



1
00:00:06,960 --> 00:00:11,110
this week at nasa

2
00:00:15,990 --> 00:00:13,749
speaking on behalf of president obama

3
00:00:18,470 --> 00:00:16,000
nasa administrator charles bolden

4
00:00:20,790 --> 00:00:18,480
addressed celebrants at the 44th annual

5
00:00:23,590 --> 00:00:20,800
martin luther king jr commemorative

6
00:00:26,470 --> 00:00:23,600
service held at ebenezer baptist church

7
00:00:29,189 --> 00:00:26,480
in atlanta golden who has family ties in

8
00:00:31,349 --> 00:00:29,199
atlanta says the opportunity was an

9
00:00:34,389 --> 00:00:31,359
honor as i was growing up although i

10
00:00:36,790 --> 00:00:34,399
never met dr king in person my family

11
00:00:38,069 --> 00:00:36,800
members in atlanta who who knew him in

12
00:00:39,910 --> 00:00:38,079
the neighborhood and everything they

13
00:00:42,229 --> 00:00:39,920

always talked about him and what a what

14

00:00:44,549 --> 00:00:42,239

an inspirational person he was and as i

15

00:00:46,950 --> 00:00:44,559

grew up he meant a lot to me i you know

16

00:00:48,869 --> 00:00:46,960

i i read about him and i listened to him

17

00:00:50,709 --> 00:00:48,879

on television and i think i was moved

18

00:00:53,590 --> 00:00:50,719

every time i heard him speak the theme

19

00:00:55,350 --> 00:00:53,600

of this year's celebration was remember

20

00:01:03,590 --> 00:00:55,360

celebrate act

21

00:01:07,350 --> 00:01:05,109

the next three crew members of the

22

00:01:08,789 --> 00:01:07,360

international space station talked about

23

00:01:11,109 --> 00:01:08,799

their upcoming mission aboard the

24

00:01:12,789 --> 00:01:11,119

orbiting laboratory in a news conference

25

00:01:14,310 --> 00:01:12,799

from the johnson space center really the

26

00:01:16,550 --> 00:01:14,320

main reason that we're up there is to

27

00:01:19,030 --> 00:01:16,560

conduct science and now that we are at

28

00:01:22,710 --> 00:01:19,040

station complete our goal is to get the

29

00:01:25,109 --> 00:01:22,720

35 hours a week of utilization or time

30

00:01:26,710 --> 00:01:25,119

working on experiments so we plan on

31

00:01:28,870 --> 00:01:26,720

putting a lot of time into that that's

32

00:01:31,830 --> 00:01:28,880

really the main focus i'll be up there

33

00:01:33,510 --> 00:01:31,840

with don pettit who is just phenomenal

34

00:01:35,830 --> 00:01:33,520

he's a genius and he has a lot of great

35

00:01:37,670 --> 00:01:35,840

ideas so i'm hoping i can piggyback on

36

00:01:39,109 --> 00:01:37,680

some of the things that he's doing and

37

00:01:40,630 --> 00:01:39,119

bring those back to the students that

38

00:01:43,429 --> 00:01:40,640

may be watching

39

00:01:45,990 --> 00:01:43,439

nasa astronaut joe acaba and russian

40

00:01:48,389 --> 00:01:46,000

cosmonauts gennady padalka and sergey

41

00:01:51,350 --> 00:01:48,399

revin will continue to train ahead of

42

00:01:53,429 --> 00:01:51,360

their scheduled march 29th launch aboard

43

00:01:55,670 --> 00:01:53,439

a soyuz spacecraft from the baikonur

44

00:01:58,069 --> 00:01:55,680

cosmodrome in kazakhstan

45

00:01:59,910 --> 00:01:58,079

acaba padalka and revin

46

00:02:03,510 --> 00:01:59,920

are three of the six crew members

47

00:02:05,749 --> 00:02:03,520

comprising expeditions 31 and 32.

