:04,720
center antelope valley college and

205
00:08:09,029 --> 00:08:06,560
lockheed martin in the fields of

206
00:08:11,110 --> 00:08:09,039
engineering meteorology physics

207
00:08:12,950 --> 00:08:11,120
chemistry and mathematics

208
00:08:15,189 --> 00:08:12,960
the math science odyssey is named for

209
00:08:17,270 --> 00:08:15,199
the late marta von meyer former chief

210
00:08:19,510 --> 00:08:17,280
engineer at nasa dryden who was a

211
00:08:22,309 --> 00:08:19,520
regular participant in the event her

212
00:08:24,629 --> 00:08:22,319
husband bob meyer nasa's program manager

213
00:08:26,790 --> 00:08:24,639

for the sofia flying observatory

214
00:08:28,869 --> 00:08:26,800
challenged attendees to focus on math

215
00:08:31,029 --> 00:08:28,879
and science classes that could lead to

216
00:08:33,190 --> 00:08:31,039
rewarding careers in engineering and

217
00:08:36,550 --> 00:08:33,200
technology for myself so you have a real

218
00:08:38,230 --> 00:08:36,560
opportunity today take advantage of it

219
00:08:39,750 --> 00:08:38,240
walk around learn talk to people that

220
00:08:41,269 --> 00:08:39,760
are here today and have gone down the

221
00:08:43,029 --> 00:08:41,279
path before you

222
00:08:45,110 --> 00:08:43,039
you've probably heard the saying when

223
00:08:46,310 --> 00:08:45,120
opportunity knocks open the door

224
00:08:47,990 --> 00:08:46,320
well martin

225
00:08:49,670 --> 00:08:48,000
liked to modify that a bit and said when

226
00:08:51,670 --> 00:08:49,680
opportunity knocks open the door but

227
00:08:53,910 --> 00:08:51,680
don't forget to walk through

228
00:08:55,590 --> 00:08:53,920
aim high as your attitude in life

229
00:08:57,670 --> 00:08:55,600
determines the altitude you'll achieve

230
00:08:59,670 --> 00:08:57,680
just like in aviation the odyssey

231
00:09:01,590 --> 00:08:59,680
featured a series of three workshops

232
00:09:03,910 --> 00:09:01,600
focused on engineering and science

233
00:09:06,310 --> 00:09:03,920
medical technology and environmental or

234
00:09:08,389 --> 00:09:06,320
green technologies as well as hands-on

235
00:09:10,070 --> 00:09:08,399
activities and aircraft life support

236
00:09:11,990 --> 00:09:10,080
equipment demonstrations

237
00:09:17,829 --> 00:09:12,000
today's activities wrapped up with a

238
00:09:24,150 --> 00:09:22,150

34 years ago on february 18 1977

239
00:09:26,470 --> 00:09:24,160
nasa's first space shuttle orbiter

240
00:09:28,230 --> 00:09:26,480
enterprise conducted its first flight

241
00:09:29,350 --> 00:09:28,240
test at the dryden flight research

242
00:09:31,509 --> 00:09:29,360
center

243
00:09:34,310 --> 00:09:31,519
constructed without an engine the craft

244
00:09:36,710 --> 00:09:34,320
was mounted atop a boeing 747 shuttle

245
00:09:38,949 --> 00:09:36,720
carrier aircraft to measure structural

246
00:09:42,230 --> 00:09:38,959
loads ground handling and other

247
00:09:44,870 --> 00:09:42,240
capabilities prior to atmospheric flight

248
00:09:46,870 --> 00:09:44,880
while enterprise never flew in space its

249
00:09:49,269 --> 00:09:46,880
series of approach and landing tests

250
00:09:52,470 --> 00:09:49,279
that year proved the orbiter could fly

251
00:09:54,470 --> 00:09:52,480
in the atmosphere and land like a glider

252
00:09:56,470 --> 00:09:54,480
enterprise was named for the starship on

253
00:09:58,230 --> 00:09:56,480
the popular television series of that

254
00:10:00,070 --> 00:09:58,240
time star trek

255
00:10:01,990 --> 00:10:00,080
today you can see enterprise in the

256
00:10:04,949 --> 00:10:02,000
smithsonian national air and space

257
00:10:06,710 --> 00:10:04,959
museum's udvar hazy center in chantilly

258
00:10:09,670 --> 00:10:06,720
virginia

259
00:10:12,230 --> 00:10:09,680
and that's this week at nasa for more on