48

00:02:08,309 --> 00:02:05,759

aboard the station they'll join nasa

49

00:02:11,510 --> 00:02:08,319

astronaut don petit russian cosmonaut

50

00:02:15,670 --> 00:02:11,520

oleg kononenko and european space agency

51
00:02:19,670 --> 00:02:17,510
goddard space flight center financial

52
00:02:21,670 --> 00:02:19,680
manager matthew ritzko was recently

53
00:02:23,430 --> 00:02:21,680
treated to a white house visit where he

54
00:02:25,830 --> 00:02:23,440
was personally congratulated by

55
00:02:29,190 --> 00:02:25,840
president obama as the winner of the

56
00:02:32,790 --> 00:02:29,200
2011 presidential securing americans

57
00:02:34,869 --> 00:02:32,800
value and efficiency or save award

58
00:02:37,190 --> 00:02:34,879
implementation has already begun of

59
00:02:39,830 --> 00:02:37,200
ritzko's ritsco's money-saving idea to

60
00:02:42,070 --> 00:02:39,840
establish a nasa lending library for

61
00:02:43,110 --> 00:02:42,080
sharing specialized tools across the

62
00:02:45,509 --> 00:02:43,120
agency

63
00:02:47,270 --> 00:02:45,519

ritzko says the award was special but

64

00:02:49,509 --> 00:02:47,280

his visit with the president was

65

00:02:51,910 --> 00:02:49,519

priceless for me making the visit to the

66

00:02:53,509 --> 00:02:51,920

white house was very humbling and it was

67

00:02:55,190 --> 00:02:53,519

something i always carry with me for the

68

00:02:57,190 --> 00:02:55,200

rest of my life i don't think many

69

00:02:58,710 --> 00:02:57,200

people have the opportunity to be in

70

00:03:00,550 --> 00:02:58,720

that kind of a situation where you're

71

00:03:02,070 --> 00:03:00,560

one-on-one with the president in the oval

72

00:03:03,830 --> 00:03:02,080

office i think it's something that's

73

00:03:06,070 --> 00:03:03,840

going to be extremely memorable for me

74

00:03:08,869 --> 00:03:06,080

and my family for a highlight of my

75

00:03:13,430 --> 00:03:11,509

exciting new findings about everything

76
00:03:16,070 --> 00:03:13,440
from the most remote galaxies in the

77
00:03:18,149 --> 00:03:16,080
universe to stars and planets right here

78
00:03:19,990 --> 00:03:18,159
in our cosmic neighborhood were

79
00:03:22,710 --> 00:03:20,000
announced at the annual meeting of the

80
00:03:24,789 --> 00:03:22,720
american astronomical society held this

81
00:03:27,430 --> 00:03:24,799
year in austin texas

82
00:03:29,670 --> 00:03:27,440
among the findings the discovery by

83
00:03:32,070 --> 00:03:29,680
nasa's hubble space telescope of the

84
00:03:33,110 --> 00:03:32,080
farthest protocluster of galaxies ever

85
00:03:35,430 --> 00:03:33,120
seen

86
00:03:38,869 --> 00:03:35,440
the cluster of five tiny galaxies is

87
00:03:41,190 --> 00:03:38,879
about 13.1 billion light years away and

88
00:03:42,149 --> 00:03:41,200

was seen as it appeared 13 billion years

89

00:03:44,229 --> 00:03:42,159

ago

90

00:03:47,190 --> 00:03:44,239

the discovery was made using hubble's

91

00:03:49,990 --> 00:03:47,200

wide field camera 3. these new images

92

00:03:52,070 --> 00:03:50,000

were captured by nasa's dawn spacecraft

93

00:03:53,830 --> 00:03:52,080

as it continues to orbit the rocky

94

00:03:56,470 --> 00:03:53,840

asteroid vesta

95

00:03:58,789 --> 00:03:56,480

and collaboration between nasa's chandra

96

00:04:01,030 --> 00:03:58,799

x-ray observatory and the national

97

00:04:04,070 --> 00:04:01,040

science foundation-funded atacama

98

00:04:06,470 --> 00:04:04,080

cosmology telescope in chile has yielded

99

00:04:09,110 --> 00:04:06,480

the discovery of the largest galaxy

100

00:04:11,509 --> 00:04:09,120

cluster seen in the distant universe

101
00:04:14,710 --> 00:04:11,519
located more than 7 billion light years

102
00:04:17,349 --> 00:04:14,720
from earth the elgordo galaxy is hotter

103
00:04:19,430 --> 00:04:17,359
more massive and produces more x-rays

104
00:04:22,069 --> 00:04:19,440
than any other known cluster

105
00:04:24,150 --> 00:04:22,079
this winter gathering of the aas often

106
00:04:26,870 --> 00:04:24,160
called the super bowl of astronomy

107
00:04:29,830 --> 00:04:26,880
attracts thousands of astrophysicists

108
00:04:36,550 --> 00:04:29,840
educators students and journalists from

109
00:04:41,030 --> 00:04:38,790
another of nasa's space shuttle main

110
00:04:44,550 --> 00:04:41,040
engines is headed to stennis space

111
00:04:46,390 --> 00:04:44,560
center this ssme is the third of 15

112
00:04:47,909 --> 00:04:46,400
being sent from the kennedy space center

113
00:04:51,430 --> 00:04:47,919

to stennis

114

00:04:53,350 --> 00:04:51,440

the rs-25d engines which helped power

115

00:04:56,070 --> 00:04:53,360

space shuttles to orbit during the

116

00:04:58,870 --> 00:04:56,080

30-year shuttle program will be stored

117

00:05:01,110 --> 00:04:58,880

at stennis for future use on nasa's new

118

00:05:04,230 --> 00:05:01,120

heavy lift rocket the space launch

119

00:05:07,430 --> 00:05:04,240

system the sls will carry the new orion

120

00:05:10,710 --> 00:05:07,440

spacecraft cargo equipment and science

121

00:05:13,029 --> 00:05:10,720

experiments to space providing a safe

122

00:05:14,790 --> 00:05:13,039

affordable and sustainable means of

123

00:05:18,550 --> 00:05:14,800

reaching asteroids and other

124

00:05:20,390 --> 00:05:18,560

destinations in the solar system

125

00:05:21,749 --> 00:05:20,400

with the slides on the screen and how

126

00:05:23,749 --> 00:05:21,759

they relate

127

00:05:25,670 --> 00:05:23,759

bill gerstenmaier

128

00:05:28,390 --> 00:05:25,680

associate administrator for human

129

00:05:29,990 --> 00:05:28,400

exploration and operations was honored

130

00:05:32,310 --> 00:05:30,000

by the american institute for

131

00:05:34,550 --> 00:05:32,320

aeronautics and astronautics as the

132

00:05:36,150 --> 00:05:34,560

presenter of the von carmen lectureship

133

00:05:38,710 --> 00:05:36,160

in astronautics

134

00:05:41,590 --> 00:05:38,720

in his lecture to the aiaa's 50th

135

00:05:43,590 --> 00:05:41,600

aerospace sciences meeting in nashville

136

00:05:46,390 --> 00:05:43,600

gerstenmaier touted the international

137

00:05:49,270 --> 00:05:46,400

space station as a global outpost in

138

00:05:51,749 --> 00:05:49,280

space a platform for discovery

139

00:05:54,150 --> 00:05:51,759

the annual von carmen lectureship award

140

00:05:57,430 --> 00:05:54,160

named for astronautics pioneer theodore

141

00:05:59,189 --> 00:05:57,440

von carmen is given by the aiaa to an

142

00:06:01,270 --> 00:05:59,199

individual who has distinguished

143

00:06:04,629 --> 00:06:01,280

themselves technically in the field of

144

00:06:09,510 --> 00:06:07,270

nasa's james webb space telescope has

145

00:06:12,790 --> 00:06:09,520

reached another major milestone in its

146

00:06:15,029 --> 00:06:12,800

development the last six out of 18 total

147

00:06:17,350 --> 00:06:15,039

primary mirror segments and the

148

00:06:19,909 --> 00:06:17,360

secondary mirror that will fly on the

149

00:06:21,670 --> 00:06:19,919

webb telescope have passed their final

150

00:06:24,070 --> 00:06:21,680

cold test

151
00:06:26,790 --> 00:06:24,080
completed at the x-ray and cryogenic

152
00:06:30,390 --> 00:06:26,800
facility at nasa's marshall space flight

153
00:06:33,990 --> 00:06:30,400
center a 10-week test series chilled the

154
00:06:35,670 --> 00:06:34,000
primary mirror segments to minus 379

155
00:06:38,550 --> 00:06:35,680
degrees fahrenheit

156
00:06:40,870 --> 00:06:38,560
during two test cycles telescope

157
00:06:43,510 --> 00:06:40,880
engineers took extremely detailed

158
00:06:46,150 --> 00:06:43,520
measurements of how the mirror's shape

159
00:06:48,790 --> 00:06:46,160
changes as it cools cryo testing

160
00:06:51,029 --> 00:06:48,800
verifies that the mirror will respond as

161
00:06:53,350 --> 00:06:51,039
expected to the extreme temperatures of

162
00:06:55,430 --> 00:06:53,360
space this test campaign has spanned

163
00:06:58,390 --> 00:06:55,440

over three and a half years and it has

164

00:07:00,230 --> 00:06:58,400

been a tremendous effort for the team

165

00:07:01,749 --> 00:07:00,240

to work through all of the difficulties

166

00:07:04,550 --> 00:07:01,759

associated with such a long and

167

00:07:06,790 --> 00:07:04,560

ambitious schedule

168

00:07:08,870 --> 00:07:06,800

tele-operated period starts teams

169

00:07:11,670 --> 00:07:08,880

command their robots to score as quickly

170

00:07:13,670 --> 00:07:11,680

as they can the 2012 first robotics

171

00:07:15,589 --> 00:07:13,680

season had its national kickoff at

172

00:07:19,749 --> 00:07:15,599

southern new hampshire university in

173

00:07:25,270 --> 00:07:22,870

first for inspiration and recognition of

174

00:07:27,510 --> 00:07:25,280

science and technology is a robotics

175

00:07:30,150 --> 00:07:27,520

building competition during which teams

176
00:07:32,710 --> 00:07:30,160
made up of some 50 000 u.s high school

177
00:07:34,870 --> 00:07:32,720
students and their professional mentors

178
00:07:37,189 --> 00:07:34,880
strive to meet a specific design

179
00:07:39,430 --> 00:07:37,199
challenge

180
00:07:42,070 --> 00:07:39,440
teams around the country attended local

181
00:07:47,589 --> 00:07:42,080
events to hear what their task is this

182
00:07:51,990 --> 00:07:49,670
for their participation in the 2012

183
00:07:54,150 --> 00:07:52,000
first robotics competition high school

184
00:07:55,830 --> 00:07:54,160
students from maryland and virginia met

185
00:07:57,749 --> 00:07:55,840
at walt's flight facilities visitor

186
00:07:59,510 --> 00:07:57,759
center to learn about this year's robot

187
00:08:01,270 --> 00:07:59,520
challenge i think that the game is going

188
00:08:02,869 --> 00:08:01,280

to be really fun and challenging this

189

00:08:04,469 --> 00:08:02,879

year i think it's going to push us to a

190

00:08:06,550 --> 00:08:04,479

whole new level it's going to make us

191

00:08:07,990 --> 00:08:06,560

think outside the box more i think it's

192

00:08:10,070 --> 00:08:08,000

amazing i think every year it gets

193

00:08:11,830 --> 00:08:10,080

harder and it challenges the students

194

00:08:13,749 --> 00:08:11,840

more and more and i love that i love

195

00:08:16,390 --> 00:08:13,759

what they come up with first competition

196

00:08:18,070 --> 00:08:16,400

is not only about computers and robots

197

00:08:19,670 --> 00:08:18,080

it's also about learning to work with

198

00:08:21,670 --> 00:08:19,680

others in a team environment in the

199

00:08:23,830 --> 00:08:21,680

spirit of cooperation they're all

200

00:08:25,990 --> 00:08:23,840

expected to work together and help each

201
00:08:27,029 --> 00:08:26,000
other find find the solutions to

202
00:08:31,589 --> 00:08:27,039
problems

203
00:08:33,190 --> 00:08:31,599
encounter it doesn't matter if you're

204
00:08:35,110 --> 00:08:33,200
playing a game you know with them or

205
00:08:36,790 --> 00:08:35,120
against them it's still you know you're

206
00:08:38,469 --> 00:08:36,800
all hanging out having a good time and

207
00:08:40,389 --> 00:08:38,479
not really getting mad at each other for

208
00:08:42,230 --> 00:08:40,399
anything several local teams will build

209
00:08:44,389 --> 00:08:42,240
and use robots to compete against other

210
00:08:46,550 --> 00:08:44,399
teams from the mid-atlantic region with

211
00:08:50,389 --> 00:08:46,560
the winners moving to the nationals this

212
00:08:55,269 --> 00:08:53,110
it's high energy here in cleveland ohio

213
00:08:57,590 --> 00:08:55,279

over 100 high school students received

214

00:08:59,990 --> 00:08:57,600

their assignment and picked up their kit

215

00:09:03,110 --> 00:09:00,000

of parts a common set of parts to build

216

00:09:05,190 --> 00:09:03,120

a robot in only six weeks in preparation

217

00:09:08,630 --> 00:09:05,200

for the upcoming high-tech first

218

00:09:11,670 --> 00:09:08,640

robotics competition march 22nd through

219

00:09:13,829 --> 00:09:11,680

24th at the wolstein center in cleveland

220

00:09:15,910 --> 00:09:13,839

ohio really the whole purpose is to get

221

00:09:19,110 --> 00:09:15,920

kids at high school level

222

00:09:20,870 --> 00:09:19,120

and and other ages involved and inspired

223

00:09:22,150 --> 00:09:20,880

to do science and technology you don't

224

00:09:23,190 --> 00:09:22,160

have to be a rocket scientist or

225

00:09:25,670 --> 00:09:23,200

something like that to be inside

226

00:09:27,910 --> 00:09:25,680

robotics anybody can be antibiotics if

227

00:09:30,550 --> 00:09:27,920

you like working hard and trying new

228

00:09:32,070 --> 00:09:30,560

things don't be intimidated if you love

229

00:09:33,670 --> 00:09:32,080

math and science or if you have any

230

00:09:35,190 --> 00:09:33,680

interest in it at all this isn't an

231

00:09:38,389 --> 00:09:35,200

opportunity you should miss and there's

232

00:09:40,310 --> 00:09:38,399

nothing else like it out there

233

00:09:43,030 --> 00:09:40,320

12 high school student teams from

234

00:09:45,190 --> 00:09:43,040

alabama and tennessee received materials

235

00:09:47,430 --> 00:09:45,200

for building their robots during the

236

00:09:49,829 --> 00:09:47,440

first kickoff at calhoun community

237

00:09:52,310 --> 00:09:49,839

college in decatur alabama

238

00:09:55,269 --> 00:09:52,320

each team was given the same kit that

239

00:09:58,150 --> 00:09:55,279

includes motors batteries a control

240

00:10:00,790 --> 00:09:58,160

system a small personal computer and a

241

00:10:02,150 --> 00:10:00,800

mix of automation components but no

242

00:10:04,230 --> 00:10:02,160

instructions

243

00:10:06,069 --> 00:10:04,240

the teams were shown the new rebound

244

00:10:09,030 --> 00:10:06,079

rumble game playing field for which

245

00:10:11,750 --> 00:10:09,040

they'll design build program and test

246

00:10:13,829 --> 00:10:11,760

their robots all within six weeks

247

00:10:17,190 --> 00:10:13,839

their first regional competition will

248

00:10:22,069 --> 00:10:19,110

i'm very pleased to

249

00:10:23,430 --> 00:10:22,079

present to stennis space center this

250

00:10:25,910 --> 00:10:23,440

plaque

251
00:10:27,190 --> 00:10:25,920
attesting to the fact that you are

252
00:10:29,350 --> 00:10:27,200
indeed

253
00:10:31,110 --> 00:10:29,360
one of the very best places to work

254
00:10:33,030 --> 00:10:31,120
representatives of the partnership for

255
00:10:35,829 --> 00:10:33,040
public service visited southern

256
00:10:38,310 --> 00:10:35,839
mississippi to present director patrick

257
00:10:40,550 --> 00:10:38,320
shireman with an award citing stennis

258
00:10:42,550 --> 00:10:40,560
space center as one of the best places

259
00:10:45,030 --> 00:10:42,560
to work in the federal government a

260
00:10:47,829 --> 00:10:45,040
recent survey released by the non-profit

261
00:10:50,310 --> 00:10:47,839
nonpartisan organization once again

262
00:10:52,230 --> 00:10:50,320
placed stennis at number five of the

263
00:10:55,269 --> 00:10:52,240

best government facilities to be

264

00:10:58,310 --> 00:10:55,279

employed and among nasa's ten centers

265

00:11:03,670 --> 00:11:00,949

former nasa astronaut mae jemison the

266

00:11:06,150 --> 00:11:03,680

first african-american woman in space

267

00:11:08,790 --> 00:11:06,160

recently led a hollywood delegation on a

268

00:11:11,829 --> 00:11:08,800

visit to the johnson space center

269

00:11:14,310 --> 00:11:11,839

actors terence howard nate parker and

270

00:11:16,790 --> 00:11:14,320

david oyelawa were accompanied by

271

00:11:19,509 --> 00:11:16,800

director anthony hemingway who were in

272

00:11:24,470 --> 00:11:19,519

houston to promote their new movie red

273

00:11:29,350 --> 00:11:27,030

this film celebrates the heroic exploits

274

00:11:31,670 --> 00:11:29,360

of the tuskegee airmen america's

275

00:11:32,710 --> 00:11:31,680

all-black contingent of world war ii

276
00:11:34,870 --> 00:11:32,720
pilots

277
00:11:37,110 --> 00:11:34,880
the group met several astronauts and

278
00:11:47,110 --> 00:11:37,120
toured several of jsc's astronaut

279
00:11:53,750 --> 00:11:51,110
six years ago on january 15 2006

280
00:11:56,790 --> 00:11:53,760
the return capsule from nasa's stardust

281
00:11:59,509 --> 00:11:56,800
spacecraft landed in the utah desert

282
00:12:01,910 --> 00:11:59,519
completing its 2.9 billion mile

283
00:12:05,030 --> 00:12:01,920
round-trip journey to collect dust

284
00:12:06,790 --> 00:12:05,040
samples from the tail of comet vilda ii

285
00:12:08,629 --> 00:12:06,800
research done on these particles

286
00:12:11,910 --> 00:12:08,639
gathered from the capsule's aerial gel

287
00:12:14,310 --> 00:12:11,920
collector revealed surprises including

288
00:12:17,110 --> 00:12:14,320

the sample's closer resemblance to a

289

00:12:18,790 --> 00:12:17,120

meteorite from an asteroid than that of

290

00:12:21,269 --> 00:12:18,800

an ancient comet

291

00:12:23,350 --> 00:12:21,279

stardust is the first spacecraft to make

292

00:12:25,509 --> 00:12:23,360

it back to earth with cometary dust

293

00:12:27,829 --> 00:12:25,519

particles in tow

294

00:12:30,389 --> 00:12:27,839

and that's this week at nasa